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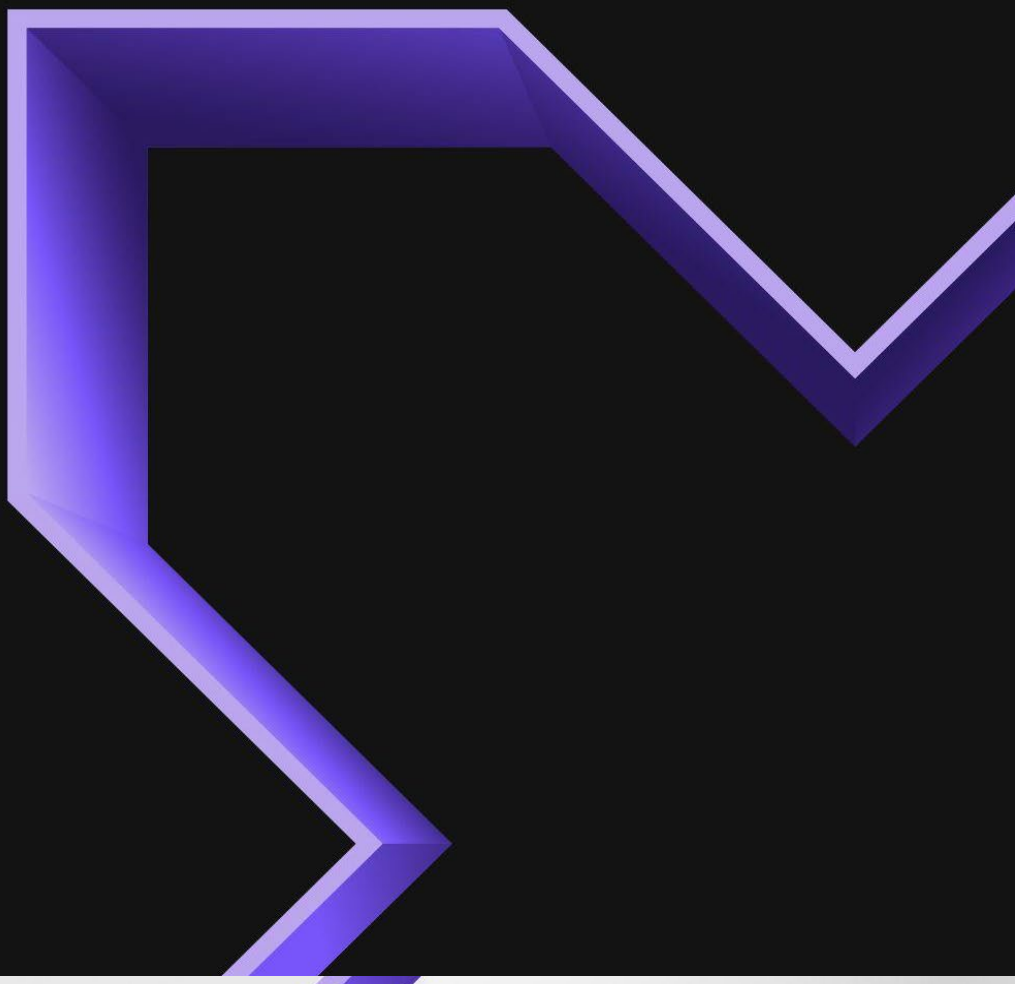
Nutanix Professional Services

Service Descriptions



NUTANIX

Services by Product

Nutanix Cloud Infrastructure (NCI) Services

NUTANIX

NCI Bundle Basic Edition

Product Code: CNS-NCI-B-BAS-ONP

At-a-Glance

Stage: Design, Deploy, and Migrate

The Nutanix Cloud Infrastructure (NCI) Bundle Basic Edition is an all-in-one solution empowers IT teams to design, deploy, and migrate on-premises NCI clusters with ease. Whether you're modernizing your infrastructure or moving virtualization workloads, NCI Basic Edition delivers a seamless path to the cloud—fast, flexible, and future-ready.

Service Scope

A series of design workshops is led by experienced consultants with deep technical expertise to define solution requirements and desired outcomes. These sessions involve close collaboration with key customer stakeholders, including architecture, virtualization, and networking teams.

Following the workshops, the consultant develops two core deliverables:

- Nutanix Configuration Workbook – capturing environment-specific configuration details
- Design Document – outlining the conceptual, logical, and physical design of the solution

The consultant then deploys the on-premises Nutanix Cloud Infrastructure (NCI) clusters in alignment with Nutanix recommended practices. Upon completion, the final configuration is documented in:

- A customized As-Built Guide
- An updated Configuration Workbook

To support virtual machine (VM) migration, the consultant conducts an enablement session for Nutanix Move. After the session, Nutanix Move is deployed and configured, including a source and destination VM pair, to validate and streamline the migration process.

This service includes the following activities:

Infrastructure Design

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
- Develop NCI architecture, including interoperability, security, and scalability for future growth
- Define integration with Active Directory (AD)/lightweight directory access protocol (LDAP) and IP address management (IPAM)/ domain name system (DNS) environments
- Develop on-premises NCI cluster design
- Design virtual networking, including integration with the physical network
- Design virtual storage, including container layout and associated storage optimization features
- Validate cluster sizing based on workload details provided by the customer
- Design the management plane and operations dependencies
- Develop a plan for system functional validation testing

- Design security, including data-at-rest encryption, SSL certificate, password complexity, and syslog

Infrastructure Deployment

- Deploy and configure NCI cluster, including recommended firmware (via Nutanix Life Cycle Manager (LCM)) and Nutanix Acropolis operating system (AOS)
- Deploy and configure the hypervisor cluster on the deployed NCI cluster
  - Configure LCM for automatic updates (online, dark site bundle, or via integration into an existing dark site LCM web server)
- Configure layer 2 virtual networking on hypervisor hosts
  - Configure hypervisor virtual switches
- Test and validate the deployed clusters
- Optional services:
  - Deploy and integrate Prism Central
  - Enable local key management service (KMS) for encryption
  - Choose one of the following optional services:
    - Deploy and configure a dark site LCM web server running either IIS (Windows) or Apache (supported Linux OS) on the customer-provided VM image
    - Harden Nutanix Controller VM and AHV according to the Nutanix Security Guide
    - Install and configure non-factory-installed supported hardware (RAM, LAN, SSD, HDD, etc.)
    - Install and configure hardware and drivers for the GPU, including installing host rivers, deploying the GPU license server and configuring a single test VM for vGPU

FastTrack for Nutanix Move

- Conduct a Nutanix Move enablement session
  - Review integration among AOS and hypervisors
  - Provide a Nutanix Move features and functionality overview
- Deploy the Nutanix Move appliance
  - Configure Nutanix Move to connect to the VM source environment
  - Configure Nutanix Move to connect to the target cluster
  - Demonstrate migration of VMs

Site Design Topology

Single Site

Single-site design in a single physical site.

Multisite DR

DR active/active, active/passive, or hub-spoke design configuration

- Gather recovery point objective (RPO) and recovery point objective (RTO) requirements for workloads, including DR and replication considerations

Limitations

Infrastructure Design

- Limited to general virtualization design. Workload-specific designs are available that include on-premises NCI Design, including:
  - Database Design Workshop
  - EUC Broker Design Workshop.
  - AI/ML Design Workshop
- Excludes detailed migration planning. Detailed planning, including migration wave planning, is available in the Virtual Machine Migration Workshop.

Infrastructure Deployment

- Excludes deployment of NUS, NCI Flow Network Security, or NCI Advanced Replication
- Excludes deployment of EUC, AI/ML, Kubernetes, or database workloads
- Excludes integration into an external KMS
- Excludes hardening of 3rd-party components

FastTrack for Nutanix Move

- Connect to a single existing supported target cluster
- Connect to a single existing supported VM source environment
- Migration limited to 5 non-production VMs
- Excludes in-guest VM reconfiguration
- Nutanix Move must support the OS of the source and target VMs
- Excludes the migration of business-critical databases and EUC workloads due to performance and technical risk to the workloads

Note: If migrating databases, see the Database Migration offer. If migrating EUC workloads, see the EUC Migration offers.

Single Site Design Topology

- Design is limited to a single production environment at one physical site,
- For each quantity purchased, deployment is limited to 1 node. A maximum of 64 nodes distributed in up to 4 on-premises NCI clusters of a single hypervisor type at a single physical site.

Multisite DR Design Topology

- Design is limited to a single production environment spanning multiple physical sites
- Design is limited to 2 distinct site patterns, though multiple instances of each pattern can be deployed (common for hub-spoke or branch office architectures)
- For each quantity purchased, deployment is limited to 1 node. A maximum of 64 nodes distributed in up to 4 on-premises NCI clusters of a single hypervisor type at a single physical site. The quantity of nodes will be deployed per physical site, with a maximum of 2 physical sites.

Supported Source Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V
- Microsoft Azure
- Amazon Web Service EC2

Supported Target Hypervisors

- Nutanix AHV

Prerequisites

- Hardware that meets all product requirements for the selected hypervisor on NCI.

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Completed Pre-Install Questionnaire
- Fully supported and functional source environment

  Note: For information on the requirements for using Nutanix Move, see the *Move User Guide* on the Nutanix Support Portal.

Related Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI

Delivered Artifacts

- Configuration Workbook
- Design Document (Standard Documentation only)
- Test Plan
- As-built Guide

Duration

Site Topology/ Documentation Type	Basic (varies based on the number of nodes purchased)
Single Site Workshop Documentation	Typically up to 7 days
Single Site Standard Documentation	Typically up to 10 days
Multisite DR Workshop Documentation	Typically up to 14 days

Site Topology/ Documentation Type	Basic (varies based on the number of nodes purchased)
Multisite DR Workshop Documentation	Typically up to 18 days

Delivery Type

Delivery Type	Basic
Virtual	• Virtual Workshop • Virtual Documentation • Virtual Deployment • Virtual Migration
In-person	• In-person Workshop • Virtual Documentation • Virtual Deployment • Virtual Migration

Related Products

- Nutanix Cloud Infrastructure (NCI)

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NCP Migration and Operations Workshop

Product Code: CNS-NCP-WRK-MGO

At-a-Glance

Stage: Plan

The Nutanix Cloud Platform (NCP) Migration and Operations Workshop is not just about theoretical insights: It provides practical guidance that equips IT teams to successfully migrate to NCP. This workshop is particularly beneficial for the Plan stage of a hybrid multicloud journey and is well suited for complex solutions, including software-defined networking, automation, databases, and end user computing.

Service Scope

Delivered by highly skilled consultants with solid domain expertise and rich experience, the workshop begins with a discovery session to understand the customer's unique operating environment and required outcomes. Critical areas identified during the discovery session are then addressed in a customized workshop.

Upon completion of the customized workshop, IT teams will:

- Know the areas of consideration vital to achieving a successful migration to NCP
- Understand and know how to resolve challenges that could stall migrations
- Plan and drive an optimized, efficient transition to new technologies and operating models

Potential workshop topics include but are not limited to the following:

Nutanix Cloud Infrastructure (NCI)

- Migrate workloads from VMware vSphere to Nutanix AHV
- Migrate business-critical applications to Nutanix AHV
- Explore data protection and disaster recovery (DR) solutions
- Integrate 3rd-party solutions with NCI
- Execute a full-stack transformation
- Manage environmental and operational considerations
- Operationalize and automate infrastructure and workload lifecycle
- Understand operational considerations when re-platforming

Software-defined Networking

- Migrate from VMware NSX to Nutanix Flow Virtual Networking
- Integrate Cisco Appliance Centric Infrastructure (ACI) into Nutanix AHV

Automation

- Migrate from VMware Aria (VRA/VRO) to Nutanix Cloud Manager (NCM) Self-Service
- Integrate existing Ansible/Terraform deployments into Nutanix AHV
- Migrate from VMware Tanzu to Nutanix-based Container solutions

- Migrate from RedHat OpenShift on VMware ESXi to RedHat OpenShift on Nutanix AHV

Databases

- Migrate existing databases to Nutanix AHV
- Operationalize and automate database lifecycle with Nutanix Database Services (NDB)
- Migrate NDB from VMware ESXi to Nutanix AHV

End User Computing (EUC)

- Migrate Citrix on VMware ESXi to Nutanix AHV
- Migrate Omnissa Horizon to Citrix Virtual Apps and Desktops (CVAD) or Citrix Desktop-as-a-Service (DaaS)
- Migrate EUC users and their data to Nutanix Unified Storage (NUS) Files
- Explore EUC data protection and disaster recovery for EUC multisite solutions

Limitations

- Excludes migration

Supported Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V

Prerequisites

- Knowledge of current operations and existing product suite
- Understanding of future vision for the environment
- Completed discovery session and worksheet

Required Product Licenses

- None

Delivered Artifacts

- High-level Summary Presentation

Duration

Typically up to 4 days

Related Products

- Nutanix Cloud Platform (NCP)
- Nutanix Cloud Infrastructure (NCI)

- Nutanix Cloud Clusters (NC2)
- Nutanix Cloud Manager (NCM)
- Nutanix Database Services (NDB)
- End User Computing (EUC)

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Infrastructure Design Workshop

Product Code: CNS-INF-A-WRK-DSGN

At-a-Glance

Stage: Design

The Nutanix Infrastructure Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for on-premises Nutanix Cloud Infrastructure (NCI) clusters and Nutanix Cloud Clusters (NC2). It covers various aspects such as scalability, functionality, integration, and operational needs. This workshop is beneficial during the Design stage of a hybrid multicloud journey, especially for complex solutions that involve third-party applications and automation.

Related Services

- Infrastructure Deployment
- NC2 Deployment

Service Scope

Highly Skilled consultants with specialized domain knowledge and proven industry experience lead a series of design workshops to clearly identify solution requirements and desired outcomes. These workshops require collaboration with key customer stakeholders from architecture, virtualization, and networking teams. After the workshops, the consultant develops a Nutanix configuration workbook and Design document that addresses conceptual, logical, and physical solution design elements.

Basic Edition

For customers who want a basic Infrastructure design for on-premises NCI clusters.

The Basic Edition includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
- Develop NCI architecture, including interoperability, security, and scalability for future growth
- Define integration with Active Directory (AD)/LDAP and IPAM/DNS environments
- Develop on-premises NCI cluster design
- Design virtual networking, including integration with the physical network
- Design virtual storage, including container layout and associated storage optimization features
- Validate cluster sizing based on workload details provided by the customer
- Design management plane and operations dependencies
- Develop a plan for system functional validation testing
- Design security, including data-at-rest encryption, SSL certificate, password complexity, and syslog

Essential Edition

For customers who want essential Infrastructure design for on-premises NCI clusters or NC2.

The Essential Edition includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
- Develop NCI or NC2 architecture, including interoperability, security, and scalability for future growth
- Define integration with Active Directory (AD)/lightweight directory access protocol (LDAP) and IP address management (IPAM)/domain name service (DNS) environments
- Develop on-premises NCI or NC2 cluster design
- Design virtual networking, including integration with the physical network
- Design public cloud platform connectivity, including mapping of network constructs from on-premises NCI to public cloud, as required
- Design public cloud platform resource access and usage (NC2 only)
- Design virtual storage, including container layout and associated storage optimization features
- Validate cluster sizing based on workload details provided by the customer
- Plan Controller Virtual Machine (CVM) and AHV security hardening and compliance as per the *Nutanix Security Operations Guide*
- Design management plane and operations dependencies, including Multicloud Manager (MCM) for NC2
- Develop a plan for system functional validation testing
- Design security, including data-at-rest encryption, SSL certificate, password complexity, and syslog

Advanced Edition

For customers looking for a more comprehensive design focused on migrating existing workloads and storage.

The Advanced Edition includes the following activities:

- Everything included in the Essential Edition
- Assess the current state of virtualization elements included in the design
- Assess datacenter infrastructure and rack design
- Plan for VM backup and data protection
- Design to support the migration of existing workloads and storage into the new environment
  - Review the existing environment at a high level to support sizing
  - Develop high-level migration methodology
- Design role-based access control (RBAC) and Nutanix categories/tagging
- Design security and required cloud access controls

Optional Activities for the Advanced Edition

- Design for Nutanix Flow Virtual Networking VPC
- Design for Nutanix Flow Network Security Microsegmentation

Site Design Topology

Each edition supports a single site or multisite disaster recovery (DR) topology design.

Basic Edition

- **Single Site** – Single site design in a single physical site.
- **Multisite DR** – DR active/active, active/passive, or hub-spoke design configuration
  - Gather recovery point objective (RPO) and recovery point objective (RTO) requirements for workloads, including DR and replication considerations

Essential and Advanced Edition

- **Single Site** – Single site design in a single physical site, public cloud region, or resource location
- **Multisite DR** – DR active/active, active/passive, or hub-spoke design configuration
  - Including Flow Virtual Networking VPC configurations spanning multiple locations (Advanced Edition only)
  - Gather recovery point objective (RPO) and recovery point objective (RTO) requirements for workloads, including DR and replication considerations

Limitations

- Limited to general virtualization. Workload-specific designs are available that include the NCI Design, including:
  - Database Design Workshop
  - EUC Broker Design Workshop.
  - AI/ML Design Workshop
- Excludes detailed migration planning. Detailed planning, including migration wave planning, is available as part of the Virtual Machine Migration Workshop.
- Excludes design for Cisco Intersight and Cisco UCS Fabric Interconnects

Basic Edition

Single Site Design Topology

- For each quantity purchased, design is limited to a single production environment at one physical site,

Multisite DR Design Topology

- For each quantity purchased, design is limited to a single production environment spanning multiple physical sites
- Design is limited to 2 distinct site patterns, though multiple instances of each pattern can be deployed (common for hub-spoke or branch office architectures)

Essential and Advanced Editions

Single Site Design Topology

- For each quantity purchased, design is limited to a single production environment at one physical site, public cloud region, availability zone, or resource location for a single supported hypervisor

Multisite DR Design Topology

- For each quantity purchased, design is limited to a single production environment spanning multiple physical sites, public cloud regions, availability zones, or resource locations
- Design is limited to 2 distinct site patterns, though multiple instances of each pattern can be deployed (common for hub-spoke or branch office architectures)

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

> **Note**: Support for Microsoft Hyper-V requires a custom SOW.

Prerequisites

- None

Related Product Licenses

- None

Delivered Artifacts

- Configuration Workbook
- Design Documentation (Standard Documentation Only)
- Deployment Readiness Checklist (NC2 only)

Duration

	Basic	Essential	Advanced
Single Site	Typically up to 6 days	Typically up to 7 Days	Typically up to 10 days
Multisite DR	Typically up to 9 days	Typically up to 10 days	Typically up to 15 days

Delivery Type

Delivery Type	Basic	Essential	Advanced
Virtual	Virtual Workshop Virtual Documentation	Workshop Documentation	Workshop Documentation
In-person	In-person Workshop Virtual Documentation	In-person Workshop Virtual Documentation	In-person Workshop Virtual Documentation

Related Products

- Nutanix Cloud Infrastructure (NCI)

- Nutanix Cloud Clusters (NC2)

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NCI Design Workshop

Product Code: CNS-INF-A-WRK-DES

At-a-Glance

Stage: Design

The Nutanix Cloud Infrastructure (NCI) Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for on-premises NCI clusters. It covers various aspects such as scalability, functionality, integration, and operational needs. This workshop is beneficial during the Design stage of a hybrid multicloud journey, especially for complex solutions that involve third-party applications and automation.

Related Services

- NCI Cluster Deployment or Expansion

Service Scope

A series of design workshops is delivered by highly skilled consultants with strong domain expertise and rich experience to ensure that the solution requirements and required outcomes are identified. Design workshops require collaboration with key customer stakeholders from architecture, virtualization, and networking teams. After the design workshop, the consultant develops a Nutanix Design Document and Configuration Workbook that addresses conceptual, logical, and physical NCI design elements.

Starter Edition

For customers who want a basic Infrastructure design to run greenfield workloads.

The Starter Edition includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
- Develop NCI architecture, including interoperability, security, and scalability for future growth
- Define integration with AD/LDAP and IPAM/DNS environments
- Develop NCI cluster design
- Design virtual networking, including integration with the physical network
- Design virtual storage, including container layout, compression, and de-duplication
- Validate NCI sizing based on workload details provided by the customer
- Develop a plan for system functional validation testing
- Design security including data-at-rest encryption, SSL certificate, password complexity, and syslog

Pro Edition

For customers looking for a more comprehensive design that focuses on migrating existing workloads and storage. Choose the Pro Edition if designing for multisite architectures and disaster recovery (DR) capabilities or Nutanix Unified Storage (NUS).

The Pro Edition includes the following activities:

- Everything included in the Starter Edition
- Develop and plan a multisite on-premises design
- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*

  Note: For security hardening and compliance requirements, see *Nutanix Security Operations Guide* on the Nutanix Support Portal.
- Assess datacenter infrastructure and rack design
- Gather RPO and RTO requirements for workloads, including DR and replication considerations
- Plan for VM and data protection
- Design to support the migration of existing workloads and storage into the new environment
  - Review the existing environment at a high level to support sizing
  - Develop migration methodology

Optional Activities for the Pro Edition

- Design for one of the NUS data services (Objects, Volumes, or Files)

Ultimate Edition

For customers looking to fully transform and secure infrastructure with advanced role-based access control (RBAC), Flow Virtual Networking, or Flow Network Security. Choose the Ultimate Edition if designing for advanced networking, multisite architectures, disaster recovery (DR) capabilities, or Nutanix Unified Storage (NUS).

The Ultimate Edition includes the following activities:

- Everything included in Starter and Pro Editions
- Assess the current state of elements included in the design
- Design RBAC and Nutanix categories/tagging
- Design for Nutanix Flow Virtual Networking (VPC) or Nutanix Flow Network Security Microsegmentation

Optional Activities for the Ultimate Edition

- Design for all NUS data services (Objects, Volumes, and Files)

Limitations

- Limited to general virtualization and database workloads; end user computing (EUC) workload designs are available via workload-specific offers
- Excludes detailed migration planning. However, detailed planning is available as part of the Virtual Machine Migration Workshop
- Excludes design for Cisco Intersight and Cisco UCS Fabric Interconnects

Starter Edition

- For each quantity purchased, design is limited to a single production environment at one physical site for a single supported hypervisor

Pro Edition

- For each quantity purchased, design is limited to a single production environment spanning multiple physical sites for a single supported hypervisor

Ultimate Edition

- For each quantity purchased, design is limited to a single production environment spanning multiple physical sites for a single supported hypervisor

Supported Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V

Prerequisites

- None

Related Product Licenses

- None

Delivered Artifacts

- Configuration Workbook
- Design Document (standard documentation only)

> **Note:** This offer is available with several documentation options, defined here https://www.nutanix.com/support-services/consulting-services/documentation-tiers

Duration

Starter	Pro	Ultimate
Typically up to 5 days	Typically up to 10 Days	Typically up to 15 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM)
- Nutanix Database Services (NDB)

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NCI Disaster Recovery Design Workshop

Product Code: CNS-INF-A-WRK-DRD

At-a-Glance

Stage: Design

The Nutanix Cloud Infrastructure (NCI) Disaster Recovery (DR) Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive DR design for NCI based on Nutanix DR solutions, including Asynchronous, NearSync, Synchronous DR, and Metro Availability. This workshop is ideal during the Design stage of a hybrid multicloud journey.

Related Services

- NCI Disaster Recovery Deployment

Service Scope

Delivered by highly skilled consultants with strong domain expertise and rich experience to ensure that the disaster recovery solution requirements and required outcomes are identified. Design workshops require collaboration with key customer stakeholders from architecture, virtualization, and networking teams.

After the design workshop, the consultant develops a Nutanix DR Design Document and configuration workbook that addresses conceptual, logical, and physical NCI DR design elements. It also details requirements, constraints, assumptions, design decisions, identified risks, and mitigations.

The service includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions, including recovery point (RPO) and recovery time (RTO) requirements
- Map RPO and RTO requirements into a DR solution
- Review Nutanix DR technologies and how each would fit into a solution
- Review virtual infrastructure components and integration with the DR solution
- Develop a plan for system functional validation testing

Synchronous, Asynchronous, or NearSync DR Solutions

- Design availability zones
- Design protection policies
- Design recovery plans
- Design custom IP mappings
- Design categories

Metro Availability Solutions

- Design remote sites
- Design witness
- Design containers

- Design DRS / Affinity / HA settings on VMware ESXi clusters

Protection Domain-based Solutions

- Design remote sites
- Design protection domains
- Design VM classification

Limitations

- For each quantity purchased, design is limited to a single multicluster environment

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- None

Required Product Licenses

- None

Delivered Artifacts

- Configuration Workbook
- Design Document

Duration

Typically up to 3 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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NCI Flow Network Security Microsegmentation Design Workshop

Product Code: CNS-INF-A-WRK-MCR-STD

At-a-Glance

Stage: Design

The Nutanix Cloud Infrastructure (NCI) Flow Network Security Microsegmentation Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for Flow Network Security which creates software-based firewalls that inspect traffic within the datacenter to protect and isolate workloads, users, and data. IT teams have a choice of scenarios to design for their on-premises NCI cluster or Nutanix Cloud Clusters (NC2). This offer is ideal for the Design stage of a hybrid multicloud journey.

Related Services

- NCI Flow network Security Microsegmentation Deployment

Service Scope

Delivered by highly skilled consultants with strong domain expertise and rich experience to ensure that the microsegmentation requirements and required outcomes are identified. Design workshops require collaboration with key customer stakeholders from networking, virtualization, and application teams.

After the design workshop, the consultant develops an NCI Flow Network Security Design Document and configuration workbook that addresses requirements, constraints, and assumptions. The workbook also provides a detailed implementation plan and the list of required security policies and categories to be created and attached. The design of the security policies and categories will match one of the following use cases:

- End User Computing – Citrix Virtual Apps and Desktops, Frame
- 3-tier applications – presentation, application, data tiers
- Single-server applications – applications run on a single-server
- Server, service, virtual machine (VM), or environment isolation
- Service insertion and chaining

The service includes the following activities:

- Review AHV networking terminology
- Review features and functions of Flow Network Security, including microsegmentation, network service insertion, and network automation
- Discuss the design goals and gather communication requirements, including risks, constraints, and assumptions
- Assess the current state of systems to be segmented
- Assess network configuration impacts and requirements
- Develop security policies and categories for the selected use case

- Develop an implementation plan, process, and deployment waves
- Develop a post-implementation validation and test plan

Optional Activities

- License and enable Nutanix Flow Network Security

Limitations

- For each quantity purchased, development of security policies and categories is limited to 10 applications
- Excludes configuration of categories and policies

Supported Hypervisors

- Nutanix AHV

Prerequisites

- None

Required Product Licenses

- None

Delivered Artifacts

- Configuration Workbook
- Design Document

Duration

Typically up to 4 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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Infrastructure Deployment

Product Code: CNS-INF-A-SVC-DEP-ONP

At-a-Glance

Stage: Deploy

The Infrastructure Deployment service accelerates the deployment of hybrid cloud infrastructure to support any application and workload. Highly skilled consultants can deploy on-premises Nutanix Cloud Clusters (NCI) clusters or dedicated Nutanix Unified Storage (NUS) clusters. The clusters can be deployed to various supported hardware platforms, regardless of whether it's Nutanix, our OEM partners, or other platform providers. This offer is ideal for the Deploy stage of the hybrid multicloud journey.

Related Services

- Infrastructure Design Workshop
- NUS Design Workshop
- NUS Deployment
- Infrastructure Expansion
- NC2 Deployment

Note: NC2 Deployment available for the deployment of Nutanix Cloud Clusters (NC2) clusters.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin by deploying the NCI or dedicated NUS clusters according to Nutanix recommended practices and the customer-provided Design Document. After the deployment, the consultant creates a customized As-built Guide and updated Configuration Workbook to document the final configuration of the cluster(s).

On-premises NCI, NCI-Compute or Dedicated NUS Clusters

The service includes deploying up to 4 individual on-premises NCI clusters at a single physical site according to customer-provided design and configuration documentation.

The service includes the following activities:

- Review customer-provided design and configuration documentation
- Deploy and configure NCI cluster, including recommended firmware (via LCM) and AOS
- Deploy and configure the hypervisor cluster on the deployed NCI cluster
    - For VMware vSphere clusters, integrate the vSphere cluster into an existing vCenter or deploy the vCenter Server Appliance (VCSA)
    - For Microsoft Hyper-V clusters, integrate Hyper-V cluster into an existing System Center Virtual Machine Manager (VMM)
    - Configure LCM for automatic updates (online, dark site bundle, or via integrated into an existing dark site LCM webserver)
- Configure layer 2 virtual networking on hypervisor hosts

    - Configure hypervisor virtual switches
- Test and validate the deployed clusters

Optional Activities

Choose one:

- Deploy and integrate Prism Central
- Enable local key management service (KMS) for encryption
- Deploy and configure a dark site LCM webserver running either IIS (Windows) or Apache (supported Linux OS) on the customer-provided VM image
- Harden Nutanix Controller VM and AHV according to the *Nutanix Security Guide*
- Install and configure non-factory installed supported hardware (RAM, LAN, SDD, HDD, etc.)
- Install and configure hardware and drivers for GPU
    - Install host drivers
    - Deploy GPU license server
    - Configure a single test VM for vGPU

Limitations

- For each quantity purchased, deployment is limited to a single node
- Maximum of 64 nodes distributed in up to 4 on-premises NCI or dedicated NUS clusters of a single hypervisor type at a single physical site
- Excludes creation or updates to existing Design Documentation
- Excludes deployment of NUS, NCI Flow Network Security, or NCI Advanced Replication
- Excludes deployment of EUC, AI/ML, Kubernetes, or database workloads
- For VMware vSphere clusters, vCenter Server Appliance (VCSA) deployment is limited to a single standalone appliance
- Excludes integration into an external KMS
- Excludes hardening of 3rd-party components, including VMware ESXi and Microsoft Hyper-V

Supported Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V

Prerequisites

- Hardware that meets all product requirements for the selected hypervisor on NCI.

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Customer-provided Design Document

- Completed Pre-Install Questionnaire

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI

Delivered Artifacts

- Test Plan
- As-built Guide

Duration

Typically 3 days (varies based upon the number of nodes purchased)

Related Products

- Nutanix Cloud Infrastructure (NCI)

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Infrastructure Expansion

Product Code: CNS-INF-A-SVC-EXP-ONP

At-a-Glance

Stage: Deploy

The Infrastructure Expansion service accelerates the expansion of existing hybrid cloud infrastructure to provide additional capacity for new applications and workloads. Highly skilled consultants can expand on-premises Nutanix Cloud Clusters (NCI) clusters or dedicated Nutanix Unified Storage (NUS) clusters with additional nodes from the same hardware manufacturer as the existing nodes. This offer is ideal for the Deploy stage of the Hybrid Multicloud journey.

Related Services

- Infrastructure Design Workshop
- Infrastructure Deployment
- NC2 Deployment

Note: NC2 Deployment available for the expansion of existing Nutanix Cloud Clusters (NC2) clusters.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience expand the NCI or dedicated NUS cluster(s) according to Nutanix recommended practices and the customer-provided Design Document. After the expansion, the consultant creates a customized As-built Guide and updated Configuration Workbook to document the final configuration of the cluster(s).

On-premises NCI or Dedicated NUS Clusters

The service includes expanding up to 4 individual on-premises NCI clusters at a single physical location according to customer-provided design and configuration documentation.

The service includes the following activities:

- Review customer-provided design and configuration documentation
- Deploy and configure NCI nodes, including recommended firmware and AOS matching existing nodes
- Configure the hypervisor cluster on the expanded NCI cluster
  - For VMware vSphere clusters, integrate the new nodes into the existing vSphere cluster
  - For Microsoft Hyper-V clusters, integrate Hyper-V cluster into the existing System Center Virtual Machine Manager (VMM)
- Configure layer 2 virtual networking on hypervisor hosts
  - Configure hypervisor virtual switches to match the existing cluster
- Test and validate the expanded clusters (limited to non-disruptive testing)
- Optional services (choose one):
  - Harden Nutanix Controller VM and AHV according to the *Nutanix Security Guide*

- Install and configure non-factory installed supported hardware (RAM, LAN, SDD, HDD, etc.)
- Install and configure hardware and drivers for GPU
  - Install host drivers
  - Deploy GPU license server
  - Configure a single test VM for vGPU

Limitations

- Expansion is limited to the number of nodes purchased with cluster expansion services
- Maximum of 64 nodes distributed in up to 4 NCI clusters of a single hypervisor type at a single physical site
- Excludes creation or updates to existing Design Documentation
- Excludes upgrade of existing cluster hypervisor, AOS, firmware, or hardware
- Excludes deployment of NUS, NCI Flow Network Security, or NCI Advanced Replication
- Excludes deployment of EUC, AI/ML, or database workloads
- Excludes integration into an external key management service (KMS)
- Excludes hardening of 3rd-party components, including VMware ESXi and Microsoft Hyper-V

Supported Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V

Prerequisites

- Fully supported and functional on-premises NCI cluster(s) that meet all product requirements for the selected hypervisor, NCI (as required)

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- For VMware ESXi Hypervisor, Enhanced vMotion Compatibility (EVC) must be enabled for cluster expansions
- Customer-provided Design Document
- Completed Pre-Install Questionnaire

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS)
- Hypervisor licenses for NCI

Delivered Artifacts

- Test Plan
- As-built Guide

Duration

Typically 3 days (varies based upon the number of nodes purchased)

Related Products

- Nutanix Cloud Infrastructure (NCI)

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NCI Cluster Deployment or Expansion

Product Code: CNS-INF-A-SVC-DEP

At-a-Glance

Stage: Deploy

The Nutanix Cloud Infrastructure (NCI) Cluster Deployment or Expansion accelerates the deployment of hybrid cloud infrastructure to support any application and workload. Highly skilled consultants can deploy on-premises NCI clusters or dedicated Nutanix Unified Storage (NUS) clusters. The clusters can be deployed to various supported hardware platforms, regardless of whether it's Nutanix, our OEM partners, or other platform providers. This offer is ideal for the Deploy stage of the hybrid multicloud journey.

Related Services

- NCI Design Workshop

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin deploying the NCI or dedicated NUS clusters according to Nutanix recommended practices and the customer-provided Design Document. After the deployment, the consultant creates a customized as-built document and updated configuration workbook to document the final configuration of the cluster(s).

Starter Edition

For customers who want to deploy up to 4 individual on-premises NCI clusters or expand an existing NCI cluster with additional nodes according to customer-provided design and configuration documentation during a single on-premises visit.

The Starter Edition is a basic NCI cluster deployment without any NUS data services and includes the following activities:

- Review customer-provided design and configuration documentation
- Configure layer 2 virtual networking on hypervisor hosts
  - Configure hypervisor vSwitch
- Deploy and configure NCI cluster, including recommended firmware and AOS
- Deploy and configure the hypervisor cluster on the deployed NCI cluster
  - For VMware vSphere clusters, integrate the vSphere cluster into an existing vCenter or deploy the vCenter Server Appliance (VCSA)
  - For Microsoft Hyper-V clusters, integrate Hyper-V cluster into an existing System Center Virtual Machine Manager (VMM)
  - Configure LCM for automatic updates (online or integrated into an existing dark site webserver)
- Test and validate the deployed clusters

Optional Activities for the Starter Edition

- Deploy and integrate Prism Central

- Enable local key management service for encryption

Pro Edition

For customers who want to deploy one of the available Nutanix Unified Storage data services: Objects, Volumes, or Files on one or more NCI clusters deployed with the Starter Edition.

The Pro Edition is also appropriate for deploying dedicated NUS clusters and includes the following activities plus one of the optional activities:

- Everything included in the Starter Edition
- Deploy one NUS Files, Volumes, or Objects data service according to a customer-provided design and configuration documentation
  - NUS Objects:
    - Enable Nutanix Objects
    - Deploy object store
    - Generate API keys
    - Configure bucket(s)
    - Test and validate the NUS Objects deployment
  - NUS Volumes:
    - Configure the iSCSI target address
    - Configure volume groups
    - Test and validate the NUS Volumes deployment
  - NUS Files:
    - Deploy NUS Files
    - Configure file server and shares
    - Test and validate the NUS Files deployment

Optional Activities for the Pro Edition

Choose one:

- Deploy and configure dark site LCM webserver running either IIS (Windows) or Apache (supported Linux OS) on the customer-provided VM image
- Harden Nutanix Controller VM and AHV according to the *Nutanix Security Guide*
- Install and configure hardware and drivers for GPU
  - Install host drivers
  - Deploy GPU license server
  - Configure a single test VM for vGPU

Ultimate Edition

For customers who want to deploy any combination of the available Nutanix Unified Storage data services: Objects, Volumes, or Files on one or more NCI clusters deployed with the Starter Edition.

The Ultimate Edition is appropriate for deploying dedicated NUS clusters to consolidate all data services and includes the following activities plus one of the optional activities:

- Everything included in the Starter Edition

- Deploy any combination of NUS Files, Volumes, or Objects data service according to a customer-provided design and configuration documentation
  - NUS Objects:
    - Enable Nutanix Objects
    - Deploy object store
    - Generate API keys
    - Configure bucket(s)
    - Test and validate the NUS Objects deployment
  - NUS Volumes:
    - Configure the iSCSI target address
    - Configure volume groups
    - Test and validate the NUS Volumes deployment
  - NUS Files:
    - Deploy NUS Files
    - Configure file server and shares
    - Test and validate the NUS Files deployment
    - Configure a single test VM for vGPU

Optional Activities for the Ultimate Edition

Choose one:

- Deploy and configure dark site LCM webserver running either IIS (Windows) or Apache (supported Linux OS) on the customer-provided VM image
- Harden Nutanix Controller VM and AHV according to the *Nutanix Security Guide*
- Install and configure hardware and drivers for GPU
  - Install host drivers
  - Deploy GPU license server
  - Configure a single test VM for vGPU

Limitations

- For each quantity purchased, deployment is limited to a maximum of 64 nodes distributed in up to 4 on-premises NCI or dedicated NUS clusters of a single hypervisor type at a single physical site
- Excludes creation or updates to existing Design Documentation
- Excludes NCI Flow Network Security and NCI Advanced Replication deployment
- Excludes EUC, AI/ML, or database workload deployment

Starter Edition

- Hypervisor vSwitch limited to 2 vSwitches and 5 port groups
- For VMware vSphere clusters, vCenter Server Appliance (VCSA) deployment limited to one standalone appliance

Pro Edition

- Deployment of one NUS Files, Volumes, or Objects data service per NCI or dedicated NUS cluster up to a maximum of 4 clusters according to the customer-provided design (customer choice of one)

Ultimate Edition

- Hardening of 3rd-party components, including VMware ESXi and Microsoft Hyper-V

Supported Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V

Prerequisites

- Hardware that meets all product requirements for the selected hypervisor, NCI, and NUS (as required)

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- For VMware ESXi Hypervisor, Enhanced vMotion Compatibility (EVC) must be enabled for cluster expansions
- For Cisco Intersight, Intersight infrastructure services must be deployed and functioning
- Cisco Fabric Interconnects must be deployed and functioning
- Customer-provided Design Document
- Completed Pre-Install Questionnaire

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS)
- Hypervisor licenses for NCI

Delivered Artifacts

- Test Plan
- As-built Guide

Duration

Starter	Pro	Ultimate
Typically up to 3 days	Typically up to 4 days	Typically up to 5 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS)
- End User Computing (EUC)
- Nutanix Database Services (NDB)

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NCI Disaster Recovery Deployment

Product Code: CNS-INF-A-SVC-DRD

At-a-Glance

Stage: Deploy

The Nutanix Cloud Infrastructure (NCI) Disaster Recovery (DR) Deployment accelerates the deployment of NCI DR solutions, including Asynchronous, NearSync, Synchronous DR, Metro Availability, and Protection Domain-based DR on on-premises NCI and Nutanix Cloud Clusters (NC2) clusters. This offer is ideal for the Deploy stage of the hybrid multicloud journey.

Related Services

- NCI Disaster Recovery Design Workshop

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin by reviewing the customer-provided DR Design Document and requirements. The consultant then deploys and configures one of the supported DR solutions according to Nutanix recommended practices and the customer-provided Design Document. After the deployment, the consultant creates a customized as-built document and updated configuration workbook to document the final configuration of the cluster(s).

Asynchronous or NearSync DR Solution Edition

For customers deploying Asynchronous or NearSync replication between on-premises availability zones.

The Asynchronous or NearSync Edition includes the following activities:

- Review customer-provided DR Design Documentation, RPO, and RTO requirements
- Review sizing for Nutanix snapshots
- Review requirements for Nutanix Guest Tools (NGT)
- Based upon customer-provided DR design:
  - Configure availability zones
  - Configure protection policies
  - Configure recovery plans
  - Configure custom IP mappings
- Deploy and integrate Prism Central, as required
- Test and validate recovery of nonproduction-protected VMs

Optional Activities for the Async/NearSync Edition

- Install NGT (requires supported guest operating systems)

Synchronous and Metro Availability Solution Edition

For customers deploying Nutanix synchronous replication to ensure a zero-data loss configuration between on-premises availability zones within a metro region.

The Metro Availability Solution Edition includes the following activities:

- Review customer-provided DR Design Documentation, RPO, and RTO requirements
- Review sizing for Nutanix snapshots
- Review network bandwidth and latency to support synchronous replication
- Review Metro Availability operational modes (manual, automatic resume, witness)
- Based upon customer-provided DR design:
  - Configure remote sites on each NCI cluster
  - Configure source and destination containers
  - Configure protection policies and recovery plans
  - For VMware ESXi clusters, configure DRS affinity rules and HA settings
- Test and validate recovery of nonproduction-protected VMs
- Test and validate migration of test VMs between sites
- Test and validate the DR process for failed site
- Test and validate the clean-up process and migration back to the primary site

Optional Activities for the Metro Availability Edition

- Deploy and Configure Metro Witness at 3rd site

Protection Domain-based Solution Edition

For customers leveraging legacy Protection Domain-based Async DR and NearSync DR technologies between on-premises availability zones.

The Protection Domain-based Solution Edition includes the following activities:

- Review customer-provided DR Design Documentation, RPO, and RTO requirements
- Review sizing for Nutanix snapshots
- Review requirements for Nutanix Guest Tools (NGT)
- Based upon customer-provided DR design:
  - Configure remote sites
  - Configure protection domains
  - Assign VMs to the protection domains

  Note: NGT is required for cross-hypervisor DR

- Test and validate recovery of nonproduction-protected VMs
  - Validate recovery from the primary site protection domain
  - Validate recovery from remote site protection domain
  - Validate protection domain migration (planned event)
  - Validate protection domain activation (unplanned event)
  - Validate post-DR clean-up procedures

Optional Activities for the PD-Based Solution Edition

- Install NGT on VMs

Limitations

- For each quantity purchased, deployment is limited to one source cluster and one target cluster. Source and target clusters can be a combination of on-premises NCI or NC2 clusters.
- Excludes Disaster Recovery to Nutanix Cloud availability zone (also known as Nutanix DRaaS)

Asynchronous or NearSync DR Solution Edition

- Configuration limited to:
  - 2 availability zones
  - 5 protection policies
  - 5 recovery plans
  - 20 custom IP mappings
- Installation of NGT limited to 5 VMs
- Test and validate recovery of up to 5 nonproduction-protected VMs

Synchronous and Metro Availability Solution Edition

- AHV configuration limited to:
  - 2 availability zones
  - 5 protection policies
  - 5 recovery plans
- ESXi configuration limited to:
  - 1 source and destination container
- Test and validate recovery of up to 5 nonproduction-protected VMs

Protection Domain-based Solution Edition

- Configure up to 10 protection domains
- Installation of NGT limited to 5 VMs
- Test and validate recovery of up to 5 nonproduction-protected VMs

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI or NC2 source cluster and on-premises NCI or NC2 target cluster that meets all product requirements for the selected DR solution.

  Note: For information on the requirements for configuring Nutanix Disaster Recovery, see Disaster Recovery Requirements in the *Nutanix Disaster Recovery Guide* on the Nutanix Support Portal.

- Completed Pre-Install Worksheet

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor license for NCI

Delivered Artifacts

- Test Plan
- As-built Guide

Duration

Async, NearSync, Sync	Metro Availability	Protection Domains
Typically up to 3 days	Typically up to 3 days	Typically up to 2 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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NCI Flow Network Security Microsegmentation Deployment

Product Code: CNS-INF-A-SVC-MCR-STD

At-a-Glance

Stage: Deploy

The Nutanix Cloud Infrastructure (NCI) Flow Network Security Microsegmentation Deployment accelerates the deployment of Flow Network Security, which creates software-based firewalls that inspect traffic within the datacenter to protect and isolate workloads, users, and data. IT teams have a choice of scenarios to design for their on-premises NCI cluster or Nutanix Cloud Clusters (NC2). This offer is ideal for the Deploy stage of the hybrid multicloud journey.

Related Services

- Infrastructure Design Workshop
- NCI Flow Network Security Microsegmentation Design Workshop

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin by reviewing the customer-provided NCI Flow Network Security Design Document and requirements. The consultant then deploys and configures the required security policies and categories. After the deployment, the consultant creates a customized as-built document and updated configuration workbook to document the final microsegmentation configuration.

The service includes the following activities:

- Review and verify deployment requirements, constraints, assumptions, dependencies, and decisions for the configuration as documented in the existing Design Document
- Enable and license Nutanix Flow Network Security on the existing on-premises NCI or NC2 cluster, if needed
- Execute the deployment plan, process, and deployment waves
    - Configure categories and apply them to VMs as defined in the plan
    - Configure policies as defined in the plan
    - Conduct testing and validation of the policies
- Execute the existing post-migration validation plan

Optional Activities

- Enable Flow Network Security Central

Limitations

- For each quantity purchased, deployment is limited to 10 Flow Network Security policies per pack.

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) cluster that meets all product requirements for Flow Network Security
- Fully supported and functional on-premises Prism Central instance

  Note: For information on the requirements for configuring the Prism Central instance, see Prism Central Installation *or* Upgrade in *the Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Prism Central and Prism Element time synced
- Active Directory domain and user group requirements as required for the VDI policy

  Note: For information on the requirements for configuring NCI Flow Network Security, see the *Flow Microsegmentation Guide* on the Nutanix Support Portal.

- Production and Test virtual networks already configured
- Customer-provided Design Document
- Completed Pre-Deployment Questionnaire

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI) Pro or Ultimate Edition

Delivered Artifacts

- Test Plan
- As-built Guide

Duration

Typically up to 2 days, delivered virtually

Note: In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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FastTrack for NCI Flow Network Security Microsegmentation

Product Code: CNS-INF-FST-FLOW

At-a-Glance

Stage: Deploy

FastTrack for Nutanix Cloud Infrastructure (NCI) Flow Network Security Microsegmentation accelerates the enablement and deployment of Flow Network Security in greenfield environments, which creates software-based firewalls that inspect traffic within the datacenter for critical applications and data. IT Network teams have a choice of available scenarios to deploy for their on-premises NCI cluster or Nutanix Cloud Clusters (NC2). This offer is ideal for the Deploy stage of a hybrid multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with an enablement session to identify requirements. After the enablement session, the consultant configures NCI Flow Network Security for one of the available scenarios. Enablement sessions require collaboration with key customer stakeholders from networking, virtualization, and application teams.

The service includes the following activities:

- Conduct NCI Flow Network Security enablement session
  - Review AHV networking terminology
  - Discuss Flow Network Security policies
  - Explain the Flow Network Security policy evaluation order
- Explain categories usage in Flow Network Security policies
- Configure and customize one of the following scenarios
  - Configure a single Application Security policy (2- or 3-tier)
  - Configure a single Isolation Environment policy
  - Configure a single Quarantine policy
  - Configure a Virtual Desktop Infrastructure (VDI) policy with support for AD groups

Optional Activities

- Enable Flow Security Central

Limitations

- For each quantity purchased, configuration is limited to a single Prism Central instance
- Limited to greenfield environments
- Application Security policy limited to a total of 5 VMs in all tiers
- Isolation Environment policy limited to 5 VMs within a category

- Quarantine policy limited to 5 VMs
- VDI policy limited to 3 Active Directory groups, with 3 users per group

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) cluster that meets all product requirements for Flow Network Security
- Fully supported and functional on-premises Prism Central instance

> **Note:** For information on the requirements for configuring the Prism Central instance, see Prism Central Installation *or* Upgrade in *the Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Prism Central and Prism Element time should be in sync
- Active Directory domain and user group requirements as required for the VDI policy

> **Note:** For information on the requirements for configuring NCI Flow Network Security, see *Flow Microsegmentation Guide* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI) Pro or Ultimate Edition

Delivered Artifacts

- Test Plan
- As-built Guide

Duration

Typically up to 2 days, delivered virtually

> **Note:** In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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FastTrack for NCI Flow Virtual Networking VPC

Product Code: CNS-NET-FST-FVN

At-a-Glance

Stage: Deploy

FastTrack for Nutanix Cloud Infrastructure (NCI) Flow Virtual Networking (VPC) accelerates the deployment of software-defined network virtualization solutions in greenfield environments, which provide overlay capabilities for Nutanix AHV clusters, with in-depth networking expertise from highly skilled consultants. IT Network teams have a choice of available scenarios to enable Flow Virtual Networking for on-premises sites. This offer is ideal for the Deploy stage of a hybrid multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with an enablement and discovery session. After the enablement and discovery session, the consultant configures NCI Flow Virtual Networking for one of the available scenarios. Enablement sessions require collaboration with key customer stakeholders from networking, virtualization, and application teams.

Essential Edition

For customers who want to enable NCI Flow Virtual Networking for a single Prism Central instance.

The Essential Edition includes the following activities:

- Conduct NCI Flow Virtual Networking enablement and discovery session
  - Provide NCI Flow Virtual Networking architecture overview
  - Analyze and determine physical network readiness
  - Describe VPC implementation
  - Plan VPC subnets
  - Plan connectivity to external subnets
  - Gather and document NAT gateway implementation requirements
  - Identify static route requirements
  - Discover management plane and operational dependencies
- Configure Flow Virtual Networking on Prism Central
  - Integrate Flow Virtual Networking into an existing DNS service
  - Create an external network (NAT)
  - Create VPCs
  - Create subnets
  - Configure and assign floating IPs

- Create policy-based routing policies for the following use cases
  - Traffic flow between subnets
  - Traffic flow in/out of a VPC
- Create and execute a Flow Virtual Networking Test Plan to validate the solution

Advanced Edition

For customers who want to enable NCI Flow Virtual Networking for 2 Prism Central instances with VPN connectivity.

The Advanced Edition includes the following activities:

- Everything included in the Essential Edition
- Enable Flow Virtual Networking on both Prism Central instances
- Configure a VPN endpoint between Prism Central instances

Limitations

Essential Edition

- For each quantity purchased, the configuration is limited to a single Prism Central instance with
  - A single external network (NAT)
  - 5 VPCs, 10 subnets per VPC, and 5 floating IPs per VPC
  - 5 floating IPs per VPC and up to 10 VMs
  - 5 policy-based routing policies
- Limited to greenfield environments

Advanced Edition

- For each quantity purchased, the configuration is limited to two Prism Central instances
- VPN endpoint configuration is limited to the Nutanix VPN gateway

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Fully supported and functional on-premises NCI cluster(s) or Nutanix Cloud Cluster (NC2) cluster(s) that meets all product requirements for Flow Virtual Networking

  Note: For information on the requirements for configuring NCI Flow Virtual Networking, see *Prerequisites for Flow Virtual Networking* on the Nutanix Support Portal.

- At least one external VLAN accessible from Prism Central
- Access to customer networking team to implement static routes

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI) Pro or Ultimate Edition

Delivered Artifacts

- Test Plan
- As-built Guide

Duration

Essential	Advanced
Typically up to 4 days	Typically up to 5 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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Virtual Machine Migration Workshop

Product Code: CNS-INF-A-WRK-MiG-VMS

At-a-Glance

Stage: Migrate

The Virtual Machine Migration Workshop offers IT teams in-depth and practical guidance to create a comprehensive virtual machine migration plan for migrating virtual machines to Nutanix Cloud Infrastructure (NCI). This offer is ideal for the Migrate state of a hybrid multicloud journey.

Related Services

- Virtual Machine Migration

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with a discovery session that collects migration requirements, current and desired guest operating system versions, application dependencies, and maintenance windows. Based on the discussions during the discovery session, the consultant then conducts a workshop, selects the migration tool, and creates a migration plan.

The service includes the following activities:

- Conduct a virtual machine migration discovery session:
  - Gather and document migration requirements, constraints, assumptions, dependencies, and decisions for the migration effort
  - Assess the current state of systems to be migrated
- Conduct virtual machine migration workshop:
  - Review options for migrating existing virtual and physical machines to the planned Nutanix Cloud Platform (NCP)
  - Assess network configuration impacts and requirements
  - Select a migration tool
  - Develop a migration plan and process, rollback plans, and migration wave(s)
  - Develop a post-migration validation plan

Limitations

- For each quantity purchased, migration planning is limited to 500 VMs. Larger environments are accommodated via a custom statement of work (SOW)
- Excludes planning for database migration and EUC migration

> **Note:** If planning to migrate databases, see the Database Migration Workshop or the EUC Migration Workshop, respectively.

Supported Hypervisors

- Nutanix AHV

- VMware ESXi
- Microsoft Hyper-V

Prerequisites

- Operating systems are supported by both NCI and the selected migration tool

  Note: For information on the supported guest operating systems, see *Nutanix Compatibility and Interoperability Matrix* on the Nutanix Support Portal.

Required Product Licenses

- None

Delivered Artifacts

- Migration Workbook
- Migration Plan
- Migration Test Plan

Duration

Typically 4 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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Virtual Machine Migration

Product Code: CNS-INF-A-SVC-MIG-VMS

At-a-Glance

Stage: Migrate

Virtual machine (VM) Migration offers IT teams in-depth and practical guidance to migrate virtual machines to Nutanix Cloud Platform (NCP) per the customer-provided migration plan. This offer is ideal for the Migrate stage of a hybrid multicloud journey.

Related Services

- Virtual Machine Migration Workshop

Service Scope

Highly skilled consultants with strong domain expertise and rich experience begin with validating the customer-provided migration plan to ensure the virtual machine migration requirements and post-migration validation plan are accurate. The consultant then migrates the virtual machines according to the migration plan.

The service includes the following activities:

- Validate virtual machine migration requirements and validation plan
- Deploy migration tools as required according to the migration plan
- Configure infrastructure as required by the migration plan
- Migrate the virtual machines based on the migration plan
- Monitor the migration process via periodic touchpoints
- Remediate identified migration issues
- Execute the existing post-migration validation plan

Limitations

- For each VM Migration offer purchased, migration of all VM packs is limited to a single migration event and each pack purchased is limited to migration of up to 5 VMs or up to 2.5TiB of total data.
- Additional migration events require a separate purchase of the VM Migration offer

  Note: A custom statement of work (SOW) is required for more than 100 VM packs (500 VMs).

- Excludes VM migration planning.

  Note: Nutanix recommends the *Virtual Machine Migration Workshop* to meet the migration planning requirement.

- Workloads and operating systems for migration must be supported by the chosen migration tool

  Note: The database migration tool(s) are selected as a result of the database assessment conducted as part of the *Database Migration Workshop*.

- Excludes in-place conversions from ESXi to AHV
- Excludes migration of Domain Controller, Failover Clusters and Virtual Appliances
- Excludes migration of business-critical database workloads.

  Note: Database migration requires both the *Database Migration Workshop,* and the *Database Migration* services

- Excludes migration of EUC control plane and EUC workloads.

  Note: EUC migration is available as part of the *EUC Workload and Gold Image Migration* service.

Supported Migration Tools

- Nutanix Move
- VMware Converter

Supported Source Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V

Supported Public Cloud Platforms

- Amazon Web Services (AWS)
- Microsoft Azure

Prerequisites

- Customer-provided migration plan
- Fully supported and functional on-premises NCI cluster, Nutanix Cloud Clusters (NC2) AWS, or Azure Environment that meets all product requirements for Nutanix Move
- Fully supported and functional source environment

  Note: For information on the requirements for using Nutanix Move, see *Move User Guide* on the Nutanix Support Portal.

- Operating systems are supported by both NCI and the selected migration tool

  Note: For information on the supported guest operating systems, see *Nutanix Compatibility and Interoperability Matrix* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)

Delivered Artifacts

- Migration Procedure
- Migration Test Plan

Note: This offer is available with several documentation options, defined here https://www.nutanix.com/support-services/consulting-services/documentation-tiers

Duration

Typically up to 2 days

Note: Migration time varies based on data volume, throughput, and number of migration events

Note: In-person delivery may incur additional charges

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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Physical-to-Virtual Conversion

Product Code: CNS-INF-A-SVC-MIG-PHY

At-a-Glance

Stage: Migrate

Physical-to-Virtual (P2V) Conversion offers IT teams strong domain expertise to accelerate the conversion of supported physical machines to virtual machines running on Nutanix Cloud Platform (NCP) per the customer-provided migration plan. This offer is ideal for the Migrate stage of a hybrid multicloud journey.

Service Scope

Highly skilled consultants with strong domain expertise and rich experience begin with validating the customer-provided migration plan to ensure the physical machine migration requirements and post-migration validation plan are accurate. The consultant then converts the physical to virtual machines according to the migration plan.

The service includes the following activities:

- Review and verify migration requirements, constraints, assumptions, dependencies, and decisions for the migration effort as documented in the existing plan
- Deploy conversion tool and appliance as required per the migration plan
- Configure infrastructure as required per the migration plan
- Execute the agreed-upon migration plan, process, and migration waves according to the supported conversion tool
- Execute the existing post-migration validation plan

Limitations

- Excludes migration planning
- For each quantity purchased, migration is limited to up to 5 physical machines
- Unsupported operating systems (OS) are not in scope for this service.

Supported Conversion Tools

- HYCU
- Carbonite Migrate
- VMware Converter

Supported Target Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Customer-provided migration plan
- Fully supported and functional on-premises Nutanix Cloud Infrastructure (NCI) cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements
- Fully supported and functional source environment
- Operating systems are supported by both NCI and the selected conversion tool

> **Note:** For information on the supported guest operating systems, see *Nutanix Compatibility and Interoperability Matrix* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI

Delivered Artifacts

- Migration Test Plan

Duration

Typically up to 2 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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FastTrack for Nutanix Move

Product Code: CNS-INF-FST-MOVE

At-a-Glance

Stage: Migrate

FastTrack for Nutanix Move accelerates the deployment of a cross-hypervisor mobility solution to migrate virtual machines (VMs) with minimal downtime with in-depth migration expertise from highly skilled consultants. Additionally, consultants demonstrate the migration of virtual machines. This offer is ideal for the Migrate state of a hybrid multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with an enablement session. After the enablement session, the consultant deploys and configures Nutanix Move and a single VM source and destination, minimizing the time for migrating VMs.

The service includes the following activities:

- Conduct a Nutanix Move enablement session
  - Review integration among AOS and hypervisors
  - Provide Nutanix Move features and functionality overview
- Deploy Nutanix Move appliance
  - Configure Nutanix Move to connect to the VM source environment
  - Configure Nutanix Move to connect to the target cluster
  - Demonstrate migration of VMs

Limitations

- For each quantity purchased, Nutanix Move is limited to a single on-premises NCI or Nutanix Cloud Clusters (NC2), or supported public cloud environment (AWS or Azure)
- Connect to a single existing supported target cluster
- Connect to a single existing supported VM source environment
- Migration limited to 5 non-production VMs
- Excludes in-guest VM reconfiguration
- Nutanix Move must support the operating system of the source and target VMs
- Excludes in-place conversions from ESXi to AHV
- Excludes migration of Domain Controller, Failover Clusters and Virtual Appliances
- Excludes migration of mission-critical database workloads.

  Note: Database migration requires both the *Database Migration Workshop,* and the *Database Migration* services

- Excludes migration of EUC control plane and EUC workloads.

Note: EUC migration is available as part of the *EUC Workload and Gold Image Migration* service.

Supported Source Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V
- Microsoft Azure
- Amazon Web Service EC2

Supported Target Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V
- Microsoft Azure

Prerequisites

- Fully supported and functional on-premises NCI cluster, NC2 cluster, or Supported public cloud environment that meets all product requirements for Nutanix Move
- Fully supported and functional source environment

Note: For information on the requirements for using Nutanix Move, see *Move User Guide* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)

Delivered Artifacts

- As-built Guide

Duration

Typically up to 2 days, delivered virtually

Note: In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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NCI Operations Workshop

Product Code: CNS-INF-A-WRK-OPS

At-a-Glance

Stage: Operate

The Nutanix Cloud Infrastructure (NCI) Operations Workshop offers IT teams in-depth insights and practical hands-on experience to operate the NCI environment successfully and perform advanced operations and troubleshooting. The workshop benefits customers who want to accelerate the preparation of new or existing operations team members. This workshop is beneficial during the Operate stage of a hybrid multicloud journey.

Service Scope

Delivered by highly skilled consultants with strong domain expertise and rich experience who begin the workshop with an overview of the NCI architecture and proceed to deep dive into operations, advanced concepts, and troubleshooting. The workshop combines theory and hands-on labs using the customer's deployed NCI or NC2 Cluster.

Upon completion of the workshop, operations teams will:

- Have an advanced understanding of the Nutanix architecture
- Be capable of operating the NCI or NC2 clusters at scale
- Be comfortable using Nutanix command line interface (CLI)
- Understand processes to follow during troubleshooting

The workshop includes the following topics and activities:

Nutanix Architecture Overview

- Introduction to Nutanix Architecture and NCI
- NCI or NC2 Cluster components
  - Distributed storage fabric
  - Major services (Curator, Zeus, Stargate, Cassandra, Genesis)
  - Resiliency (RF, failure scenarios, failure domains)

  Note: See the Nutanix Glossary on the Support Portal for more information about Nutanix terms and services.

- Nutanix management plane
  - Prism Element
  - Prism Central
  - CLI (ACLI, NCLI)
  - REST API

NCI Administration

- Nutanix AHV
  - NCI or NC2 cluster configuration
  - Virtual networking
  - Storage management
  - VM management
  - Categories
  - Image service
  - Nutanix Guest Tools
  - Data protection
  - Hardware management
  - Environment scaling
  - Lifecycle management
- VMware ESXi
  - NCI or NC2 cluster configuration
  - Virtual networking
  - Storage management
  - VM management
  - Snapshots
  - Data protection
  - Hardware management
  - Environment scaling
  - Lifecycle management
  - Recommended practices

Troubleshooting

- Using Prism Central to troubleshoot NCI
- Using CLI to troubleshoot NCI
- Understanding Nutanix alerting
- Creating and understanding performance graphs
- Opening Nutanix Support tickets
- Finding documentation and Best Practice Guides on the Support Portal
- Finding Nutanix Validated Design (NVD) and Solutions documentation

Advanced Operations (optional)

- NCM Intelligent Operations overview
- Role-based access control (RBAC) and NCM Self-Service overview

- Security management
- Disaster recovery (DR) overview

Demo or Hands-on Labs

- Infrastructure configuration
  - Storage management
  - Network configuration
  - Image management
  - Policy management
- VM Lifecycle
  - VM create, read, update, and delete (CRUD) operations
  - Category management
  - Snapshot management
  - VM placement management

Limitations

- For each quantity purchased, demo or hands-on labs are limited to a single on-premises NCI or NC2 cluster at a single physical site
- Workshop is limited to a maximum of 10 attendees

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI or NC2 cluster that meets all product requirements for the selected hypervisor and NCI.

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Fully supported and functional on-premises Prism Central instance for advanced operations (optional)

  Note: For information on the requirements for configuring NCM Intelligent Operations, see Prism Central Installation *or* Upgrade in *Prism Central Infrastructure Guide* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM)
- Hypervisor licenses for NCI

Delivered Artifacts

- Deployment Guide

Duration

Typically 3 days, delivered consecutively

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM)

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NCI Cluster FitCheck

Product Code: CNS-INF-A-SVC-FIT

At-a-Glance

Stage: Optimize

The Nutanix Cloud Infrastructure (NCI) FitCheck offers IT teams in-depth and practical guidance to identify potential performance issues, misconfiguration, and recommended practices for Nutanix Cloud Infrastructure (NCI), Nutanix Cloud Clusters (NC2), or dedicated Nutanix Unified Storage (NUS) clusters. The offer proves potentially beneficial during the Optimize stage of a hybrid multicloud journey. By leveraging the insights gained from performing the FitCheck, IT teams can ensure an optimized and high-performing NCI environment.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience evaluate existing NCI, NC2, or dedicated NUS clusters according to Nutanix recommended practices. After the assessment, the consultant creates a customized Findings Report with the current configuration of the clusters and recommended remediations.

Starter Edition

The Starter Edition is for basic on-premises NCI or NC2 clusters without any NUS data services and includes the following activities:

- Collect data and conduct assessment of Nutanix AOS and hypervisor cluster
- Review layer 2 virtual networking
  - Review hypervisor vSwitch configuration
- Review NCI cluster deployment and configuration, including firmware and AOS
- Review hypervisor cluster configuration on the deployed NCI clusters
  - For VMware vSphere clusters, review existing vCenter or VCSA configuration
  - For Microsoft Hyper-V clusters Review existing System Center Virtual Machine Manager configuration
- Review existing operational procedures
- Generate as-built documentation for the current NCI cluster configuration

Optional Activities for the Starter Edition

- Review existing Prism Central deployment and integration

Pro Edition

The Pro Edition is appropriate for an assessment of on-premises NCI or NC2 clusters with Nutanix Unified Storage (NUS) data services or dedicated NUS clusters and includes the following activities:

The service includes the following activities:

- Everything included in the Starter Edition

- Review configuration and usage of one of the NUS Files, Volumes, or Objects data service

Ultimate Edition

The Ultimate Edition is appropriate for an assessment of on-premises NCI or NC2 clusters with any combination of the available Nutanix Unified Storage (NUS) data services or dedicated NUS clusters. The Ultimate Edition is also appropriate for NCI or NC2 clusters leveraging NCI native disaster recovery (DR) solutions and includes the following activities:

- Everything included in the Starter Edition
- Review configuration and usage of any combination of the NUS Files, Volumes, or Objects data services
- Review configuration and usage of NCI DR solutions

Limitations

- For each quantity purchased, assessment is limited to a maximum of 64 nodes distributed in up to 4 NCI or dedicated NUS clusters of a single hypervisor type at a single physical site
- Excludes remediation of identified issues but is available as a custom statement of work (SOW)
- Review hypervisor vSwitch configuration limited to 2 vSwitches and 5 port groups

Supported Source Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V

Prerequisites

- Fully supported and functional NCI, NC2, or dedicated NUS cluster that meets all product requirements for the selected hypervisor, NCI, and NUS (as required)

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the Field Installation Guide on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS)
- Hypervisor licenses for NCI

Delivered Artifacts

- As-built Guide(s)
- FitCheck Findings Presentation (optional)
- FitCheck Report

Duration

Starter	Pro	Ultimate
Typically 2-3 days	Typically 3-4 Days	Typically 4-5 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Unified Storage (NUS)
- End User Computing (EUC)
- Nutanix Database Service (NDB)

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Nutanix Cloud Infrastructure – Compute (NCI-C) Services

NUTANIX

NCI-C Bundle Dell PowerFlex Essential Edition

Product Code: CNS-NCI-C-B-DELL-PF-ESS

At-a-Glance

Stage: Assess, Design, Deploy, Migrate

The Nutanix Cloud Infrastructure Compute (NCI-C) Bundle Dell PowerFlex Essential Edition provides IT teams with a streamlined, end-to-end solution for migrating existing Dell PowerFlex environments from VMware ESXi to Nutanix AHV.

Designed to support the Assess, Design, Deploy, and Migrate stage of your unified hybrid cloud journey, this bundle helps you:

- Simplify hypervisor transition with expert-led migration
- Accelerate workload migration to a modern, unified infrastructure
- Maximize return on investment (ROI) by extending the value of your existing Dell PowerFlex investments

This solution empowers your team to move forward with confidence—reducing complexity while preparing your environment for scalable, future-ready operations.

Related Services

- Virtual Machine Migration
- Database Migration Workshop
- Database Design Workshop

Service Scope

Experienced consultants lead a series of structured discovery and design workshops to evaluate readiness and define solution requirements for deploying NCI-C with Dell PowerFlex. These collaborative sessions engage key customer stakeholders—including architecture, virtualization, storage, and networking teams—to align on desired outcomes and ensure a successful implementation.

Following the design workshops, the consultant delivers two key artifacts:

- Design Document – Captures the conceptual, logical, and physical architecture of the proposed solution.
- Configuration Workbook – Details environment-specific configuration parameters to guide implementation.

With the design phase complete, the consultant conducts a focused discovery session to gather in-depth migration requirements. These insights inform a migration planning workshop, where consultants lead an evaluation of suitable tools and strategies. The result is a comprehensive Migration Plan that defines the path for transitioning from VMware ESXi to Nutanix AHV.

During deployment, the consultant provisions the NCI Compute cluster(s) and integrates them with Dell PowerFlex storage systems, following Nutanix-recommended practices to ensure optimal performance and reliability.

Upon completion, the consultant delivers:

- A customized As-built Guide capturing the final deployed configuration
- An updated Configuration Workbook for operational reference

The consultant then performs the virtual machine (VM) migration in alignment with the defined Migration Plan, ensuring a seamless, validated transition to the integrated NCI-C and Dell PowerFlex environment.

The service includes the following activities:

NCI-C Dell PowerFlex Readiness Workshop

- Present an overview of NCI-C for Dell PowerFlex, including recommended practices for successful integration
- Review operational procedures for NCI-C for Dell PowerFlex, including patching and maintenance
- Assess compatibility requirements between the existing Dell PowerFlex deployment and NCI-C
- Evaluate the existing network topology and connectivity requirements for NCI-C for Dell PowerFlex
- Develop a plan for recommended migration paths and workload transition methodologies for existing workloads
- Review data protection and business continuity considerations for NCI-C for Dell PowerFlex
- Validate sizing based on workload details provided by the customer
- Develop an Implementation Plan aligned with technical requirements

Infrastructure Design Workshop

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
- Assess the current state of the existing Dell PowerFlex deployment included in the design
- Assess the datacenter infrastructure and rack design
- Develop NCI-C Dell PowerFlex architecture, including interoperability, security, and scalability for future growth
- Define integration with Active Directory (AD)/light-weight directory access protocol (LDAP) and IP address management (IPAM)/domain name service (DNS) environments
- Develop NCI-C Dell PowerFlex cluster design
- Design virtual networking, including integration with the existing physical network topology
- Validate cluster sizing based on workload details provided by the customer
- Plan Controller VM (CVM) and AHV security hardening and compliance as per the *Nutanix Security Operations Guide*

  Note: For security hardening and compliance requirements, see *Nutanix Security Operations Guide* on the Nutanix Support Portal.

- Design management plane and operations dependencies, including integration with Dell PowerFlex Manager
- Develop a plan for system functional validation testing
- Design security, including data-at-rest encryption, SSL certificate, password complexity, and syslog

- Design role-based access control (RBAC) and Nutanix categories/tagging

VM Migration Workshop

- Conduct a VM migration discovery session:
  - Gather and document migration requirements, constraints, assumptions, dependencies, and decisions for the migration effort
  - Assess the current state of systems to be migrated
- Conduct a VM migration workshop:
  - Review options for optimally migrating existing ESXi virtual machines running on the compute cluster to AHV while ensuring performance and resiliency
  - Assess network configuration impacts and requirements
  - Select a migration tool
  - Develop a Migration Plan and process, rollback plans, and migration event(s)
  - Develop a post-migration validation plan

Infrastructure Deployment

- Deploy and configure NCI-C cluster, including recommended firmware (via life-cycle manager (LCM)) and Acropolis operating system (AOS)
- Deploy and configure Nutanix AHV on the deployed NCI Compute cluster
- Configure LCM for automatic updates (online, dark site bundle, or via integrated into an existing dark site LCM webserver)
- Configure layer 2 virtual networking on hypervisor hosts
  - Configure hypervisor virtual switches
- Test and validate the deployed clusters

Optional Services

- Deploy and integrate Prism Central
- Enable local key management service (KMS) for encryption
- Choice of one of the following:
  - Deploy and configure a dark site LCM webserver running either IIS (Windows) or Apache (supported Linux OS) on the customer-provided VM image
  - Harden Nutanix Controller VM and AHV according to the *Nutanix Security Guide*

PowerFlex Integration

- Integrate NCI-C with Dell PowerFlex Storage
- Configure networking as per Dell PowerFlex requirements
  - Configure network segmentation and virtual switches
  - Configure IP pool
  - Configure logical network interface with external storage enabled
- Add external storage via Nutanix Prism

- Install Dell PowerFlex Storage Data Client (SDC) for Nutanix
- Connect Prism Central to Dell PowerFlex Manager and storage pool
- Test and validate integration between NCI-C and Dell PowerFlex

VM Migration

- Deploy migration tools as required according to the Migration Plan
- Configure infrastructure as required by the Migration Plan
- Migrate up to five standard VMs from ESXi to AHV based on the Migration Plan
- Monitor the migration process via periodic touchpoints
- Remediate identified migration issues
- Execute the existing post-migration validation plan

Site Design Topology

The Essential Edition supports a single site or multisite disaster recovery (DR) topology design and deployment.

- Single Site
  - Single site design in a single physical site.
- Multisite DR – DR active/active or active/passive
  - Gather recovery point objective (RPO) and recovery point objective (RTO) requirements for workloads, including DR and replication considerations

Limitations

Infrastructure Design Workshop

- Limited to general virtualization workloads

> **Note:** Database workloads and end user computing (EUC) workload designs are available via the *Database Design Workshop* and *EUC Broker Design Workshop* respectively.

VM Migration Workshop

- Migration planning is limited to 500 VMs.
- Excludes planning for business-critical database and EUC workloads

> **Note:** If planning to migrate databases, see the *Database Migration Workshop* or the *EUC Migration Workshop,* respectively.

Infrastructure Deployment

- To prevent data loss, existing Dell PowerFlex environment being targeted for migration to Nutanix AHV must not be running workloads during the infrastructure deployment phase for the NCI Compute clusters

> **Note:** Migrating workloads to a temporary staging cluster is available via a custom statement of work (SOW)

- Excludes deployment of nodes running on the Dell PowerFlex storage cluster

- Excludes deployment of NCI Advanced Replication

  Note: NCI Advanced Replication deployment is available via the *NCI Disaster Recovery Deployment* offer.

- Excludes deployment of NCI Flow Network Security (FNS)

  Note: NCI Flow Network Security deployment is available via the *NCI Flow Network Security Microsegmentation Deployment* offer.

- Excludes application and database workload deployment
- Excludes deployment of Nutanix Unified Storage (NUS) Objects and NUS Files

VM Migration

- Migration must occur as a single contiguous migration wave
- Migration is limited to up to 5 VMs or up to 2.5TiB of total data
- Excludes migration of business-critical databases

  Note: Database migration requires both the *Database Migration Planning Workshop* and the *Database Migration* services.

- Excludes migration of EUC control plane and EUC workloads.

  Note: EUC migration is available as part of the *EUC Workload and Gold Image Migratio*n service.

Single Site Design Topology

- Design is limited to a single production environment at a single physical site
- For each quantity purchased, deployment is limited to 1 node. A maximum of 64 nodes distributed in up to 4 on-premises NCI Compute clusters of a single hypervisor type at a single physical site.

Multisite DR Design Topology

- Design is limited to a single production environment spanning multiple physical sites
- Design is limited to 2 distinct site patterns, though multiple instances of each pattern can be deployed (common for hub-spoke or branch office architectures)
- For each quantity purchased, deployment is limited to a single node.
- A maximum of 64 nodes distributed in up to 4 on-premises NCI Compute clusters of a single hypervisor type at a single physical site.
- The quantity of nodes is deployed per physical site, with a maximum of 2 physical sites

Supported Hypervisors

- Supported source hypervisor
  - VMware ESXi
- Supported target hypervisor
  - Nutanix AHV

Prerequisites

- An existing supported and deployed NCI Compute cluster(s) that meets all product, hardware and software requirements for integration with PowerFlex as per the Nutanix Compatibility Matrix

  Note: For information on the requirements for hardware/software integration requirements, see *Nutanix Compatibility Matrix* on the Nutanix Support Portal.

- An existing production-ready supported and deployed Dell PowerFlex environment that meets all product and software requirements for integration with NCI
- Deployed and functioning Dell PowerFlex Manager
- Minimum of 2 spare or preconfigured network ports per NCI-C host for the Dell PowerFlex data network configured with an MTU of 9000, as per Dell PowerFlex requirements
- PowerFlex storage pool and protection domain must be configured on the Dell PowerFlex Storage cluster

  Note: For information on the requirements for integrating NCI Compute clusters and Dell PowerFlex, see *Nutanix Cloud Platform with Dell PowerFlex Deployment Guide* on the Nutanix Support Portal.

- Completed Pre-Install Questionnaire
- Sufficient capacity on the existing Dell PowerFlex storage cluster(s) to support the migration
- Fully supported and functional source environment

  Note: For information on the requirements for using Nutanix Move, see *Move User Guide* on the Nutanix Support Portal.

- Operating systems (OS) supported by both NCI and the selected migration tool

  Note: For information on the supported guest OS, see *Nutanix Compatibility and Interoperability Matrix* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI) or Nutanix Cloud Infrastructure Compute (NCI-C)

Artifacts Delivered

- Readiness Report
- Configuration Workbook
- Design Document
- Migration Workbook
- Migration Plan
- Migration Test Plan
- Test Plan
- As-built Guide

Duration

Site Topology	Duration (varies based on the number of nodes purchased)
Single Site	Typically up to 17 days
Multisite	Typically up to 29 days

Delivery Type

Delivery Type	Basic
Virtual	• Virtual Workshop • Virtual Documentation
In-person	• In-person Workshop • Virtual Documentation

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Infrastructure Compute (NCI-C)

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NCI-C Dell PowerFlex Readiness Workshop

Product Code: CNS-NCI-C-A-WRK-DELL-PF-READ

At-a-Glance

Stage: Assess

The Nutanix Cloud Infrastructure Compute (NCI-C) Dell PowerFlex Readiness Workshop provides a thorough assessment of your existing or planned Dell PowerFlex environment and workloads to ensure seamless integration with NCI Compute clusters.

Designed as a strategic step in your unified hybrid cloud journey, especially during the Assessment phase, the workshop focuses on:

- Evaluating compatibility between Dell PowerFlex and NCI
- Validating integration prerequisites
- Exploring workload migration strategies
- Outlining operational and maintenance considerations for NCI in a Dell PowerFlex context

This readiness workshop is particularly valuable when migrating critical workloads to a new virtualization option for the most demanding workloads running on external storage.

Related Services

- Infrastructure Design Workshop
- Infrastructure Deployment
- NCI-C Dell PowerFlex Integration
- Virtual Machine Migration Workshop
- Virtual Machine Migration

Service Scope

The NCI-C Dell PowerFlex Readiness Workshop begins with a discovery session led by certified Nutanix consultants who bring deep technical expertise and real-world experience. This session is designed to deliver immediate value to your infrastructure and storage teams by:

- Gaining a clear strategic view of your current or planned Dell PowerFlex environment through a structured review of architecture, workloads, and service-level agreements (SLAs)
- Identifying potential integration challenges early, helping you avoid costly delays and disruptions
- Aligning your workloads with Nutanix recommended practices to enhance performance, resiliency, and operational efficiency
- Providing tailored guidance for optimizing an existing deployment or planning a greenfield implementation

Using insights from a pre-engagement questionnaire, consultants guide your teams through a detailed evaluation of your Dell PowerFlex environment. For greenfield scenarios, they also assess the proposed architecture to ensure it’s ready for NCI integration. Next, the workshop focuses on target workloads being

considered for migration to NCI-C for Dell PowerFlex. Through close collaboration with customer architecture, virtualization, and storage stakeholders, consultants uncover pain points and assess integration readiness.

By the end of the assessment, customer infrastructure teams will:

- Gain actionable recommended practices for integrating Dell PowerFlex with NCI-C, tailored to your operational requirements
- Receive expert recommendations on how to migrate workloads efficiently while maintaining performance and business continuity

The service includes the following activities:

- Present an overview of NCI-C for Dell PowerFlex, including recommended practices for successful integration
- Review operational procedures for NCI-C for Dell PowerFlex, including patching and maintenance
- Assess compatibility requirements between the existing Dell PowerFlex deployment and NCI-C
- Evaluate the existing network topology and connectivity requirements for NCI-C for Dell PowerFlex
- Develop a plan for recommended migration paths and workload transition methodologies for existing workloads
- Review data protection and business continuity considerations for NCI-C for Dell PowerFlex
- Validate sizing based on workload details provided by the customer
- Develop an Implementation Plan aligned with technical requirements

Limitations

- For each quantity purchased, assessment is limited to a single production environment at a single physical site
- Excludes detailed migration planning
- Excludes deployment and migration

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Completed NCI-C for Dell PowerFlex Questionnaire

Required Product Licenses

- None

Delivered Artifacts

- Readiness Report
- Implementation Plan

Duration

Typically up to 2 days

Delivery Type

Delivery Type	Delivery Activities
Virtual	• Virtual Workshop • Virtual Documentation
In-person	• In-person Workshop • Virtual Documentation

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Infrastructure Compute (NCI-C)

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NCI-C Dell PowerFlex Integration

Product Code: CNS-NCI-C-A-SVC-DELL-PF-INTG

At-a-Glance

Stage: Deploy

The Nutanix Cloud Infrastructure Compute (NCI-C) Dell PowerFlex Integration service accelerates the deployment of NCI-C with Dell PowerFlex, ensuring a seamless and validated integration between compute and storage platforms.

Designed as a strategic step in your unified hybrid cloud journey—particularly during the Deploy phase—this service focuses on:

- Establishing a validated integration between Dell PowerFlex and NCI-C
- Configuring NCI-C clusters to leverage existing Dell PowerFlex storage investments
- Streamlining deployment workflows to reduce complexity and time-to-value
- Enabling operational readiness for managing and scaling the integrated environment

Related Services

- NCI-C Dell PowerFlex Readiness Workshop
- Infrastructure Design Workshop
- Infrastructure Deployment
- Virtual Machine Migration Workshop
- Virtual Machine Migration

Service Scope

Certified Nutanix consultants, equipped with deep domain expertise and real-world experience, lead the integration of NCI-C with Dell PowerFlex. Following Nutanix-recommended practices and the customer-provided design document, the consultants ensure a precise and efficient integration.

Upon completion, the consultant delivers:

- A customized As-built Guide detailing the final integrated configuration
- An updated Configuration Workbook to support ongoing operations and future scalability

This comprehensive documentation ensures your teams have a clear, validated reference for managing and maintaining the integrated NCI-C and Dell PowerFlex environment.

The service includes the following activities:

- Review customer-provided Design and Configuration documentation
- Configure networking as per Dell PowerFlex requirements
    - Determine physical network adapters to use for Dell PowerFlex
    - Configure network segmentation and virtual switches
    - Configure IP pool

    - Configure logical network interface with external storage enabled
- Add external storage via Prism Central
- Install Dell PowerFlex Storage Data Client (SDC) for Nutanix
- Connect Prism Central to an existing Dell PowerFlex Manager and storage pool
- Test and validate integration between NCI-C and Dell PowerFlex

Limitations

- For each quantity purchased, integration is limited to a single NCI-C cluster
- Excludes reconfiguration of Dell PowerFlex storage pool or protection domains
- Excludes deployment of the NCI-C cluster

  Note: For NCI-C cluster(s) deployment, see the *Infrastructure Deployment* offer.
- Excludes migration of workloads to Dell PowerFlex
- Excludes creation or updates to existing Design documentation
- Excludes physical cabling for new virtual switches

Supported Hypervisors

- Nutanix AHV

Prerequisites

- An existing supported and deployed NC-C cluster(s) that meets all product, hardware, and software requirements for integration with PowerFlex as per the Nutanix Compatibility Matrix

  Note: For information on product, hardware, and software requirements, see the *Nutanix Compatibility Matrix* on the Nutanix Support Portal.
- An existing production-ready supported and deployed Dell PowerFlex environment that meets all product and software requirements for integration with NCI
- Deployed and functioning Dell PowerFlex Manager
- Minimum of 2 spare or preconfigured network ports per NCI-C host for the Dell PowerFlex data network configured with an MTU of 9000, as per Dell PowerFlex requirements
- PowerFlex storage pool and protection domain must be configured on the Dell PowerFlex storage cluster

  Note: For information on the requirements for integrating NCI-C clusters and Dell PowerFlex, see *Nutanix Cloud Platform with Dell PowerFlex Deployment Guide* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI) or Nutanix Cloud Infrastructure Compute (NCI-C)

Artifacts Delivered

- Test Plan

- As-built Guide

Duration

Typically up to 1 day (varies based upon the number of clusters purchased)

Delivery Type

Delivery Type	Delivery Activities
Virtual	• Virtual Workshop • Virtual Documentation
In-person	• In-person Workshop • Virtual Documentation

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Infrastructure Compute (NCI-C)

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Nutanix Unified Storage (NUS) Services

NUTANIX

NUS Design Workshop

Product Code: CNS-NUS-A-WRK-DSGN

At-a-Glance

Stage: Design

The Nutanix Unified Storage (NUS) Design Workshop offers IT teams comprehensive guidance and a structured approach to designing NUS on Nutanix Cloud Infrastructure (NCI). This workshop encompasses NUS Files and Nutanix Objects, addressing critical aspects such as scalability, high availability, disaster recovery, integration, and operational requirements. By focusing on collaboration and comprehensive documentation, the workshop empowers IT teams to ensure scalability, high availability (HA), and seamless integration with existing infrastructure, ultimately achieving optimal outcomes. This workshop is beneficial during the Design stage of a hybrid multicloud journey,

Related Services

- NUS Deployment
- Infrastructure Design Workshop
- Infrastructure Deployment

Service Scope

Delivered by highly skilled consultants with solid storage domain expertise and rich experience, the NUS Design Workshop service ensures that the solution requirements and required outcomes are identified. Design workshops require collaboration with key customer stakeholders from architecture, storage, virtualization, and networking teams. After the design workshop, the consultant develops a Design Document and configuration workbook that addresses conceptual, logical, and physical solution design elements.

The resulting NUS design can be deployed multiple times in various environments, such as development, test, and production, assuming the business and technical requirements remain the same.

Essential Edition

For customers who want to design a single instance of NUS Files or Objects deployed to a single physical site.

The Essential Edition includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in the workshop
- Deliver an overview of high-level architecture and concepts of either NUS Files or Objects
- Review the customer's current landscape, use cases, and operations, and identify how NUS data services fit into the existing environment
- Assess resources for the existing on-premises NCI or NC2 environment, including available storage, memory, CPU, and network connectivity

- Evaluate and define the integration of other infrastructure services required for the deployment, including but not limited to Active Directory (AD), Domain Name Service (DNS), Network Time Protocol (NTP), directory services, identity services, etc.

NUS Files

- Define NUS File shares and share types based on the use case
- Identify requirements for Files Analytics or Data Lens
- Plan NUS Files Smart Tiering
- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*

  Note: For security hardening and compliance requirements, see *Nutanix Security Operations Guide* on the Nutanix Support Portal.

- Develop a validation plan that addresses the access and management of NUS Files

Nutanix Objects

- Define Nutanix Objects Store and bucket/s
- Define bucket options, including policies, versioning, lifecycle, and write once, read many (WORM)
- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*

Advanced Edition

For customers who want to deploy NUS Files and/or Objects to a pair of on-premises NCI or NC2 clusters deployed within a single physical site or across 2 physical sites for production and/or disaster recovery (DR) purposes.

The Advanced Edition includes the following activities:

- Everything included in the Essential Edition

NUS Files

- Design NUS Files DR options (Protection Domain or SmartDR)
- Plan NUS Files data management (Smart Tiering, Smart Sync, and self-service restore (SSR))
- Define requirements for Files Analytics or Data Lens.
- Develop a validation plan, including NUS Files failover and failback scenarios with non-production workloads.

Nutanix Objects

- Define bucket-level replication use case

Limitations

- Excludes infrastructure design for on-premises NCI, dedicated NUS, or NC2 clusters.

Essential Edition

- For each quantity purchased, design is limited to a single instance of NUS Files or Objects on an on-premises NCI or NC2 cluster deployed within a single physical site

Advanced Edition

- For each quantity purchased, deployment is limited to a pair of on-premises NCI or NC2 clusters deployed within a single physical site or across 2 physical sites

Prerequisites

- None

Required Product Licenses

- None

Delivered Artifacts

- Configuration Workbook
- Design Document

Duration

Essential	Advanced
Typically 4 days	Typically 6 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Unified Storage (NUS)

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NUS Deployment

Product Code: CNS-NUS-A-SVC-DEP

At-a-Glance

Deploy

The Nutanix Unified Storage (NUS) Deployment service accelerates the deployment of NUS Files and Objects data services, providing software-defined storage solutions with in-depth expertise from highly skilled consultants. IT Storage teams have a choice of available deployment scenarios for on-premises NCI clusters, dedicated NUS clusters, or Nutanix Cloud Clusters (NC2). This offer is ideal during the Deploy stage of a hybrid multicloud journey.

Related Services

- NUS Design Workshop
- Infrastructure Design Workshop
- Infrastructure Deployment

Service Scope

Highly skilled consultants with extensive domain expertise begin with a thorough review of requirements outlined in the customer-provided Design Document. Nutanix consultants collaborate with key stakeholders to fulfill prerequisites and deploy and configure NUS. After the deployment, the consultant creates a customized As-built Guide and updated Configuration Workbook to document the final configuration of the cluster(s).

Essential Edition

For customers who want to a single instance of NUS Files or Objects on an on-premises NCI or NC2 cluster deployed within a single physical site.

The Essential Edition includes the following activities:

- Review the customer-provided Design Document, including requirements and planned configuration:
- Review and validate deployment prerequisites, including:
  - Questionnaires, Files binary, virtual networks, and IP addresses
  - Existing NCI or NC2 environment
  - Availability of other infrastructure services required for the deployment, including but not limited to Active Directory (AD), Domain Name Service (DNS), Network Time Protocol (NTP), directory services, identity services, etc.
- Deploy either NUS Files or Objects
- Deploy and configure the NUS data service per the customer-provided Design Document

NUS Files

- Configure File servers
- Assign IP addresses
- Create 20 shares
- Configure Internet content adaption protocol (ICAP)
- Verify File service is accessible
- Configure security according to the Design Document
- Configure NUS Files to support workload-specific needs according to the Design Document

Optional Activities for NUS Files

  - Configure standard Smart Tiering
  - Deploy and configure File Analytics (NUS Files only) or Data Lens

NUS Objects

- Assign IP addresses
- Deploy NUS Objects data service
- Create 5 Objects buckets
- Configure bucket options per the Design Document, including policies, versioning, lifecycle, and write once, read many (WORM)
- Configure certificates
- Verify NUS Objects data service is accessible
- Configure security according to Design Documentation

Optional Activities for NUS Objects

  - Deploy and configure Data Lens

Advanced Edition

For customers who want to deploy NUS Files and/or Objects to a pair of on-premises NCI or NC2 clusters within a single physical site or across 2 physical sites for production and/or disaster recovery (DR) purposes.

The Advanced Edition includes the following activities:

- Everything included in the Essential Edition
- Deploy NUS Files and/or Objects as required at each site
- Complete the required configuration per the customer-provided Design Document

Optional Activities for the Advanced Edition

- NUS Files
  - Configure NUS Files DR per the Design Document; Protection Domain-based, Smart DR, or data sync.
  - Verify DR failover
- NUS Objects

- Configure NUS Objects replication per the Design Documentation

Limitations

- Excludes software deployment other than NUS software
- Excludes deployment and/or configuration of 3rd party software such as AD, DNS, NTP, and antivirus and backup solutions
- Excludes migration of existing data to NUS Files or NUS Objects

Note: If migration is needed, specific NUS Migration services are available

Essential Edition

- For each quantity purchased, deployment is limited to a single instance of NUS Files or Objects on an on-premises NCI or NC2 cluster deployed within a single physical site
- Configuration limited to 20 Files shares or 5 Objects buckets

Advanced Edition

- For each quantity purchased, deployment is limited to a pair of on-premises NCI or NC2 clusters deployed within a single physical site or across 2 physical sites

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Fully supported and functional on-premises NCI cluster, dedicated NUS cluster, or NC2 cluster that meets all product requirements

Note: For NUS Files prerequisites, see Prerequisites in *Nutanix Files User's Guide* on the Nutanix Support Portal.

Note: For information on NUS Objects Prerequisites, see Objects Prerequisites and Limitation in *Nutanix Objects User's Guide* on the Nutanix Support Portal.

- Standard Smart Tiering for NUS Files requires that NUS Objects be deployed and configured within the environment
- Required certificates must be generated and made available by the customer
- Customer-provided Design Document
- Completed Pre-Install Questionnaire

Required Product Licenses

NCI and NC2 Clusters

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS) - Pro Edition required for NUS Files
- Hypervisor license for NCI

Dedicated NUS Clusters

- Nutanix Unified Storage (NUS) - Pro Edition required for NUS Files
- Hypervisor licenses for NUS

Delivered Artifacts

- Test Plan
- As-built Guide
- Configuration Workbook

Duration

Essential	Advanced
Typically 3 days	Typically 5 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Unified Storage (NUS)

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FastTrack for NUS Files

Product Code: CNS-INF-FST-FILES

At-a-Glance

Stage: Deploy

FastTrack for Nutanix Unified Storage (NUS) Files speeds up the enablement and deployment of the NUS Files data service in greenfield environments, providing scale-out distributed file storage solutions with in-depth expertise from highly skilled consultants. IT Storage teams have a choice of available deployment scenarios for on-premises NCI cluster, dedicated NUS cluster, or Nutanix Cloud Clusters (NC2). This offer is ideal during the Deploy stage of a hybrid multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with an enablement and discovery session. After the enablement session, the consultant installs and configures the NUS Files data service for one of the available scenarios. Enablement sessions require collaboration with key customer stakeholders from storage, virtualization, and application teams.

The service includes the following activities:

- Conduct NUS Files enablement and discovery session
  - Provide NUS architectural overview
  - Review NUS Files features and functionality
  - Review integration with Nutanix Cloud Infrastructure (NCI), disaster recovery (DR), and NUS Files
  - Gather and document solution requirements
- Configure and customize one of the following scenarios:
  - Deploy NUS Files and copy non-nested SMB or NFS shares and one dataset
  - Deploy NUS Files and configure and demonstrate the protection domain or Smart DR process using a non-production environment

Optional Activities

- Integrate NUS Files into existing antivirus solution using ICAP protocol

Limitations

- For each quantity purchased, deployment is limited to one NCI, dedicated NUS, or NC2 cluster for non-Smart DR configurations and 2 clusters for Smart DR environments
- Limited to greenfield environments
- Limited to one of the listed scenarios above
- Copy of one dataset limited to 25GB
- Excludes reconfiguration of client workstation(s)

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Fully supported and functional on-premises non-production NCI cluster, dedicated NUS cluster, or NC2 cluster that meets all product requirements
- Optional fully supported and functional on-premises disaster recovery NCI, dedicated NUS cluster, or NC2 cluster that meets all product requirements

  Note: For information on NUS Files Prerequisites, see Prerequisites in *Nutanix Files User's Guide* on the Nutanix Support Portal.

- Active Directory service accounts available for use by NUS Files
- Access to configure DNS, if not managed by Active Directory
- For Smart DR, both NCI and dedicated NUS clusters are managed under a single Nutanix Prism Central

Required Product Licenses

NCI and NC2 Clusters

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS) Pro Edition
- Hypervisor licenses for NCI

Dedicated NUS Clusters

- Nutanix Unified Storage (NUS) Pro Edition
- Hypervisor licenses for NUS

Delivered Artifacts

- As-built Guide

Duration

Typically up to 2 days, delivered virtually

Note: In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Unified Storage (NUS)

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NUS Migration Workshop

Product Code: CNS-NUS-A-WRK-MiG

At-a-Glance

Stage: Design

The NUS Migration Workshop offers storage teams in-depth and practical guidance to create a comprehensive storage migration plan for migrating data to one of the available Nutanix Unified Storage (NUS) data services: Objects, Volumes, or Files. This offer benefits the Migrate stage of a hybrid multicloud journey.

Related Services

- NUS Files Migration

Service Scope

Highly skilled consultants with solid storage domain expertise and rich experience begin with a discovery session that collects availability requirements, current and desired database versions, application dependencies, and maintenance windows. The consultant then conducts a workshop based on the discussions undertaken during the discovery session and creates a migration plan.

The service includes the following activities:

- Conduct a storage migration discovery session:
  - Gather and document migration requirements, constraints, assumptions, dependencies, and decisions for the migration effort
- Conduct storage migration workshop:
  - Discuss migration options and constraints for each migration method based on the database versions, operating system, and application availability
  - Assess the current state of systems to be migrated
  - Review options for migrating existing data to the planned NUS infrastructure, including recommended migration tools
  - Assess network configuration impacts and requirements
  - Develop a migration plan, process, and migration waves
  - Develop a post-migration validation plan

Limitations

- For each quantity purchased, migration planning is limited to up to 10 sources (share/bucket/LUN) of one of the supported data types listed below

Supported Data Types

- File data migrating to NUS Files
- Block data migrating to NUS Volumes
- Amazon S3-compatible bucket/object data migrating to NUS Objects

Prerequisites

- Completed NUS Migration Worksheet

Required Product Licenses

- None

Delivered Artifacts

- Migration Workbook
- Migration Plan
- Migration Test Plan

> **Note:** This offer is available with several documentation options, defined here https://www.nutanix.com/support-services/consulting-services/documentation-tiers

Duration

Typically up to 4 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Unified Storage (NUS)

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NUS Files Migration

Product Code: CNS-INF-A-SVC-MIG-FIL

At-a-Glance

Stage: Migrate

Files Migration offers IT Storage teams strong storage domain expertise to migrate unstructured file data to the Nutanix Unified Storage (NUS) Files data services which provide scale-out distributed file storage solutions. IT Storage teams can choose migration scenarios for on-premises NCI clusters, dedicated NUS clusters, or Nutanix Cloud Clusters (NC2). This offer is ideal during the Migrate stage of a hybrid multicloud journey.

Related Services

- NUS Migration Workshop

Service Scope

Highly skilled consultants with strong storage domain expertise and rich experience begin with validating the customer-provided migration plan to ensure the storage migration requirements and post-migration validation plan are accurate. The consultant then migrates the unstructured file data according to the migration plan.

The service includes the following activities:

- Validate storage migration requirements and validation plan
- Deploy migration tools (at Nutanix discretion) as required
- Migrate the unstructured file storage based on the migration plan
- Monitor the migration process via periodic touchpoints
- Remediate identified migration issues
- Execute the existing post-migration validation plan

Limitations

- Excludes migration planning
- Quantity of TiB limited to the quantity specified at the time of purchase.

Note: Migrations larger than 100 TiB are accommodated via a custom statement of work (SOW)

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Customer-provided storage migration plan

- Fully supported and functional on-premises NCI cluster, dedicated NUS cluster, or NC2 cluster that meets all product requirements

> **Note:** For information on NUS Files prerequisites, see Prerequisites in *Nutanix Files User's Guide* on the Nutanix Support Portal.

Required Product Licenses

NCI and NC2 Clusters

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS) Pro Edition
- Hypervisor licenses for NCI

Dedicated NUS Clusters

- Nutanix Unified Storage (NUS) Pro Edition
- Hypervisor licenses for NUS

Delivered Artifacts

- Migration Procedure
- Migration Summary

Duration

Typically up to 4 days

> **Note:** Migration time varies based on data volume, throughput, and number of migration waves

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Unified Storage (NUS)

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NUS Files Operations Workshop

Product Code: CNS-NUS-A-WRK-OPS

At-a-Glance

Stage: Operate

The Nutanix Unified Storage (NUS) Files Operations Workshop offers IT teams in-depth insights and practical hands-on experience to successfully operate the NUS Files environment and perform advanced operations and troubleshooting. The workshop benefits customers who want to accelerate the preparation of new or existing operations team members. This workshop is beneficial during the Operate stage of a hybrid multicloud journey.

Service Scope

Delivered by highly skilled consultants with strong domain expertise and rich experience who begin the workshop with an overview of the NUS Files architecture and proceed to deep dive into operations, advanced concepts, and troubleshooting. The workshop combines theory and hands-on labs using the customer's deployed on-premises NCI, dedicated NUS, or NC2 Cluster.

Upon completion of the workshop, operations teams will:

- Have an advanced understanding of the NUS Files architecture
- Be capable of operating the NUS Files clusters at scale
- Be comfortable with advanced NUS Files configuration
- Understand processes to follow during troubleshooting

The workshop covers the following topics and activities:

Nutanix Unified Storage Architecture Overview

- NUS Files overview
- NUS Files architecture and components
- NUS Files analytics /Data Lens overview

NUS Files Management

- Deploy and configure new NUS Files instances
- Upgrade operations
- Review the operation of shares, nested shares, multiprotocol, and features
    - How to manage continuously available shares
    - How to manage nested shares and exports
    - How to manage connected shares
- Questions and answers session, scenarios, challenges

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NUS Files Advanced Administration

- Disaster recovery (DR)
- ICAP configuration
- Data tiering
- FSVM components and services
- AFS CLI
- Log locations
- Monitoring/managing current CIFS/NFS sessions (client side only)
- Enabling SYM links

Advanced Troubleshooting

- Health checks
- How to enforce rights or ownership of files and folders
- How to troubleshoot connectivity issues between files and files analytics
- How to troubleshoot connectivity issues between files and AV (ICAP)
- Working with Nutanix Support

Nutanix Move – NUS Files Migration

- Requirements
- Unsupported features
- Creating a NUS Files migration plan
- Checking status using AFS CLI
- Perform cutover and confirm completion

Demo or Hands-on Labs

- NUS Files Management
  - Deploy and configure NUS Files instances
  - Upgrade
  - DR
  - ICAP
  - SYM Links
  - Analytics / Data Lens
- Advanced Troubleshooting Demo
  - Collecting Logs
  - Troubleshooting connectivity issues
  - Health Checks
  - Support Portal

Limitations

- For each quantity purchased, Hands-on Labs are limited to a single on-premises NCI, dedicated NUS cluster, or NC2 cluster at a single physical site
- Workshop is limited to a maximum of 10 attendees

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Fully supported and functional on-premises NCI cluster, dedicated NUS cluster, or NC2 cluster that meets all product requirements

  Note: For NUS Files prerequisites, see Prerequisites in *Nutanix Files User's Guide* on the Nutanix Support Portal.

Required Product Licenses

NCI and NC2 Clusters

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS) Pro Edition
- Hypervisor license for NCI

Dedicated NUS Clusters

- Nutanix Unified Storage (NUS) Pro Edition
- Hypervisor licenses for NUS

Delivered Artifacts

- Deployment Guide

Duration

Typically 3 days, delivered consecutively

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Unified Storage (NUS)

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Nutanix Cloud Clusters (NC2) Services

NUTANIX

NC2 Design Workshop

Product Code: CNS-NC2-A-WRK-DSGN

At-a-Glance

Stage: Design

The Nutanix Cloud Clusters (NC2) Design Workshop provides IT teams with expert, hands-on guidance to design resilient and scalable NC2 clusters on AWS or Azure. Focusing on critical areas such as scalability, integration, functionality, and operational readiness, this workshop plays a pivotal role in the Design phase of a hybrid multicloud journey, laying the foundation for a robust, future-ready architecture.

Related Services

- NC2 on AWS Deployment
- NC2 on Azure Deployment
- Nutanix Multicloud Snapshot Technology (NMST) Solution Deployment
- NCI Disaster Recovery Deployment

Service Scope

Highly skilled consultants with specialized domain knowledge and proven industry experience facilitate a series of collaborative design workshops to define solution requirements and align on desired outcomes. These sessions engage key customer stakeholders across cloud, architecture, virtualization, and networking domains. Following the workshops, the consultant delivers a Configuration Workbook detailing environment-specific parameters and a comprehensive Design Document encompassing the conceptual, logical, and physical architecture of the solution.

Essential Edition

For customers seeking a foundational infrastructure design, this design workshop supports a single NC2 cluster deployed within a single availability zone, either as a standalone environment or as a single cluster disaster recovery (DR) target for on-premises or NC2 workloads.

The Essential Edition includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
- Develop NC2 architecture, including interoperability, security, and scalability for future growth
- Define integration with Active Directory (AD)/lightweight directory access protocol (LDAP) and domain name service (DNS) environments
- Develop NC2 cluster design
- Design cluster virtual networking
- Design public cloud platform connectivity, including mapping of network constructs from on-premises NCI to public cloud
- Design public cloud platform resource access and usage
- Design virtual storage, including container layout and associated storage optimization features

- Design management plane and operations dependencies, including multicloud manager (MCM) for NC2
- Design security, including data-at-rest encryption, SSL certificates, password complexity, and syslog integration
- Develop a plan for system functional validation testing
- Design Presentation session

Azure-specific activities

- Plan Integration with Nutanix Flow Virtual Networking (FVN) virtual private cloud (VPC)

Advanced Edition

For customers requiring an essential infrastructure design that leverages multiple NC2 clusters, this design workshop supports deployments within a single or across multiple availability zones. It accommodates various use cases, including:

- DR targets for existing on-premises NCI environments to multiple NC2 clusters
- DR between NC2 clusters for enhanced resilience and flexibility

The Advanced Edition includes the following activities:

- Everything included in the Basic Edition
- Validate cluster sizing based on workload details provided by the customer
- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*
- Plan for VM backup and data protection
- Design cloud access controls

Enterprise Edition

For customers seeking a more comprehensive infrastructure design with advanced networking capabilities and workload migration including:

- Migration of existing workloads
- Layer 2 network extensions
- Nutanix Flow Network Security (FSN) microsegmentation

The Enterprise Edition includes the following activities:

- Everything included in the Essential and Basic Editions
- Assess the current state of virtualization elements included in the design
- Design to support the migration of existing workloads and storage into the new environment
    - Review the existing environment at a high level to support sizing
    - Develop high-level migration methodology
- Design role-based access control (RBAC) and Nutanix categories/tagging
- Design for Advanced Nutanix FVN VPC (AWS or Azure)

Optional Activities for the Enterprise Edition

- Plan Layer 2 extensions to public cloud for migration or DR testing

- Design for Nutanix FNS Microsegmentation

Site Design Topology

Each edition supports options for a single site or multisite DR topology design.

- Single Site
  - Single site design in a single availability zone
- Multisite
  - DR active/active, active/passive
  - Gather recovery point objective (RPO) and recovery time objective (RTO) requirements for workloads, including DR and replication considerations
  - Including Nutanix FVN VPC configurations spanning multiple availability zones (Enterprise Edition only)

Optional Activities for AWS Multisite

- For AWS multisite disaster recovery (DR) site topology, design multicloud snapshot technology (MST) DR zero-compute or pilot light deployment

Limitations

- Limited to general virtualization design.

  Note: For workload-specific solutions, tailored design offerings are available including *Database Design Workshop, EUC Broker Design Workshop*, and *AI/ML Design Workshop*.

- Excludes design for on-premises environments

  Note: On-premises or hybrid-cloud design is included in the *Infrastructure Design* offer

- Excludes detailed migration planning

  Note: Detailed planning, including migration wave planning, is available as part of the *Virtual Machine Migration Workshop* offer

- Development of security policies, VPCs, static routes, and categories is limited to 10 applications.

Single Site Design Topology

- Essential Edition
  - For each quantity purchased, design is limited to a single NC2 cluster deployed within a single availability zone.
- Advanced and Enterprise Edition
  - For each quantity purchased, design is limited to multiple NC2 clusters in a single public cloud availability zone

Multisite DR Design Topology

- Categorization of individual workloads to DR policies is limited to 10 applications.

  Note: Additional application categorization is available as part of the *NCI Disaster Recovery Design Workshop* offer.

- Essential Edition
  - For each quantity purchased, design is limited to a single NC2 cluster in a public cloud availability zone serving as a DR target for an existing on-premises NCI cluster
- Advanced and Enterprise Edition
  - For each quantity purchased, design is limited to multiple NC2 clusters across public cloud availability zones serving as a DR target for an existing on-premises NCI cluster or DR between NC2 clusters

Supported Hypervisors

- Nutanix AHV

Supported Cloud platforms

- Amazon AWS
- Microsoft Azure

Prerequisites

- None

Related Product Licenses

- None

Delivered Artifacts

- Configuration Workbook
- High-Level Design Presentation
- Design Document (Standard Documentation only)
- Deployment Readiness Checklist

Duration

Site Topology/ Documentation Type	Basic	Essential	Advanced
Single Site Workshop Documentation	Typically up to 3 days	Typically up to 4 days	Not Applicable
Single-Site Standard Documentation	Typically up to 5 Days	Typically up to 7 days	Typically up to 9 days
Multisite DR Workshop Documentation	Typically up to 4 days	Typically up to 5 days	Not Applicable

Site Topology/ Documentation Type	Basic	Essential	Advanced
Multisite DR Standard Documentation	Typically up to 7 days	Typically up to 9 days	Typically up to 12 days

Delivery Type

Delivery Type	Basic	Essential	Advanced
Virtual	Virtual Workshop Virtual Documentation	Virtual Workshop Virtual Documentation	Virtual Workshop Virtual Documentation
In-person	In-person Workshop Virtual Documentation	In-person Workshop Virtual Documentation	In-person Workshop Virtual Documentation

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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NC2 on AWS Deployment

Product Code: CNS-INF-A-SVC-DEP-NC2A

At-a-Glance

Stage: Deploy

The Nutanix Cloud Clusters (NC2) on Amazon Web Services (AWS) Deployment Service streamlines the deployment of NC2 to support enterprise applications and workloads on AWS EC2 Bare Metal instances. This service includes seamless integration with existing infrastructure components, ensuring a cohesive hybrid environment. It is ideally suited for the Deploy phase of the hybrid multicloud journey, enabling faster time-to-value and operational readiness.

Related Services

- NC2 Design Workshop
- Infrastructure Design Workshop
- NCI Disaster Recovery Deployment

Service Scope

Expert consultants with deep domain expertise and industry experience begin by deploying the NC2 on AWS cluster in accordance with Nutanix best practices and the customer-approved design document. Following deployment, the consultant delivers a customized As-built Guide and updates the Configuration Workbook to accurately document the final NC2 cluster configuration, ensuring clarity and consistency for ongoing operations.

The service includes the following activities

- Deploy and configure an NC2 cluster on AWS:
- Provide guidance for configuring the Cloud account, including identification of AWS account / virtual private cloud (VPC)
- Create AWS entities for NC2 landing zone
- Create a new VPC
- Create subnets
- Create network address translation (NAT) and internet gateway (IGW)
- Configure route tables
- Configure my.nutanix.com workspace and subscribe to the NC2 solution
- Add the AWS account as a cloud account in the NC2 management console and run Cloud Formation template
- Deploy a Nutanix cluster on AWS via the NC2 Console to an existing VPC
- Deploy Prism Central or integrate to an existing compatible Prism Central
- Deploy AWS Route 53 domain name server (DNS) resolvers to integrate on-premises DNS, if required

- Deploy and integrate with existing virtual private network (VPN) or Direct Connect
- Integrate with the following existing infrastructure components:
  - Integrate with lightweight directory access protocol (LDAP) using existing Active Directory (AD)
- Complete NC2 subscription and license reservation, if applicable
- Test and validate the deployed NC2 cluster

Optional Activities

- Deploy and integrate Flow Virtual Networking (FVN) with existing VPN or Direct Connect (transit gateway required)
- Integrate with simple mail transfer protocol (SMTP) using an existing mail relay

Limitations

- For each quantity purchased, deployment is limited to a single NC2 cluster on AWS with a maximum of 28 nodes and:
  - 2 AWS Route 53 DNS resolvers
  - 2 AWS virtual private gateways with up to 6 static or 6 dynamic routes
  - Up to 6 native AWS subnets or Nutanix FVN overlay subnets (NAT or NoNAT)
- Excludes creation of or updates to existing Design Documents
- Excludes on-premises routing and VPN endpoint/firewall configuration

Prerequisites

- Environment that meets Deployment Readiness Checklist

  Note: The Deployment Readiness Checklist is delivered as part of the NC2 Design Workshop or the Infrastructure Design Workshop. Activities identified in the checklist must be completed prior to deployment.

- Existing deployed VPN or Direct Connect
- Customer-provided NC2 Design Document
- Completed Pre-Install Questionnaire
- AWS account with sufficient CPU quota

  Note: For information on the NC2 deployment prerequisites, see NC2 on AWS Requirements in the *Nutanix Cloud Clusters on AWS Deployment and User Guide* on the Nutanix Support Portal.

Related Product Licenses

- Nutanix Cloud Infrastructure (NCI)

Delivered Artifacts

- Test Plan
- As-built Guide
- Configuration Workbook

Duration

Typically up to 3 days, delivered virtually

Related Products

- Nutanix Cloud Infrastructure (NCI)

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NC2 on Azure Deployment

Product Code: CNS-INF-A-SVC-DEP-NC2Z

At-a-Glance

Stage: Deploy

The Nutanix Cloud Clusters (NC2) on Microsoft Azure Deployment Service accelerates the rollout of NC2 environments on Azure Bare Metal, enabling seamless support for enterprise applications and workloads. This service includes integration with existing infrastructure components to ensure a cohesive hybrid environment. It is ideally suited for the Deploy phase of the hybrid multicloud journey, helping organizations move quickly and confidently to the cloud.

Related Services

- NC2 Design Workshop
- Infrastructure Design Workshop
- NCI Disaster Recovery Deployment

Service Scope

Expert consultants with deep domain expertise and industry experience begin by deploying the NC2 on Azure cluster in alignment with Nutanix recommended practices and the customer-approved Design Document. Upon successful deployment, the consultant delivers a tailored As-Built Guide and updates the Configuration Workbook to accurately reflect the final NC2 cluster configuration, ensuring clear documentation for ongoing operations and support.

The service includes the following activities

- Deploy and configure an NC2 cluster on Azure:
  - Provide guidance for configuring cloud account, including subscriptions and whitelisting
  - Create Azure entities for NC2 landing zone
  - Create a new Azure resource group
  - Create new Azure vNets
  - Create subnets with appropriate delegation
  - Deploy and assign network address translation (NAT) gateway to subnets
  - Create Azure app registrations
  - Register Azure resource providers
  - Configure my.nutanix.com workspace and subscribe to the NC2 solution
  - Add the Azure subscription as a cloud account in the NC2 Management Console
  - Deploy a Nutanix cluster on Azure via the NC2 console to an existing subscription
  - Deploy Prism Central on Azure to or integrate with an existing compatible Prism Central on Azure
  - Deploy and configure Flow Virtual Networking (FVN) virtual public cloud (VPC)

- Deploy and integrate Nutanix Flow Gateway with existing virtual private network (VPN) or Express Route
- Integrate with LDAP using existing Active Directory (AD)
- Complete NC2 subscription and license reservation, if applicable
- Test and validate the deployed NC2 cluster

Optional Activities

- Integrate into Azure Route Server, vWAN or customer-owned firewall network virtual appliance
- Integrate with simple mail transfer protocol (SMTP) using an existing mail relay

Limitations

- For each quantity purchased, deployment is limited to a single NC2 cluster on Azure.
- Maximum of 28 nodes and 6 subnets (NAT or NoNAT)
- Excludes creation of or updates to existing Design Documentation
- Excludes on-premises routing and VPN endpoint/firewall configuration

Prerequisites

- Environment that meets Deployment Readiness Checklist

> **Note:** The Deployment Readiness Checklist is delivered as part of the NC2 Design Workshop or the Infrastructure Design Workshop. Activities identified in the checklist must be completed prior to deployment.

- Customer-provided NC2 Design Document
- Completed Pre-Install Questionnaire
- Configured MyNutanix account to access the NC2 console
- Azure account with an active subscription
- Azure Entra ID and permissions to create an app registration in Azure AD with access to the new subscription
- Connectivity between on-premises datacenter and Azure

> **Note**: For information on the NC2 on Azure deployment prerequisites, see the NC2 Deployment Prerequisites in the *Nutanix Cloud Clusters on Azure Deployment and User Guide* on the Nutanix Support Portal.

Related Product Licenses

- Nutanix Cloud Infrastructure (NCI)

Delivered Artifacts

- Test Plan
- As-built Guide
- Configuration Workbook

Duration

Typically up to 4 days, delivered virtually

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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VMC on AWS to NC2 Migration Bundle Enterprise Edition

Product Code: CNS-INF-B-VMC-MIG

At-a-Glance

Stage: Design, Deploy, and Migrate

The VMware Cloud (VMC) to Nutanix Cloud Clusters (NC2) Migration Bundle Enterprise Edition offers IT teams a comprehensive solution for designing and deploying NC2 to support applications and workloads running on an Amazon Web Services (AWS) Elastic Cloud Compute (EC2) Bare-Metal instance in preparation for migrating workloads from VMC on AWS to NC2 on AWS. This bundle is ideal for the Design, Deploy, and Migrate stages of the hybrid multicloud journey.

Related Services

- Virtual Machine Migration
- Database Design Workshop
- EUC Broker Design Workshop
- NUS Deployment

Service Scope

A series of design workshops is delivered by highly skilled consultants with strong domain expertise and rich experience to ensure that the solution requirements and required outcomes are identified. Design workshops require collaboration with key customer stakeholders from architecture, virtualization, and networking teams. After the design workshop, the consultant develops a Nutanix Design Document and Configuration Workbook that addresses conceptual, logical, and physical solution design elements.

The consultant then conducts a discovery session that collects migration requirements, current and desired guest operating system (OS) versions, application dependencies, and maintenance windows. This session is a collaborative discussion with key customer stakeholders. Following the discovery session, the consultant conducts a workshop, selects the migration tool, and creates a Migration Plan.

The consultant begins the deployment of the NC2 on AWS cluster according to Nutanix-recommended practices and the Design Document. This includes configuring for disaster recovery (DR) as well as deploying Flow Virtual Networking and Flow Network Security Microsegmentation. After the deployment, the consultant creates a customized As-built Guide and updated Configuration Workbook to document the final configuration of the NC2 cluster.

The consultant then migrates the virtual machines (VMs) according to the Migration Plan.

The service includes the following activities:

Infrastructure Design Workshop

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
- Develop NC2 architecture, including interoperability, security, and scalability for future growth

- Define integration with Active Directory (AD)/light-weight directory access protocol (LDAP) and IP address management (IPAM)/domain name service (DNS) environments
- Develop NCI or NC2 cluster design
- Design virtual networking, including integration with the physical network
- Design public cloud platform connectivity, including mapping network constructs from on-premises NCI to public cloud, as required
- Design public cloud platform resource access and usage (NC2 only)
- Design virtual storage, including container layout, compression, and de-duplication
- Validate cluster sizing based on workload details provided by the customer
- Plan Controller Virtual Machine (CVM) and AHV security hardening and compliance as per the *Nutanix Security Operations Guide*

  Note: For security hardening and compliance requirements, see *Nutanix Security Operations Guide* on the Nutanix Support Portal.
- Design management plane and operations dependencies, including Multicloud Manager (MCM) for NC2
- Develop a plan for system functional validation testing
- Design security, including data-at-rest encryption, SSL certificate, password complexity, and syslog
- Assess the current state of elements included in the design
- Assess datacenter infrastructure and rack design
- Plan for VM and data protection
- Design to support the migration of existing workloads and storage into the new environment
  - Review the existing environment at a high level to support sizing
  - Develop high-level migration methodology
- Design role-based access control (RBAC) and Nutanix categories/tagging
- Design security and required cloud access controls
- Design for DR active/active, active/passive, or hub-spoke design configuration
  - Including data replication for NUS data services (Objects, Volumes, or Files)
  - Including Flow Virtual Networking VPC configurations spanning multiple locations (Advanced Edition only)
  - Gather RPO and RTO requirements for workloads, including DR and replication considerations
- Optional services include:
  - Design for Nutanix Flow Virtual Networking VPC
  - Design for Nutanix Flow Network Security Microsegmentation

VM Migration Workshop

- Conduct a VM migration discovery session:
  - Gather and document migration requirements, constraints, assumptions, dependencies, and decisions for the migration effort

  - Assess the current state of systems to be migrated
- Conduct a VM migration workshop:
  - Review options for migrating existing virtual and physical machines to the planned Nutanix Cloud Platform (NCP)
  - Assess network configuration impacts and requirements
  - Select a migration tool
  - Develop a Migration Plan and process, rollback plans, and migration wave(s)
  - Develop a post-migration validation plan

NC2 on AWS Cluster Deployment

- Deploy and configure an NC2 Cluster on AWS
  - Deploy Nutanix Cluster on AWS via the NC2 Console
  - Register to a compatible existing Prism Central
  - Deploy AWS Route 53 domain name service (DNS) resolvers to integrate on-premises DNS
  - Configure AWS virtual private gateways with static or dynamic routes
  - Create a new AWS VPC
  - Create subnets
  - Assign network address translation (NAT) and Internet gateways
  - Create identity and access management (IAM) roles in AWS
  - Map the AWS account into the NC2 Console
- Integrate with the following existing infrastructure components:
  - Integrate with light-weight directory access protocol (LDAP) using existing Active Directory
  - Integrate with SMTP using an existing mail relay
  - Assist with AWS VPN endpoint configuration

DR Deployment - Asynchronous or NearSync Solution

- Review customer-provided DR Design Documentation, RPO, and RTO requirements
- Review sizing for Nutanix snapshots
- Review requirements for Nutanix Guest Tools (NGT)
- Based upon customer-provided DR design:
  - Configure availability zones
  - Configure protection policies
  - Configure recovery plans
  - Configure custom IP mappings
- Deploy and integrate Prism Central, as required
- Test and validate recovery of nonproduction-protected VMs

Optional Activities for Async/NearSync Solution

- Install NGT (requires supported guest operating systems)

Flow VPC Deployment

- Configure Flow Virtual Networking on 2 Prism Central instances
  - Integrate Flow Virtual Networking into an existing DNS service
  - Create an external network (NAT)
  - Create VPCs
  - Create subnets
  - Configure and assign floating IPs
- Create policy-based routing policies for the following use cases:
  - Traffic flow between subnets
  - Traffic flow in/out of a VPC
- Create and execute a Flow Virtual Networking Test Plan to validate the solution
- Configure a VPN endpoint between Prism Central instances

Flow Network Security Microsegmentation Deployment

- Enable and license Nutanix Flow Network Security on the deployed NC2 cluster, if needed
- Execute the deployment plan, process, and deployment waves
  - Configure categories and apply them to VMs as defined in the plan
  - Configure policies as defined in the plan
  - Conduct testing and validation of the policies
- Execute the existing post-migration validation plan

Optional Activities for Flow FNS Deployment

- Enable Flow Network Security Central

VM Migration

- Validate VM migration requirements and validation plan
- Deploy migration tools as required according to the Migration Plan
- Configure infrastructure as required by the Migration Plan
- Migrate the VMs based on the Migration Plan
- Monitor the migration process via periodic touchpoints
- Remediate identified migration issues
- Execute the existing post-migration validation plan

Limitations

- For each quantity purchased, the bundle is limited to a single production environment spanning multiple physical sites, public cloud regions, availability zones, or resource locations

Infrastructure Design Workshop

- Limited to general virtualization.

Note: Database workloads and end user computing (EUC) workload designs are available via the *Database Design Workshop* and *EUC Broker Design Workshop* services, respectively.

- For each quantity purchased, design is limited to a single production environment spanning multiple physical sites, public cloud regions, availability zones, or resource locations
- Design is limited to 2 distinct site patterns, though multiple instances of each pattern can be deployed, which is common for hub-spoke or branch office architectures.

VM Migration Workshop

- Migration planning is limited to 500 VMs.
- Detailed planning for database- and application-specific migrations is available via separate application-specific service offers

NC2 on AWS Cluster Deployment

- Deployment is limited to 2 physical sites and 2 NC2 clusters on AWS with a maximum of 28 nodes in each site and:
  - 2 AWS Route 53 DNS resolvers
  - 2 AWS virtual private gateways with up to 6 static or 6 dynamic routes
  - 6 subnets
- Excludes creation or updates to existing Design Documents
- Excludes on-premises routing and VPN endpoint/firewall configuration

Flow VPC Deployment

- Configuration for each Prism Central instance limited to:
  - A single external network (NAT)
  - 5 VPCs, 10 subnets per VPC, and 5 floating IPs per VPC
  - 5 floating IPs per VPC and up to 10 VMs
  - 5 policy-based routing policies
- VPN endpoint configuration is limited to the Nutanix VPN gateway

VM Migration

- Migration must occur as a single contiguous migration wave
- Migration is limited to up to 5 VMs or up to 2.5TiB of total data Migration is limited to 5 VMs or 2.5TiB

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Amazon Web Services (AWS) account with sufficient CPU quota
- At least one external VLAN accessible from Prism Central
- Access to customer networking team to implement static routes
- Prism Central and Prism Element time synced

- Active Directory domain and user group requirements as required for the VDI policy
- Production and Test virtual networks already configured
- Fully supported and functional source environment
- Operating systems are supported by both NCI and the selected migration tool

> **Note:**
>
> For information on the NC2 deployment prerequisites, see NC2 on AWS Requirements in the *Nutanix Cloud Clusters on AWS Deployment and User Guide* on the Nutanix Support Portal.
>
> For information on the requirements for configuring Nutanix Disaster Recovery, see Disaster Recovery Requirements in the *Nutanix Disaster Recovery Guide* on the Nutanix Support Portal.
>
> For information on the requirements for configuring NCI Flow Virtual Networking, see *Prerequisites for Flow Virtual Networking* on the Nutanix Support Portal.
>
> For information on the requirements for configuring NCI Flow Network Security, see the *Flow Microsegmentation Guide* on the Nutanix Support Portal.
>
> For information on the requirements for using Nutanix Move, see *Move User Guide* on the Nutanix Support Portal.
>
> For information on the supported guest operating systems, see *Nutanix Compatibility and Interoperability Matrix* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI) Pro or Ultimate Edition

Delivered Artifacts

- Configuration Workbook
- Design Document
- As-built Guide
- Migration Procedure
- Migration Summary

Duration

Typically up to 42 days

> **Note**: All deployment and migration activities are delivered virtually

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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Nutanix Kubernetes Platform (NKP) & Kubernetes Platform Services

NUTANIX

NKP Design Workshop

Product Code: CNS-CLDN-A-WRK-DSGN

At-a-Glance

Stage: Design

The Nutanix Kubernetes Platform (NKP) Design Workshop offers Cloud Native teams in-depth and practical guidance to create a comprehensive design for NKP. The service covers various key design aspects such as performance, scalability, flexibility, integration, and operational needs. This workshop is beneficial during the Design stage of the hybrid multicloud journey.

Related Services

- Nutanix Kubernetes Platform Deployment
- Infrastructure Design
- NUS Design

Service Scope

Highly skilled consultants with solid Kubernetes domain expertise and rich experience deliver design workshops to ensure that the solution requirements and required outcomes are identified. Design workshops require collaboration with key customer stakeholders in architecture, virtualization, security, and development operations. After the design workshop, the consultant develops a Design Document and a Configuration Workbook that addresses conceptual, logical, and physical Kubernetes design elements.

The completed design can be deployed multiple times in various environments, such as development, testing, and production.

Essential Edition

For customers who want to deploy NKP on an on-premises Nutanix Cloud Infrastructure (NCI) or Nutanix Cloud Clusters (NC2) cluster.

The Essential Edition includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in the workshop
  - Review containerized workload use case system resource requirements with customer application owners
  - Assess NKP Control Plane, Workers, and infrastructure nodes quantity and capacity requirements based on solution sizing
- Develop NKP architecture, including Cluster API (CAPI) provisioning method, interoperability, security, and scalability for future growth
- Identify integration required for the customer-supplied identity provider (IdP) used for cluster-based authentication
- Identify virtual networking for NKP nodes (east-west / north-south)
  - Plan communications for NKP Control Plane and Workers

- Identify virtual storage for NKP nodes and containerized workload design
- Plan default container storage interface (CSI) integration-based solution for NKP
- Identify an NKP image registry solution as needed
- Plan SSL certificate strategy
- Develop a validation plan

Advanced Edition

The Advanced Edition is for customers who want to deploy NKP on a supported cloud or on-premises infrastructure provider, including NKP Platform Applications.

The Advanced Edition includes the following activities:

- Everything in the Essential Edition
- Identify an NKP Compute base machine template, as needed
- Review Graphics Processing Unit (GPU)-targeted containerized workload use cases and assess NKP Worker node pools, quantity, and capacity requirements based on solution sizing, as needed
- Design an NKP backup strategy using the default provided NKP backup solution

Enterprise Edition

The Enterprise Edition is for customers who want to deploy NKP on a supported cloud or on-premises infrastructure provider. It includes NKP Platform Applications and multicluster management capabilities.

The Enterprise Edition includes the following activities:

- Everything in the Advanced Edition
- Design NKP multitenancy model, including role-based access control (RBAC) policy
- Review containerized workload use cases and assess NKP Worker node pools, quantity, and capacity requirements for the NKP management cluster and managed workload clusters based on solution sizing
- Document observability design elements for centralized monitoring and logging as they pertain to the designed multitenancy model

Limitations

- Excludes continuous integration (CI) design of containerized workloads
- Excludes CAPI infrastructure provisioner design
- Selected CAPI provisioner must support the hardware platform where NKP will be deployed
- Excludes considerations that would require customization or enhancement of the existing Nutanix products' capabilities

Essential Edition

- For each quantity purchased, design is limited to a single on-premises NCI or NC2 Cluster in a single physical site or cloud region
- Containerized workload system requirements review limited to up to 3 applications
- Excludes continuous delivery design of containerized workloads

- Cluster API provisioning method limited to the Nutanix infrastructure

Advanced Edition

- For each quantity purchased, deployment is limited to a single provider type and up to 2 physical sites or cloud regions

  Note: For more than a single provider type or 2 locations/sites, a custom statement of work (SOW) is required

- Containerized workload system requirements review limited to up to 5 applications
- Excludes continuous delivery design of containerized workloads
- NKP Compute base machine template design limited to a single template
- GPU workload-related design limited to a single node pool

Enterprise Edition

- For each quantity purchased, design is limited to up to 2 locations/sites and 2 supported providers

  Note: For more than 2 locations/sites or provider types, a custom SOW is required

- Containerized workload system requirements review limited to up to 8 applications
- NKP Compute base machine template design limited to a single template per provider type
- GPU workload-related design limited to a single node pool per provider type
- NKP multitenancy model design limited to a single NKP managed environment (1 NKP management cluster)
- Additional provider location/site and cluster design limited to up to 1 NKP workload cluster per provider
- NKP multitenancy design limited to up to 1 NKP workspace and 2 NKP projects
- RBAC design limited to up to 3 default NKP RBAC personas and via the NKP user interface (UI)
- Excludes continuous delivery design of containerized workloads outside of default NKP-supported methods

Supported On-premises Providers

- Nutanix Cloud Infrastructure (NCI)

Advanced and Enterprise Edition

- Pre-provisioned
- VMware Cloud Director
- VMware vSphere

Supported Public Cloud Providers

- Nutanix Cloud Customers (NC2)

Advanced and Enterprise Edition

- Amazon Web Services (AWS)
- Microsoft Azure

- Google Cloud Platform (GCP)

Enterprise Edition

- Amazon Elastic Kubernetes Service (EKS)
- Microsoft Azure Kubernetes Services (AKS)

Prerequisites

- Targeted containerized workload use cases have been identified
- Customer-provided Infrastructure, Storage, and Networking Design Document

Required Product Licenses

Essential Edition

- Nutanix Kubernetes Platform Starter

Advanced Edition

- Nutanix Kubernetes Platform Pro

Enterprise Edition

- Nutanix Kubernetes Platform Ultimate

Delivered Artifacts

- Configuration Workbook
- Design Document

Duration

Essential	Advanced	Enterprise
Typically up to 3 days, delivered virtually	Typically up to 4 days, delivered virtually	Typically up to 5 days, delivered virtually

Note: In-person delivery may incur additional charges.

Related Products

- Nutanix Kubernetes Platform (NKP)
- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Unified Storage (NUS)
- Nutanix Database Services (NDB)

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NKP Deployment

Product Code: CNS-CLDN-A-SVC-DEP

At-a-Glance

Stage: Deploy

The Nutanix Kubernetes Platform (NKP) Deployment service accelerates the deployment of NKP on a supported hardware platform for a supported on-premises or cloud infrastructure provider, including Nutanix Cloud Infrastructure (NCI) or Nutanix Cloud Clusters (NC2) clusters. This offer is ideal for the Deploy stage of the hybrid multicloud journey.

Related Services

- Nutanix Kubernetes Design Workshop
- Infrastructure Deployment
- NC2 Deployment
- NUS Deployment

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin by deploying NKP according to Nutanix recommended practices and the customer-provided Design Document. After the deployment, the consultant creates a customized As-built Guide and Configuration Workbook to document the final configuration of the cluster(s)

Essential Edition

For customers who want to deploy NKP on an on-premises NCI or NC2 cluster.

The Essential Edition includes the following activities:

- Review customer-provided Design and Configuration documentation
- Set up/configure NKP deployment host for NKP cluster deployments
- Seed a single NKP image registry, if required
- Deploy a single NKP-supported Cluster API (CAPI) provisioned NKP cluster
- Configure the default supported container storage interface (CSI) based on the CAPI provisioning method used
- Configure NKP-based identity provider (IdP) authentication
- Provide Knowledge Transfer (KT) session on the NKP UI, to include cluster creation, identity provider authentication, user token generation, and resource alerts

Advanced Edition

The Advanced Edition is for customers who want to deploy NKP on a supported cloud or on-premises infrastructure provider, including NKP Platform Applications.

The Advanced Edition includes the following activities:

- Everything in the Essential Edition
- Configure an NKP Compute node machine set
- Deploy NKP Platform Applications
- Configure NKP licensing
- Configure NKP banner
- Provide KT session on NKP Disaster Recovery (DR) backups, to include example namespace backup and restore
- Provide KT session on NKP observability (monitoring and logging)

Enterprise Edition

The Enterprise Edition is for customers who want to deploy NKP on a supported cloud or on-premises infrastructure provider. It includes NKP Platform Applications and multicluster management capabilities.

The Enterprise Edition includes the following activities:

- Everything in the Advanced Edition
- Deploy a single NKP workload cluster using the same CAPI provisioning method
- Configure an NKP Workspace and Projects
- Configure NKP user interface (UI)-based role-based access control (RBAC)
- Provide KT session on NKP provided Kubecost and Insights

Limitations

- Selected CAPI provisioner must support the hardware platform
- Excludes continuous integration (CI) design of containerized workloads
- Excludes configurations requiring customization or enhancements of the existing product's capabilities
- KT session limited to NKP out-of-box functionality

Essential Edition

- For each quantity purchased, deployment is limited to a single on-premises NCI or NC2 Cluster in a single physical site or cloud region
- Cluster API provisioning method limited to the Nutanix infrastructure
- Configuration of the NKP product is limited to the features available in the NKP Starter license
- Configure up to 2 storage classes for NUS Volumes
- Configure up to 2 volume snapshot storage classes for NUS Volumes
- Configure up to 1 NKP-supported IdP source for cluster authentication

Optional Activity Limitations for Essential Edition

- Configure up to 2 storage classes for NUS Files

Advanced Edition

- For each quantity purchased, deployment is limited to a single provider type in a single physical site or cloud region
- Configuration of the NKP product is limited to the features available in the NKP Pro license
- Configure up to 1 default storage class based on the CAPI provider method used

  Note: If CAPI is on Nutanix infrastructure, the limitations listed for the Essential edition apply
- Configure up to 1 NKP compute node machine set

Enterprise Edition

- For each quantity purchased, deployment is limited to a single provider type in a single physical site or cloud region

  Note: For more than 1 provider type, a custom statement of work (SOW) is required
- Configure up to 1 default storage class based on the CAPI provider method used

  Note: If CAPI is on Nutanix infrastructure, the limitations listed above for the Essential edition apply
- Configure up to 1 NKP Workspace
- Configure up to 2 NKP Projects
- Configure up to 3 NKP out-of-the-box RBAC personas

Supported On-premises Providers

- Nutanix Cloud Infrastructure (NCI)

Advanced and Enterprise Edition

- Pre-provisioned
- VMware Cloud Director
- VMware vSphere

Supported Public Cloud Providers

- Nutanix Cloud Customers (NC2)

Advanced and Enterprise Edition

- Amazon Web Services (AWS)
- Microsoft Azure
- Google Cloud Platform (GCP)

Enterprise Edition

- Amazon Elastic Kubernetes Service (EKS)
- Microsoft Azure Kubernetes Services (AKS)

Prerequisites

- Fully supported and functional on-premises NCI cluster or NC2 cluster that meets all product requirements for NKP
- Fully supported and functional NUS Files or Objects deployment that meets requirements for NKP

> **Note:** For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.
>
> **Note:** For information on NUS Files Prerequisites, see Prerequisites in *Nutanix Files User's Guide* on the Nutanix Support Portal.
>
> **Note:** For information on NUS Objects Prerequisites, see Objects Prerequisites and Limitation in *Nutanix Objects User's Guide* on the Nutanix Support Portal.
>
> **Note**: For information on the requirements for deploying NKP, see Basic Installations by Infrastructure in the *Nutanix Kubernetes Platform Guide* on the Nutanix Support Portal.

- Fully supported and functional on-premises Prism Central instance

> **Note:** For information on the requirements for configuring NCM Intelligent Operations, see Prism Central Installation *or* Upgrade in *Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Customer-provided Infrastructure, Storage, Networking, and NKP Design Document
- Completed Pre-Install Questionnaire

Required Product Licenses

Essential Edition

- Nutanix Kubernetes Platform Starter

Advanced Edition

- Nutanix Kubernetes Platform Pro

Enterprise Edition

- Nutanix Kubernetes Platform Ultimate

Delivered Artifacts

- As-built Guide
- Configuration Workbook

Duration

Essential	Advanced	Enterprise
Typically up to 3 days, delivered virtually	Typically up to 5 days, delivered virtually	Typically up to 7 days, delivered virtually

> **Note:** In-person delivery may incur additional charges.

Related Products

- Nutanix Kubernetes Platform (NKP)
- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Unified Storage (NUS)
- Nutanix Database Services (NDB)

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Kubernetes Platform Design Workshop for Red Hat OpenShift

Product Code: CNS-INF-A-WRK-K8

At-a-Glance

Stage: Design

The Kubernetes Platform Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for the Kubernetes Platform for Red Hat OpenShift on Nutanix Cloud Infrastructure (NCI). It covers various aspects such as performance, scalability, flexibility, integration, and operational needs. This workshop is beneficial during the Design stage of the hybrid multicloud journey.

Related Services

- Kubernetes Platform Deployment for Red Had OpenShift

Service Scope

The Design workshop is delivered by highly skilled consultants with strong domain expertise and rich experience to ensure that the solution requirements and required outcomes are identified. Design workshops require collaboration with key customer stakeholders from architecture, virtualization, security, and develop operations. After the design workshop, the consultant develops a Nutanix Design Document for the Kubernetes platform and a Configuration workbook that addresses conceptual, logical, and physical Kubernetes design elements.

Red Hat OpenShift

For customers who want to deploy Red Hat OpenShift Container Platform (OCP) to on-premises Nutanix Cloud Infrastructure (NCI).

The service includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in the workshop
  - Review targeted containerized workload use cases
  - Assess Red Hat OpenShift Control Plane, Workers, and infrastructure nodes quantity and capacity requirements based on solution sizing
- Develop NCI architecture, including interoperability, security, and scalability for future growth
- Define integration with AD/LDAP and IPAM/DNS environments
- Design virtual networking for Red Hat OpenShift nodes
  - Plan Container Network Interface (CNI) solution for OpenShift
  - Plan north-south communications for the default OpenShift router
- Develop virtual storage for Red Hat OpenShift nodes and containerized workload design
- Plan Nutanix Container Storage Interface (CSI) integration-based solution for OpenShift
- Design Red Hat Image Registry solution integration

- Plan a secure sockets layer (SSL) certificate strategy
- Develop a validation plan

Limitations

- For each quantity purchased, design is limited to a single on-premises Kubernetes Platform design in a single physical site
- The design can be deployed multiple times in various environments, such as development, test, and production
- Continuous Integration/Continuous Delivery (CI/CD) pipeline or containerized workload deployment is excluded
- Excludes NCI Cluster design

Prerequisites

- Containerized workload use cases have been identified
- Workshop requires key stakeholders from virtualization, network and security, DevOps, and engineering

Required Product Licenses

- None

Delivered Artifacts

- Configuration Workbook
- Design Document (standard documentation only)

Duration

Typically 5 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS)

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Kubernetes Platform Deployment for Red Hat OpenShift

Product Code: CNS-INF-A-SVC-K8

At-a-Glance

Stage: Deploy

The Kubernetes Platform Deployment service accelerates the deployment of a Kubernetes platform to Nutanix Cloud Infrastructure (NCI). Highly skilled consultants deploy the Kubernetes platform to on-premises NCI clusters that run on supported hardware platforms. This offer is ideal for the Deploy stage of the hybrid multicloud journey.

Related Services

- Kubernetes Platform Design Workshop for Red Hat

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin deploying a Kubernetes Platform to a supported hypervisor according to Nutanix recommended practices and the customer-provided Design Document. After the deployment, the consultant creates a customized As-built Guide and updated Configuration workbook to document the final configuration of the Kubernetes platform.

Red Hat OpenShift

For customers who want to deploy Red Hat OpenShift Container Platform (OCP) to a single on-premises NCI cluster according to customer-provided design and configuration documentation.

The service includes the following activities:

- Review customer-provided design and configuration documentation
- Configure Nutanix Prism Central for Red Hat OpenShift deployments
- Configure virtual networking for Red Hat OpenShift nodes
- Configure virtual storage for Red Hat OpenShift nodes and containerized workloads
- Deploy Red Hat OpenShift Installer Provisioned Infrastructure (IPI) cluster
- Deploy and configure Nutanix Container Storage Interface (CSI)
    - Deploy and configure storage classes for Nutanix
    - Deploy and configure volume snapshot storage classes for Nutanix Unified Storage (NUS) Volumes
- Configure OpenShift image registry on one of the following:
    - NUS Objects
    - NUS Files
- Configure OpenShift Compute node machine sets

Optional Activities

- Deploy and configure storage classes for NUS Files

Limitations

Red Hat OpenShift Edition

- For each quantity purchased, deployment is limited to 1 on-premises NCI Cluster in a single physical site
- Configure up to 2 storage classes for NUS Volumes
- Configure up to 2 storage classes for NUS Files (optional)
- Configure up to 2 volume snapshot storage classes for NUS Volumes
- Configure up to 2 OpenShift compute node machine sets

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Fully supported and functional on-premises NCI cluster that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

  Note: For information on NUS Files prerequisites, see Prerequisites in *Nutanix Files User's Guide* on the Nutanix Support Portal.

- Fully supported and functional on-premises Prism Central instance

  Note: For information on the requirements for configuring NCM Intelligent Operations, see Prism Central Installation *or* Upgrade in *Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Customer-provided Design Document
- Completed Pre-deployment Questionnaire

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS)
- Container platform licenses

Delivered Artifacts

- As-built Guide

Duration

Typically 3 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS)

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Nutanix AI (NAI) & AI/ML Services

NUTANIX

NAI GPT Pro Bundle

Product Code: CNS-NAI-GPT-B-PRO

At-a-Glance

Stage: Plan, Design, Deploy and Optimize

The Nutanix Enterprise AI (NAI) generative pretrained transformer (GPT) Bundle offers a streamlined, full-stack solution for orchestrating AI/ML workloads with Nutanix Enterprise AI GPT-in-a-Box. Purpose-built for AI/ML teams, this offering simplifies the deployment and management of large language models (LLMs) in a secure, scalable environment.

NAI GPT-in-a-Box integrates the following core components:

- Nutanix Enterprise AI (NAI) – Optimized for AI/ML model orchestration and performance
- Nutanix Cloud Infrastructure (NCI) – Delivers a resilient, high-performance foundation
- Nutanix Unified Storage (NUS) – Supports high-throughput, scalable data storage
- Nutanix Kubernetes Platform (NKP) – Enables containerized deployment and lifecycle management of LLMs

Covering the key stages of the AI journey—Plan, Design, Deploy, and Optimize—the NAI GPT Bundle empowers teams to reduce complexity, accelerate time-to-value, and confidently build a future-ready AI infrastructure.

Service Scope

The Nutanix AI (NAI) Services Bundle delivers a comprehensive, end-to-end approach for deploying AI/ML workloads on Nutanix Cloud Infrastructure (NCI). Designed to guide organizations through every stage of implementation, this structured offering ensures optimized performance, scalability, and operational efficiency for NAI GPT environments.

Led by seasoned consultants with deep expertise in both AI/ML technologies and Nutanix platforms, the NAI Bundle follows a proven methodology:

- Discovery & Planning – Assess AI/ML use cases, technical requirements, and current infrastructure to define a clear implementation path.
- Design – Develop a tailored architecture optimized for customer-specific AI/ML workloads and business goals.
- Deployment – Implement the solution in alignment with Nutanix-recommended practices and validated design specifications.
- Knowledge Transfer – Empower customer AI/ML teams with the skills and documentation needed to manage and scale the environment confidently

For customers with the NAI GPT Pro Edition software license for their on-premises NCI environment.

This bundle includes the following activities:

AI/ML Planning Workshop

- Gather and analyze customer AI/ML use case, requirements, and expectations

- Assess and summarize the current state of AI/ML
- Identify data management considerations, including the data source, data preparation for AI/ML use, data protection, and security
- Look at the client's current Data Governance
- Learn the importance of choosing the right LLM
- Identify GPU selection and configuration options
- Explore options for training the model, such as using virtual machines (VMs) or container services
- Review capacity planning and scalability considerations for the number of end users who will leverage the GPT-based application
- Develop a Risk Management Plan

AI/ML Design Workshop

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of initial high-level workshops
- Develop NCI cluster design for AI workloads
  - Develop NCI/Nutanix Kubernetes Platform (NKP)/NAI architecture, including interoperability, security, and scalability for future growth
  - Define integration with Active Directory (AD)/lightweight directory access protocol (LDAP) and domain name service (DNS) environments
  - Review the customer’s current data governance
  - Develop the NCI cluster design
  - Gather graphics processing unit (GPU) requirements based on use cases
  - Design virtual networking, including integration with the physical network
  - Design virtual storage, including container layout, compression, and de-duplication
  - Design NAI, including documenting the number of instances and identifying the LLM to use based on the use cases

NUS Design Workshop

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in the workshop
- Deliver an overview of high-level architecture and concepts of either NUS Files and Objects
- Review the customer’s current landscape, use cases, and operations, and identify how NUS data services fit into the existing environment
- Assess resources required for the on-premises NCI environment
- Evaluate and define the integration of other infrastructure services required for the deployment with a focus on NUS (AD, DNS, network time protocol (NTP), directory services, identity services, etc.)
- Define NUS File shares and share types based on the use case
- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*
- Develop a Validation Plan that addresses the access and management of NUS Files

- Define Nutanix Objects store and bucket/s
- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*

NKP Design Workshop

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in the workshop
- Review the containerized workload use case system resource requirements with customer application owners
- Assess NKP Control Plane, workers, and infrastructure nodes quantity and capacity requirements based on solution sizing
- Review GPU-targeted containerized workload use cases and assess NKP worker node pools, quantity, and capacity requirements based on solution sizing
- Develop NKP architecture, including cluster API (CAPI) provisioning method, interoperability, security, and scalability for future growth
- Identify integration required for the customer-supplied identity provider (IdP) used for cluster-based authentication
- Identify virtual networking for NKP nodes (east-west/north-south)
- Identify virtual storage for NKP nodes and containerized workload design
- Plan default container storage interface (CSI) integration-based solution for NKP
- Identify an NKP image registry solution as needed
- Plan SSL certificate strategy
- Identify an NKP compute base machine template, as needed
- Design an NKP backup strategy using the default provided NKP backup solution
- Develop a Validation Plan for NKP
- Integrate and finalize all design documents (NCI, NUS, NKP, NAI, networking, storage, security, etc.)
- Develop a comprehensive Validation Plan (leveraging plans from T3/T4 and adding overall system tests)
- Review and update the Risk Management Plan

Infrastructure Deployment for AI Workloads

- Review customer-provided Design and Configuration documentation
- Review and validate deployment prerequisites (questionnaires, binaries, virtual networks, IP addresses, existing environment, availability of other infrastructure services such as AD, DNS, NTP, etc.)
- Deploy and configure NCI cluster via LCM, including recommended firmware and Acropolis operating system (AOS)
- Deploy and configure the hypervisor cluster on the deployed NCI cluster, including integration into existing vCenter/virtual machine manager (VMM) or vCenter Service Appliance (VCSA) deployment
- Configure LCM for automatic updates

- Configure layer 2 virtual networking and virtual switches on hypervisor hosts
- Deploy and integrate with Prism Central
- Install and configure hardware and drivers for GPU, including host drivers
- Test and validate the deployed NCI clusters

Optional Activities for Infrastructure Deployment for AI Workloads

- Enable local key management service (KMS) for encryption
- Install and configure non-factory installed supported hardware (random-access memory (RAM), local area network (LAN), sold-state drive (SSD), hard-disk drive (HDD), etc.)
- Harden Nutanix Controller VM and AHV according to the *Nutanix Security Guide*

Optional Activities for vGPU

  - deploy GPU license server
  - Configure a single test VM for vGPU

NUS Deployment

- Deploy NUS Files and Objects
- Deploy and configure the NUS data service per the customer-provided Design document
- Configure NUS File servers and shares
- Configure NUS Objects Store and buckets
- Assign IP addresses for NUS data services
- Configure security for NUS data services
- Configure certificates for NUS Objects
- Configure Internet content adaption protocol (ICAP)
- Configure bucket options (policies, versioning, lifecycle, WORM)
- Configure NUS Files to support workload-specific needs
- Verify NUS Files and Objects data service is accessible

Optional Activities for NUS Deployment

- Configure standard smart tiering
- Deploy and configure File Analytics
- Deploy and configure Data Lens

NKP Deployment Advanced Edition

- Set up/configure NKP deployment host for NKP cluster deployments
- Deploy a single NKP-supported CAPI-provisioned NKP cluster
- Configure an NKP Compute node machine set
- Set up NKP load balancer with fully qualified domain name (FQDN)
- Configure SSL certificates for NKP services

- Configure the default supported CSI based on the CAPI provisioning method used
- Install and configure GPU operator on NKP
- Configure NKP-based IdP authentication
- Deploy NKP platform applications
- Configure NKP licensing
- Configure NKP banner
- Seed a single NKP image registry, if required
- Review the NCI cluster configuration that runs a supported Kubernetes platform, including:
  - Verification of GPU support
  - Installation of GPU operator
  - NKP version and configuration
  - Set up/configuration of NUS files with CSI in NKP
  - Set up/configuration of NKP load balancer with FQDN and SSL certification
- Provide knowledge transfer (KT) session on the following topics:
  - NKP user interface (UI), including cluster creation, identity provider authentication, user token generation, and resource alerts
  - NKP disaster recovery (DR) backups, including example namespace backup and restore
  - NKP observability, including monitoring and logging

NAI Deployment

- Install NAI on the NKP cluster
- Add and update Nutanix helm repository
- Set up Hugging Face
- Import LLM
- Configure endpoint
- Demonstrate the LLM with a sample application

Limitations

- For each quantity purchased, deployment is limited to 1 node. A maximum of 31 nodes on a single on-premises NCI cluster.

  Note: For AI/ML workloads running on Bare Metal or Public Cloud, a custom statement of work (SOW) is required

AI/ML Planning Workshop

- Planning is limited to a single AI/ML use case

AI/ML Design Workshop

- Infrastructure design is limited to a single AI/ML inference use case in a single physical site

- Management and other cluster designs require a separate *Infrastructure Design Workshop* for each additional cluster

NUS Design Workshop

- NUS design includes a single NUS Files and a single Objects data service

Infrastructure Deployment

- Excludes deployment of NCI Flow Network Security, or NCI Advanced Replication

NUS Deployment

- Excludes migration of existing data to NUS Files or NUS Objects

NKP Deployment

- Selected CAPI provisioner must support the hardware platform
- Excludes continuous integration (CI) design of containerized workloads
- Excludes configurations requiring customization or enhancements of the existing product's capabilities
- KT session is limited to NKP out-of-box functionality
- Cluster API provisioning method is limited to the Nutanix infrastructure
- Configuration of the NKP product is limited to the features available in the NKP Pro license
- Configure up to 2 storage classes for NUS Volumes
- Configure up to 2 volume snapshot storage classes for NUS Volumes
- Configure up to 1 NKP-supported IdP source for cluster authentication

Optional Activities for NKP Deployment

- Configure up to 2 storage classes for NUS Files

NAI Deployment

- Excludes training a new LLM

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Hardware that meets all product requirements that meets all product requirements for NCI, NKP, NUS, and a supported GPU

> **Note:** For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.
>
> For information on NUS Files Prerequisites, see Prerequisites in *Nutanix Files User's Guide* on the Nutanix Support Portal.
>
> For information on NUS Objects Prerequisites, see Objects Prerequisites and Limitations in *Nutanix Objects User's Guide* on the Nutanix Support Portal.

Note: For information on the requirements for deploying NKP, see Basic Installations by Infrastructure in the *Nutanix Kubernetes Platform Guide* on the Nutanix Support Portal

For information on the requirements for NAI, see Nutanix Enterprise AI Requirements in the *Nutanix Enterprise AI Guide on the Nutanix Support Portal*

Fully supported and functional on-premises Prism Central instance

Note: For information on the requirements for configuring NCM Intelligent Operations, see Prism Central Installation *or* Upgrade in *Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Required NUS certificates must be generated and made available by the customer

Required Product Licenses

- NAI GPT Pro

Delivered Artifacts

Service	Delivered Artifacts
Planning Workshop	• Optimized Customer Strategy • High-level Summary Presentation
Design Workshops	• Configuration Workbook • Design Document
Deployments	• Configuration Workbook • As-built Guide

Duration

Typically up to 25 days (varies based upon the number of nodes purchased)

Delivery Type

Delivery Type	
Virtual	• Virtual Workshop • Virtual Documentation • Virtual Deployment
In-person	• In-person Workshop • Virtual Documentation • In-person NCI Infrastructure Deployment • Virtual NUS, NKP, and NAI Deployment

Related Products

- Nutanix Enterprise AI (NAI)
- Nutanix Cloud Infrastructure (NCI)

- Nutanix Unified Storage (NUS)
- Nutanix Kubernetes Platform (NKP)

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NAI GPT Ultimate Bundle

Product Code: CNS-NAI-GPT-B-ULT

At-a-Glance

Stage: Plan, Design, Deploy and Optimize

The Nutanix Enterprise AI (NAI) generative pretrained transformer (GPT) Bundle offers a streamlined, full-stack solution for orchestrating AI/ML workloads with Nutanix Enterprise AI GPT-in-a-Box. Purpose-built for AI/ML teams, this offering simplifies the deployment and management of large language models (LLMs) in a secure, scalable environment.

NAI GPT-in-a-Box integrates the following core components:

- Nutanix Enterprise AI (NAI) – Optimized for AI/ML model orchestration and performance
- Nutanix Cloud Infrastructure (NCI) – Delivers a resilient, high-performance foundation
- Nutanix Unified Storage (NUS) – Supports high-throughput, scalable data storage
- Nutanix Kubernetes Platform (NKP) – Enables containerized deployment and lifecycle management of LLMs

Covering the key stages of the AI journey—Plan, Design, Deploy, and Optimize—the NAI GPT Bundle empowers teams to reduce complexity, accelerate time-to-value, and confidently build a future-ready AI infrastructure.

Service Scope

The Nutanix AI (NAI) Services Bundle delivers a comprehensive, end-to-end approach for deploying AI/ML workloads on Nutanix Cloud Infrastructure (NCI). Designed to guide organizations through every stage of implementation, this structured offering ensures optimized performance, scalability, and operational efficiency for NAI GPT environments.

Led by seasoned consultants with deep expertise in both AI/ML technologies and Nutanix platforms, the NAI Bundle follows a proven methodology:

- Discovery & Planning – Assess AI/ML use cases, technical requirements, and current infrastructure to define a clear implementation path.
- Design – Develop a tailored architecture optimized for customer-specific AI/ML workloads and business goals.
- Deployment – Implement the solution in alignment with Nutanix-recommended practices and validated design specifications.
- Knowledge Transfer – Empower customer AI/ML teams with the skills and documentation needed to manage and scale the environment confidently

For customers with the NAI GPT Ultimate Edition software license for their on-premises NCI environment.

This bundle includes the following activities:

AI/ML Planning Workshop

- Gather and analyze customer AI/ML use case, requirements, and expectations

- Assess and summarize the current state of AI/ML
- Identify data management considerations, including the data source, data preparation for AI/ML use, data protection, and security
- Look at the client's current Data Governance
- Learn the importance of choosing the right LLM
- Identify GPU selection and configuration options
- Explore options for training the model, such as using virtual machines (VMs) or container services
- Review capacity planning and scalability considerations for the number of end users who will leverage the GPT-based application
- Develop a Risk Management Plan

AI/ML Design Workshop

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of initial high-level workshops
- Develop NCI cluster design for AI workloads
  - Develop NCI/Nutanix Kubernetes Platform (NKP)/NAI architecture, including interoperability, security, and scalability for future growth
  - Define integration with Active Directory (AD)/lightweight directory access protocol (LDAP) and domain name service (DNS) environments
  - Review the customer’s current data governance
  - Develop the NCI cluster design
  - Gather graphics processing unit (GPU) requirements based on use cases
  - Design virtual networking, including integration with the physical network
  - Design virtual storage, including container layout, compression, and de-duplication
  - Design NAI, including documenting the number of instances and identifying the LLM to use based on the use cases

NUS Design Workshop

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in the workshop
- Deliver an overview of high-level architecture and concepts of either NUS Files and Objects
- Review the customer’s current landscape, use cases, and operations, and identify how NUS data services fit into the existing environment
- Assess resources required for the on-premises NCI environment
- Evaluate and define the integration of other infrastructure services required for the deployment with a focus on NUS (AD, DNS, network time protocol (NTP), directory services, identity services, etc.)
- Define NUS File shares and share types based on the use case
- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*
- Develop a Validation Plan that addresses the access and management of NUS Files

- Define Nutanix Objects store and bucket/s
- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*

NKP Design Workshop

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in the workshop
- Review the containerized workload use case system resource requirements with customer application owners
- Assess NKP Control Plane, workers, and infrastructure nodes quantity and capacity requirements based on solution sizing
- Review GPU-targeted containerized workload use cases and assess NKP worker node pools, quantity, and capacity requirements based on solution sizing
- Develop NKP architecture, including cluster API (CAPI) provisioning method, interoperability, security, and scalability for future growth
- Identify integration required for the customer-supplied identity provider (IdP) used for cluster-based authentication
- Identify virtual networking for NKP nodes (east-west/north-south)
- Identify virtual storage for NKP nodes and containerized workload design
- Plan default container storage interface (CSI) integration-based solution for NKP
- Identify an NKP image registry solution as needed
- Plan SSL certificate strategy
- Identify an NKP compute base machine template, as needed
- Design an NKP backup strategy using the default provided NKP backup solution
- Develop a Validation Plan for NKP
- Integrate and finalize all design documents (NCI, NUS, NKP, NAI, networking, storage, security, etc.)
- Develop a comprehensive Validation Plan (leveraging plans from T3/T4 and adding overall system tests)
- Review and update the Risk Management Plan
- Plan communications for NKP Control Plane and Workers
- Design NKP multitenancy model, including role-based access control (RBAC) policy
- Review containerized workload use cases and assess NKP worker node pools, quantity, and capacity requirements for the NKP management cluster and managed workload clusters based on solution sizing
- Document observability design elements for centralized monitoring and logging as they pertain to the designed multitenancy model

Infrastructure Deployment for AI Workloads

- Review customer-provided Design and Configuration documentation

- Review and validate deployment prerequisites (questionnaires, binaries, virtual networks, IP addresses, existing environment, availability of other infrastructure services such as AD, DNS, NTP, etc.)
- Deploy and configure NCI cluster via LCM, including recommended firmware and Acropolis operating system (AOS)
- Deploy and configure the hypervisor cluster on the deployed NCI cluster, including integration into existing vCenter/virtual machine manager (VMM) or vCenter Service Appliance (VCSA) deployment
- Configure LCM for automatic updates
- Configure layer 2 virtual networking and virtual switches on hypervisor hosts
- Deploy and integrate with Prism Central
- Install and configure hardware and drivers for GPU, including host drivers
- Test and validate the deployed NCI clusters

Optional Activities for Infrastructure Deployment for AI Workloads

- Enable local key management service (KMS) for encryption
- Install and configure non-factory installed supported hardware (random-access memory (RAM), local area network (LAN), sold-state drive (SSD), hard-disk drive (HDD), etc.)
- Harden Nutanix Controller VM and AHV according to the *Nutanix Security Guide*

Optional Activities for vGPU

  - Deploy GPU license server
  - Configure a single test VM for vGPU

NUS Deployment

- Deploy NUS Files and Objects
- Deploy and configure the NUS data service per the customer-provided Design document
- Configure NUS File servers and shares
- Configure NUS Objects Store and buckets
- Assign IP addresses for NUS data services
- Configure security for NUS data services
- Configure certificates for NUS Objects
- Configure Internet content adaption protocol (ICAP)
- Configure bucket options (policies, versioning, lifecycle, WORM)
- Configure NUS Files to support workload-specific needs
- Verify NUS Files and Objects data service is accessible

Optional Activities for NUS Deployment

- Configure standard smart tiering
- Deploy and configure File Analytics
- Deploy and configure Data Lens

NKP Deployment Enterprise Edition

- Set up/configure NKP deployment host for NKP cluster deployments
- Deploy a single NKP-supported CAPI-provisioned NKP cluster
- Configure an NKP Compute node machine set
- Set up NKP load balancer with fully qualified domain name (FQDN)
- Configure SSL certificates for NKP services
- Configure the default supported CSI based on the CAPI provisioning method used
- Install and configure GPU operator on NKP
- Configure NKP-based IdP authentication
- Deploy NKP platform applications
- Configure NKP licensing
- Configure NKP banner
- Seed a single NKP image registry, if required
- Review the NCI cluster configuration that runs a supported Kubernetes platform, including:
  - Verification of GPU support
  - Installation of GPU operator
  - NKP version and configuration
  - Set up/configuration of NUS files with CSI in NKP
  - Set up/configuration of NKP load balancer with FQDN and SSL certification
- Provide knowledge transfer (KT) session on the following topics:
  - NKP user interface (UI), including cluster creation, identity provider authentication, user token generation, and resource alerts
  - NKP disaster recovery (DR) backups, including example namespace backup and restore
  - NKP observability, including monitoring and logging
  - Deploy a single NKP workload cluster using the same CAPI provisioning method
  - Configure a single NKP Workspace and up to 2 projects
  - Configure NKP UI-based RBAC
  - Provide KT session on NKP-provided Kubecost and Insights

NAI Deployment

- Install NAI on the NKP cluster
- Add and update Nutanix helm repository
- Set up Hugging Face
- Import LLM
- Configure endpoint
- Demonstrate the LLM with a sample application

AI/ML Strategic and Optimization Workshop Series

- Gather and discuss customer AI/ML use cases, requirements, and expectations periodically
- Assess and summarize the current state of AI/ML
- Review capacity planning and scalability considerations for the number of end users who will leverage the GPT-based application
- Identify data management considerations, including the data source and preparation for AI/ML use, and data protection and security
- Develop a risk management plan
- Learn the importance of choosing the right LLM
- Identify GPU selection and configuration options
- Explore options for training the model, such as using VMs or container services

Limitations

- For each quantity purchased, deployment is limited to 1 node. A maximum of 31 nodes on a single on-premises NCI cluster

> **Note:** For AI/ML workloads running on Bare Metal or Public Cloud, a custom statement of work (SOW) is required

AI/ML Planning Workshop

- Planning is limited to a single AI/ML use case

AI/ML Design Workshop

- Infrastructure design is limited to a single AI/ML inference use case in a single physical site
- Management and other cluster designs require a separate *Infrastructure Design Workshop* for each additional cluster

NUS Design Workshop

- NUS design includes a single NUS Files and a single Objects data service

Infrastructure Deployment

- Excludes deployment of NCI Flow Network Security, or NCI Advanced Replication

NUS Deployment

- Excludes migration of existing data to NUS Files or NUS Objects

NKP Deployment

- Selected CAPI provisioner must support the hardware platform
- Excludes continuous integration (CI) design of containerized workloads
- Excludes configurations requiring customization or enhancements of the existing product's capabilities
- KT session is limited to NKP out-of-box functionality

- Cluster API provisioning method is limited to the Nutanix infrastructure
- Configuration of the NKP product is limited to the features available in the NKP Ultimate license
- Configure up to 2 storage classes for NUS Volumes
- Configure up to 2 volume snapshot storage classes for NUS Volumes
- Configure up to 1 NKP-supported IdP source for cluster authentication
- For optional activities, configure up to 2 storage classes for NUS Files

NAI Deployment

- Excludes training a new LLM

AI/ML Strategy and Optimization Workshop

- For each quantity purchased, a single workshop series that includes a maximum of 12 1-day workshops
- Limited to strategic guidance and optimization recommendations
- Excludes hands-on implementation or deployment activities
- Focused on Nutanix-supported AI/ML solutions and infrastructure

Note: Customer is expected to notify Nutanix at least 2 weeks in advance to schedule 1-day workshops that vary from a preset schedule.

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Hardware that meets all product requirements that meets all product requirements for NCI, NKP, NUS, and a supported GPU

Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

For information on NUS Files Prerequisites, see Prerequisites in *Nutanix Files User's Guide* on the Nutanix Support Portal.

For information on NUS Objects Prerequisites, see Objects Prerequisites and Limitations in *Nutanix Objects User's Guide* on the Nutanix Support Portal.

For information on the requirements for deploying NKP, see Basic Installations by Infrastructure in the *Nutanix Kubernetes Platform Guide* on the Nutanix Support Portal

For information on the requirements for NAI, see Nutanix Enterprise AI Requirements in the *Nutanix Enterprise AI Guide on the Nutanix Support Portal*

Fully supported and functional on-premises Prism Central instance

For information on the requirements for configuring NCM Intelligent Operations, see Prism Central Installation *or* Upgrade in *Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Required NUS certificates must be generated and made available by the customer

Required Product Licenses

- NAI GPT Ultimate

Delivered Artifacts

Service	Delivered Artifacts
Planning Workshop	• Optimized Customer Strategy • High-level Summary Presentation
Design Workshops	• Configuration Workbook • Design Document
Deployments	• Configuration Workbook • As-built Guide
Strategy and Optimization Workshop Series	• Strategic Recommendations Report • AI/ML Roadmap Updates • Performance Optimization Recommendations Report

Duration

Typically up to 30 days, excluding AI/ML Strategy and Optimization Workshop Series

> **Note:** AI/ML Strategy and Optimization Workshop Series - Each workshop in the series is a single day duration, typically held one day per month, delivered virtually. Multiple workshops can be combined into a single month with a maximum number of 12 1-day workshops within Delivery Type

Delivery Type

Delivery Type	
Virtual	• Virtual Workshop • Virtual Documentation • Virtual Deployment
In-person	• In-person Workshop • Virtual Documentation • In-person NCI Infrastructure Deployment • Virtual NUS, NKP, and NAI Deployment

Related Products

- Nutanix Enterprise AI (NAI)
- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS)
- Nutanix Kubernetes Platform (NKP)

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AI/ML Planning Workshop

Product Code: CNS-DAY0-WRK-PLN-GPT

At-a-Glance

Stage: Plan

The Nutanix Artificial Intelligence / Machine Learning (AI/ML) Planning Workshop provides IT teams with comprehensive, hands-on guidance for planning and implementing infrastructure for AI/ML workloads using the Generative Pre-trained Transformer (GPT) model on Nutanix Cloud Infrastructure (NCI) clusters and various cloud providers. This workshop is beneficial during the Planning stage of the AI/ML solution journey.

Related Services

- AI/ML Design Workshop
- NAI Deployment
- AI/ML Strategy & Optimization Workshop Series

Service Scope

Delivered by highly skilled consultants with strong AI/ML domain expertise and rich experience, the planning workshop begins with a discovery session to understand the operating environment and required outcomes. Critical areas identified during Discovery are then addressed in a customized workshop.

The service includes the following activities:

- Gather and analyze customer AI/ML use case, requirements, and expectations
- Assess and summarize the current state of AI/ML
- Review capacity planning and scalability considerations for the number of end users who will leverage the GPT-based application
- Identify data management considerations, including the data source, data preparation for AI/ML use, data protection, and security
- Develop a risk management plan
- Learn the importance of choosing the right large language model (LLM)
- Identify GPU selection and configuration options
- Explore options for training the model, such as using virtual machines (VMs) or container services

Limitations

- For each quantity purchased, planning is limited to a single AI/ML use case
- Limited to infrastructure planning for AI/ML inference workloads
- Excludes design and deployment of AI/ML infrastructure workloads

Supported Hypervisors

- Nutanix AHV

Prerequisites

- None

Required Product Licenses

- None

Delivered Artifacts

- Optimized Customer Strategy
- High-level Summary Presentation

Duration

Typically up to 1 day

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Enterprise AI (NAI)
- Nutanix Kubernetes Platform (NKP)
- Nutanix Unified Storage (NUS)

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AI/ML Design Workshop

Product Code: CNS-INF-A-WRK-DES-GPT

At-a-Glance

Stage: Design

The Nutanix Artificial Intelligence/Machine Learning (AI/ML) Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive infrastructure design for AI/ML workloads based on a Generative Pre-trained Transformer (GPT). It covers various aspects such as performance, scalability, flexibility, integration, and operational needs. This workshop is beneficial during the Design stage of the AI/ML solution journey.

Related Services

- AI/ML Planning Workshop
- NAI Deployment
- AI/ML Strategy & Optimization Workshop Series

Service Scope

A series of design workshops is delivered by a highly skilled consultant with strong domain expertise and rich experience to ensure that the solution requirements and required outcomes are identified. The consultant works collaboratively with key customer stakeholders from architecture, virtualization, and networking teams during the design workshop to gather requirements and develop the design. After the Design workshop, the consultant develops an infrastructure Design document for the AI/ML inference platform, a configuration workbook that addresses conceptual, logical, and physical NCI design elements.

This service includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
- Develop NCI cluster design for AI workloads
    - Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
    - Gather AI-specific requirements, constraints, assumptions, dependencies, and decisions
    - Develop NCI/NKP/NAI architecture, including interoperability, security, and scalability for future growth
    - Define integration with Active Directory (AD)/lightweight directory access protocol (LDAP) and domain name service (DNS) environments
    - Look at the client's current Data Governance
    - Develop NCI cluster design
    - Gather GPU requirements based on Use Cases
    - Design virtual networking, including integration with the physical network
    - Design virtual storage, including container layout, compression, and de-duplication
    - Design NAI – Number of instances and which LLM should be used based on the use cases

- Validate NCI/NAI sizing based on workload details provided by the customer Discuss the GPU selection and configuration options for inference
- Assess the network requirements and design virtual networking, including integration with the physical network
- Validate cluster size and platform selection based on workload details provided by the customer
- Design security including data-at-rest encryption, Secure Sockets Layer (SSL) certificate, password complexity, and syslog

Limitations

- For each quantity purchased, infrastructure design is limited to a single AI/ML inference use case.
- Management and other cluster designs require a separate Infrastructure Design Workshop for each additional cluster
- Excludes Nutanix Kubernetes Platform (NKP), Nutanix Database Service (NDB), and Nutanix Unified Storage (NUS) design
- The design service is limited to a single physical site

> **Note:** For AI/ML workloads running on Bare Metal or Public Cloud, a custom Statement of work is required

Supported Hypervisors

- Nutanix AHV

Prerequisites

- None

Required Product Licenses

- None

Delivered Artifacts

- Configuration Workbook
- Design Document

Duration

Typically up to 5 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Enterprise AI (NAI)
- Nutanix Kubernetes Platform (NKP)

- Nutanix Unified Storage (NUS)
- Nutanix Database Service (NDB)

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NAI Deployment

Product Code: CNS-INF-A-SVC-DEP-GPT

At-a-Glance

Stage: Deploy

The Nutanix Enterprise Artificial Intelligence (NAI) Deployment service accelerates the deployment of a comprehensive inference endpoint management product designed to streamline and optimize your AI model orchestration experience. NAI allows you to select, deploy, and manage large language models (LLMs) on a Kubernetes cluster. This offer is ideal for the Deploy stage of the Nutanix Enterprise AI solution journey.

Related Services

- AI/ML Planning Workshop
- AI/ML Design Workshop
- AI/ML Strategy & Optimization Workshop Series
- Infrastructure Deployment
- NKP Deployment
- NUS Deployment

Service Scope

Highly skilled consultants with strong domain expertise and rich experience deploy NAI on a supported Kubernetes platform. After the deployment of the solution, the consultant demonstrates the LLM with sample data.

This service includes the following activities:

- Review the NCI cluster configuration that runs a supported Kubernetes Platform, including:
  - GPU Support
  - GPU operator installed
  - NKP version
  - NUS files installed with CSI Setup in NKP
  - NKP load balancer set up with FQDN
  - SSL certification (secure)
- Install NAI on the supported Kubernetes cluster, including:
  - Add and update Nutanix helm repository
  - Set up Hugging face
  - Importing LLM
  - Configuring Endpoint
  - Demonstrating the LLM with sample application

Limitations

- For each quantity purchased, deployment is limited to 1 on-premises NCI cluster
- Excludes training a new LLM
- Excludes creation or updates to existing Design Documentation
- Excludes NCI cluster, NKP, and NUS deployment

> **Note:** For AI/ML workloads running on Bare Metal or Public Cloud, a custom SOW is required.

Supported Hypervisors

- Nutanix AHV

Supported Kubernetes Platforms

- Nutanix Kubernetes Platform (NKP)

Prerequisites

- Fully supported and functional on-premises NCI cluster that meets all product requirements for NCI, NKP, NUS, and a supported GPU

> **Note:** For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.
>
> For information on the requirements for deploying NKP see Basic Installations by Infrastructure in the *Nutanix Kubernetes Platform Guide* on the Nutanix Support Portal.
>
> For information on the requirements for NAI, see Nutanix Enterprise AI Requirements in the *Nutanix Enterprise AI Guide*.
>
> For information on NUS Files Prerequisites, see Prerequisites in *Nutanix Files User's Guide* on the Nutanix Support Portal.

- Completed Pre-Install Questionnaire

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI) Ultimate Edition
- Nutanix Enterprise AI (NAI)
- Nutanix Kubernetes Platform (NKP) Pro or Ultimate Edition
- Nutanix Unified Storage (NUS) Pro Edition

Delivered Artifacts

- As-built Guide

Duration

Typically up to 2 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix AI (NAI)
- Nutanix Kubernetes Platform (NKP)
- Nutanix Unified Storage (NUS)

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AI/ML Strategy and Optimization Workshop Series

Product Code: CNS-NAI-A-WRK-STG-OPZ-SERIES

At-a-Glance

Stage: Optimize

The artificial intelligence/ machine learning (AI/ML) Strategy and Optimization Workshop series is designed to help organizations harness the full potential of their AI initiatives. Delivered as a monthly engagement, this service ensures that businesses remain at the forefront of AI/ML innovation by aligning their AI/ML solutions running on Nutanix with evolving market demands and technological advancements. With expert guidance from seasoned Nutanix consultants, organizations gain the insights needed to optimize performance, uncover new opportunities, and scale their AI/ML initiatives strategically. This workshop is beneficial during the Optimize stage of the AI/ML solution journey.

Related Services

- AI/ML Planning Workshop
- AI/ML Design Workshop
- NAI Deployment

Service Scope

Delivered by a highly skilled architect with deep AI/ML expertise, this service includes recurring monthly workshops focused on:

- Reviewing existing AI/ML deployments and use cases
- Assessing performance and resource utilization of current AI/ML infrastructure
- Exploring new AI/ML use cases and opportunities
- Evaluating and recommending updates to compute, GPU, and storage resources
- Discussing emerging AI/ML technologies and their potential applications
- Providing guidance on AI/ML model selection and optimization
- Offering strategic advice on scaling AI/ML initiatives

This service includes the following outcomes:

- Comprehensive assessment of AI/ML infrastructure and workloads
- Tailored recommendations for performance and resource optimization
- Strategic discussions on capacity planning and scalability
- Exploration of advanced AI technologies and business applications
- Development of a forward-looking AI/ML roadmap
- Knowledge transfer on cutting-edge AI/ML trends and best practices
- Partnership recommendations for implementing new AI/ML use cases

- Knowledge transfer on cutting-edge AI/ML trends and best practices
- Partnership recommendations for implementing new AI/ML use cases

Limitations

- For each quantity purchased, a single workshop series that includes a maximum number of 12 1-day workshops
- Limited to strategic guidance and optimization recommendations
- Excludes hands-on implementation or deployment activities
- Focused on Nutanix-supported AI/ML solutions and infrastructure

> **Note:** Customer is expected to notify Nutanix at least 2 weeks in advance to schedule 1-day workshops that vary from a preset schedule.

Prerequisites

- Fully supported and functional on-premises NCI cluster that meets all product requirements

> **Note:** For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Completed Nutanix AI/ML Design Workshop delivered by Nutanix Professional Services

Delivered Artifacts

- Strategic Recommendations Report
- AI/ML Roadmap Updates
- Performance Optimization Recommendations Report

Duration

Each workshop in the series is a single day duration, typically held one day per month, delivered virtually. Multiple workshops can be combined into a single month with a maximum number of 12 1-day workshops within 12 months after receipt of the applicable purchase order.

> **Note:** In-person delivery may incur additional charges

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Enterprise AI (NAI)
- Nutanix Kubernetes Platform (NKP)
- Nutanix Unified Storage (NUS)
- Nutanix Database Service (NDB)

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Nutanix Cloud Management (NCM) & Automation Services

NUTANIX

NCM Intelligent Operations Design Workshop

Product Code: CNS-CAS-A-WRK-IOPS-DSGN

At-a-Glance

Stage: Design

The Nutanix Cloud Management (NCM) Intelligent Operations Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for Nutanix X-Play automation and playbooks to automate common tasks within the Nutanix Cloud Platform (NCP). This workshop is beneficial during the Design stage of a hybrid multicloud journey.

Related Services

- NCM Intelligent Operations Deployment

Service Scope

Delivered by highly skilled consultants with strong domain expertise and rich experience to ensure that the advanced analytics and intelligent insights solution meets your business needs. Design workshops require collaboration with key customer stakeholders from architecture and virtualization teams. After the design workshop, the consultant develops a Nutanix Design Document for deploying Nutanix X-Play automation and playbooks to automate common tasks within the Nutanix Cloud Platform.

This service includes the following activities:

- Conduct an NCM Intelligence Operations design workshop:
  - Gather and document solution requirements, constraints, assumptions, dependencies, and decisions
  - Provide an overview of the technology and capture the targeted use cases and actions
- Create a detailed NCM Intelligent Operations design that defines the triggers, built-in workflow actions, and playbooks

Limitations

- For each quantity purchased, design is limited to a single pack of 10 action policies or playbooks
- Excludes scripted solutions requiring custom scripts

Note: Custom-scripted solutions can be accommodated via a custom statement of work (SOW)

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- None

Required Product Licenses

- None

Delivered Artifacts

- Configuration Workbook
- Design Document

> **Note:** This offer is available with several documentation options, defined here https://www.nutanix.com/support-services/consulting-services/documentation-tiers

Duration

Typically up to 3 days for a single action pack

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Cloud Manager (NCM)

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NCM Self-Service Design Workshop

Product Code: CNS-CAS-A-WRK-SSA-DSGN

At-a-Glance

Stage: Design

The Nutanix Cloud Management (NCM) Self-Service Design Workshop offers automation teams in-depth and practical guidance to create a comprehensive design for application-centric infrastructure automation and lifecycle management (LCM) platforms to streamline and accelerate application development. This workshop is beneficial during the Design stage of a hybrid multicloud journey.

Related Services

- Automation Development Sprint Service

Service Scope

Delivered by highly skilled consultants with strong automation expertise and rich experience to ensure that the solution requirements and required outcomes are identified. Design workshops require collaboration with key customer stakeholders from automation, application, architecture, and virtualization teams. After the design workshop, the consultant develops a Nutanix Design Document and configuration workbook that addresses conceptual, logical, and physical NCM Self-Service design elements. It also details requirements, constraints, assumptions, design decisions, identified risks, and mitigations.

Essential Edition

For customers who want a basic design for on-premises Infrastructure as a Service (IaaS).

The Essential Edition includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions
- Design NCM Self-Service architecture for development and production deployment environment
- Design NCM Self-Service management infrastructure service version release testing
- Provide an overview of the Agile development lifecycle, code repositories, and release management processes for infrastructure automation projects
- Define integration with AD/LDAP, IPAM/DNS, and backup environments
- Assess network configuration impacts and requirements
- Develop blueprint specification documents defining the automation of a Linux and a Windows operating system (OS) deployment
- Design a self-service portal based on NCM Self-Service Marketplace
- Define RBAC via Self-Service project membership with show-back functionality

Advanced Edition

For customers who want to design for more robust IaaS web, application, and database server blueprints and who can provision to a supported public cloud platform. The solution provides a design for environment(s) to support development, testing, staging, and production releases.

The Advanced Edition includes the following activities:

- Everything included in the Essential Edition
- NCM Self-Service architecture for a supported public cloud platform

Limitations

Essential Edition

- For each quantity purchased, design is limited to one development and one production deployment environment
- Blueprints defining the automation of one Linux and one Windows OS deployment

Advanced Edition

- For each quantity purchased, design is limited to one development and two deployment environments
- Includes architecture for a single supported public cloud provider

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Supported Public Cloud Platforms

- Amazon Web Services (AWS)
- Microsoft Azure
- Google Cloud Platform

Prerequisites

- None

Required Product Licenses

- None

Delivered Artifacts

- Configuration Workbook
- Design Document

Note: This offer is available with several documentation options, defined here https://www.nutanix.com/support-services/consulting-services/documentation-tiers

Duration

Essential	Advanced
Typically up to 5 days	Typically up to 10 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Cloud Manager (NCM)

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Automation Design Workshop

Product Code: CNS-CAS-A-WRK-ADS

At-a-Glance

Stage: Design

With the Nutanix Automation Design Workshop, Nutanix Automation experts collaborate with customer engineers, architects, and developers to design custom automation solutions using Nutanix Cloud Manager (NCM) or other automation solutions such as Terraform or Ansible. This offer is ideal for the Design stage of a hybrid multicloud journey.

Related Services

- Automation Development Sprint Service

Service Scope

A highly skilled architect with extensive automation domain expertise and experience provides automation design services that lay the foundation for 2-week incremental agile sprints via the separate Automation Development Sprint Service. The Automation Design Workshop requires collaboration with key customer stakeholders from automation, application, architecture, infrastructure, operations, security, and virtualization teams. After the design workshop, the architect creates a Nutanix Design Document, blueprint/automation workflows, and initial sprint backlog.

The service includes the following activities:

- Conduct Discovery
- Define and document use cases, services, target minimum viable product (MVP), team roles, and operating model
- Document end user consumption model(s)
- Document infrastructure / endpoint integration
- Document blueprint / automation workflows
- Create initial backlog
- Plan initial sprint

Limitations

- For each quantity purchased, design is limited to a single day of design. A minimum of 3 consecutive days is required.

  Note: If additional days are needed, purchase in one-day increments that must be delivered consecutively.

- A Nutanix Professional Services Automation Architect is required to define the scope of the engagement
- Engagement includes a single Nutanix architect working with the customer's team.

Supported Automation Tools

- Nutanix Cloud Manager (NCM) Self-Service
- Terraform
- Ansible

Supported Target Provider Accounts

Provider accounts are cloud services, bare-metal, or existing machines used to deploy, monitor, and govern applications.

- Nutanix AHV
- VMware ESXi
- Amazon AWS
- Microsoft Azure
- Google GCP
- Kubernetes Platforms

Prerequisites

- None

Required Product Licenses

- None

Delivered Artifacts

- Initial Sprint Backlog
- Design Document
- Blueprint / Automation Workflows

Duration

Minimum of 3 days, with 1 day increment

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Cloud Manager (NCM)

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NCM Intelligent Operations Deployment

Product Code: CNS-INF-A-SVC-ITO-STD

At-a-Glance

Stage: Deploy

The Nutanix Cloud Management (NCM) Intelligent Operations Deployment accelerates the deployment of Nutanix X-Play automation and playbooks to automate common tasks within the Nutanix Cloud Platform (NCP) with in-depth expertise from highly skilled consultants. This offer is ideal for the Deploy stage of a hybrid multicloud journey.

Related Services

- NCM Intelligent Operations Design Workshop

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin deploying Nutanix X-Play automation according to Nutanix recommended practices and the customer-provided Design Document. After policies are configured and validated, the consultant creates a customized as-built document to document the final configuration of the automation.

The service includes the following activities:

- Review customer-provided design
- Configure up to 10 X-Play playbooks (automation policies) using built-in or custom triggers, each performing up to 10 composite workflow steps
- Playbooks can be triggered via
  - Conditional alert trigger (e.g., high CPU utilization)
  - Event, manual, or time-driven triggers
  - Scriptless API integration via webhook
- Conduct testing and validation of the policies configured

Optional Activities

- Deploy Prism Central

Limitations

- For each quantity purchased, deployment is limited to up to 10 action policies or playbooks on a single on-premises Prism Central instance
- Excludes include creation or updates to existing Design Documentation
- Excludes scripted solutions requiring custom scripts

Note: Custom-scripted solutions can be accommodated via a custom statement of work (SOW)

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Cluster (NC2) cluster that meets all product requirements for Prism Central and NCM Intelligent Operations
- Fully supported and functional on-premises Prism Central instance

  Note: For information on the requirements for configuring NCM Intelligent Operations, see Prism Central Installation *or* Upgrade in *Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Ability to resize Prism Central VM, if needed, to support chosen scenario
- Customer-provided Design Document

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM)
- Hypervisor licenses for NCI

  Note: NCM Licenses are required for all Nutanix, non-Nutanix, and Public Cloud clusters managed by NCM.

Delivered Artifacts

- As-built Guide

Duration

Typically up to 2 days for a single action pack

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Cloud Manager (NCM)

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FastTrack for NCM Intelligent Operations

Product Code: CNS-INF-FST-PC

At-a-Glance

Stage: Deploy

FastTrack for Nutanix Cloud Manager (NCM) Intelligent Operations accelerates the configuration of advanced analytics and intelligent insights into managing the Nutanix Cloud Platform (NCP) in greenfield environments. This offer is ideal for the Deploy stage of a hybrid multicloud journey.

Related Services

- NCM Intelligent Operations Design Workshop
- NCM Intelligent Operations Deployment

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with an enablement session. After the enablement session, the consultant configures NCM Intelligent Operations and one of the available scenarios.

The service includes the following activities:

- Conduct an NCM Intelligent Operations enablement session
  - Demonstrate utilization forecasting and what-if analysis
  - Demonstrate VM right-sizing using X-Play
- Create custom reports
- Create custom dashboards
- Choose one of the following supported scenarios:
  - Assistance integrating with a custom remote API
  - Demonstrate SQL monitoring
  - Demonstrate external VMware vCenter monitoring

Limitations

- For each quantity purchased, deployment is limited to one Prism Central instance
- Limited to greenfield environments
- Creation of up to 3 custom reports
- Creation of up to 3 custom dashboards
- If integrating with a custom remote API, a maximum of 4 hours spent

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Cluster (NC2) cluster that meets all product requirements for Prism Central and NCM Intelligent Operations
- Fully supported and functional on-premises Prism Central instance

> **Note:** For information on the requirements for configuring NCM Intelligent Operations, see Prism Central Installation *or* Upgrade in *Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Ability to resize Prism Central VM, if needed, to support chosen scenario
- Ability to download and import Nutanix-provided VMs for demonstration purposes

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM)
- Hypervisor licenses for NCI

> **Note:** NCM Licenses are required for all Nutanix, non-Nutanix, and Public Cloud clusters managed by NCM.

Delivered Artifacts

- As-built Guide

Duration

Typically up to 2 days, delivered virtually

> **Note:** In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Cloud Manager (NCM)

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FastTrack for NCM Self-Service

Product Code: CNS-CAS-FST-CALM

At-a-Glance

Stage: Deploy

FastTrack for Nutanix Cloud Manager (NCM) Self-Service accelerates the deployment and configuration of NCM Self-Service in greenfield environments, which streamlines how teams manage, deploy, and scale applications across hybrid clouds with self-service, automation, and centralized role-based governance, with expertise from highly skilled automation consultants. This offer is ideal for the Deploy stage of a hybrid multicloud journey.

Service Scope

Highly skilled consultants with solid automation domain expertise and rich experience begin with an enablement session. After the enablement session, the consultant deploys and configures NCM Self-Service and imports and publishes an NCM Self-Service blueprint. Enablement sessions require collaboration with key stakeholders from virtualization, automation, and application teams.

The service includes the following activities:

- Conduct an enablement session introducing NCM Self-Service
  - Architectural overview and review of NCM Self-Service components
  - Overview of features and functions of NCM Self-Service
- Deploy and configure NCM Self-Service with one:
  - Project
  - Identity provider
  - Platform
- Import and publish one NCM Self-Service blueprint
  - Integrate Active Directory, including domain join and placement into a specific organizational unit (OU), static or dynamic IP addressing, DNS registration
  - Demonstrate deployment of an NCM Self-Service Marketplace blueprint

Optional Activities

- Integrate an IPAM system

Available Self-Service Blueprints

Guest OS	Supported Providers
Windows Server 2019	Nutanix AHV, VMware ESXi
CentOS server 8.x	Nutanix AHV, VMware ESXi
RHEL server 8.x	Nutanix AHV, VMware ESXi

Guest OS	Supported Providers
SLES 15.x	Nutanix AHV, VMware ESXi
Ubuntu server 20.x	Nutanix AHV, VMware ESXi

Limitations

- For each quantity purchased, deployment is limited to one NCM instance
- Limited to greenfield environments
- Enablement session limited to a maximum of ten participants
- Configuration limited to one project, identity provider, and platform
- Available identity providers include Active Directory, Open LDAP, or similar
- Imported Blueprints may include integration of one IPAM system: Prism, Infoblox, or Solarwinds
- Blueprint deployment demonstration limited to 5 VMs from the published NCM Self-Service Marketplace

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Cluster (NC2) cluster that meets all product requirements for Prism Central and NCM Self-Service

  Note: For information on the requirements for deploying NCM Self-Service, see Calm Prerequisites and Deployment in *Calm Administration and Operations Guide* on the Nutanix Support Portal.

- Fully supported and functional on-premises Prism Central instance

  Note: For information on the requirements for configuring NCM Intelligent Operations, see *Prism Central Installation* or *Upgrade in Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Preconfigured provider accounts

  Note: For information on configuring provider accounts, see Provider Accounts Setting in Calm in *Calm Administration and Operations Guide* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM Pro or Ultimate
- Hypervisor licenses for NCI

Delivered Artifacts

- As-built Guide

Duration

Typically up to 3 days, delivered virtually

> **Note:** In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM)

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FastTrack for NCM Cost Governance

Product Code: CNS-CAS-FST-NCM-CTG

At-a-Glance

Stage: Deploy

The FastTrack for Nutanix Cloud Management (NCM) Cost Governance accelerates the onboarding of deep visibility and rich analytics detailing cloud consumption patterns along with one-click cost optimization across cloud environments with expertise from highly skilled consultants. IT teams can choose to onboard on-premises Nutanix Cloud Infrastructure (NCI) clusters or a public cloud platform. This offer is ideal for the Deploy stage of a hybrid multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with an enablement session. After the enablement session, the consultant onboards an on-premises NCI cluster or public cloud platform to NCM Cost Governance. Enablement sessions require collaboration from key stakeholders and teams responsible for gaining visibility into cloud spend.

The service includes the following activities:

- Conduct an enablement session introducing NCM Cost Governance
- Onboard on-premises NCI clusters or public cloud provider to NCM Cost Governance

Limitations

- For each quantity purchased, onboarding is limited to one on-premises Nutanix environment and/or a single public cloud provider
- Excludes cost configuration and custom reports

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Supported Public Cloud Platforms

- Amazon Web Services (AWS)
- Microsoft Azure
- Google Cloud Platform

Prerequisites

NCI Clusters

- Fully supported and functional on-premises NCI cluster(s) that meets all product requirements for Nutanix Cloud Infrastructure (NCI)

Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Pulse must be enabled for on-premises NCI clusters

Note: For information on the requirements for enabling Pulse on NCI clusters, see Configuring Pulse in the *Prism Element Web Console Guide* on the Nutanix Support Portal.

Required Product Licenses

On-Premises NCI Clusters

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM) Pro or Ultimate
- Hypervisor licenses for NCI

NCM Software-as-a-Service for Supported Public Cloud Platforms

- Nutanix Cloud Manager (NCM) SaaS – Cost Governance

Delivered Artifacts

- As-built Guide
- Test Plan

Duration

Typically up to 1 day, delivered virtually

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM)
- Nutanix Cloud Manager (NCM) SaaS

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Automation Development Sprint Service

Product Code: CNS-CAS-A-SVC-ADS

At-a-Glance

Stage: Automate

With Nutanix's Automation Development Sprint Service, Nutanix Automation experts collaborate with customer engineers, architects, and developers to create custom automation solutions utilizing Nutanix Cloud Manager or other automation solutions such as Terraform or Ansible. This offer is ideal for the Automate stage of a hybrid multicloud journey.

Related Services

- Automation Development Design Workshop
- NCM Self-Service Design Workshop

Service Scope

Highly skilled architects and consultants with solid automation domain expertise and rich experience provide automation development services in incremental 2-week agile sprints.

Each sprint's goals are established during a sprint planning session, followed by the sprint itself, where the development team focuses on working towards those goals for the remainder of the sprint. After the sprint, a sprint closeout is conducted to review what's been completed and to identify recommended next steps.

This service is offered in 3 editions to maximize productivity, depending on project size and complexity and the ability to perform parallel code development.

Starter Edition

The Starter Service is suited for a proof of concept, smaller projects, or augmenting established automation development teams already part of internal development sprints.

The Starter Edition focuses on code development and enhancements following the existing Design Documentation. The work is performed by a single Nutanix architect working with the customer's team.

Pro Edition

The Pro Service is suited for more extensive production projects or customers requiring deeper integration with their application, development, and engineering teams.

The Pro Edition provides an additional consultant that can accelerate development work. This larger team can provide technical oversight and general architectural guidance for the automation project.

Ultimate Edition

The Ultimate Service is suited for those benefitting from a comprehensive development team to accelerate code creation velocity while adhering to industry best practices. This service is especially valuable for customers who would like to enhance the capabilities of their infrastructure automation and development teams.

The Ultimate Edition provides an entire group of experienced architects and consultants collaborating to create automation development practices to deliver custom Infrastructure as a Service (IaaS) and

Infrastructure as Code (IaC) solutions. The team provides high-level oversight from an architectural perspective and low-level, detail-oriented development work.

Limitations

- Quantity of sprints limited to the quantity specified at the time of purchase

Starter Edition

- Engagement includes a single Nutanix architect

Pro Edition

- Engagement includes a single Nutanix architect and 1 experienced consultant

Ultimate Edition

- Engagement includes a single Nutanix architect and 2 experienced consultants

Supported Automation Tools

- Nutanix Cloud Manager (NCM) Self-Service
- Terraform
- Ansible

Supported Target Provider Accounts

Provider accounts are cloud services, bare-metal, or existing machines used to deploy, monitor, and govern applications.

- Nutanix AHV
- VMware ESXi
- Amazon AWS
- Microsoft Azure
- Google GCP
- Kubernetes Platforms

Prerequisites

- Remote access to a preferred development environment, such as a virtual desktop or VPN

  Note: Zoom, WebEx, and Microsoft Teams are not recommended

Nutanix Cloud Manager (NCM) Self-Service Automation Solution (On-premises Only)

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Cluster (NC2) cluster that meets all product requirements for Prism Central and NCM Self-Service

  Note: For information on the requirements for deploying NCM Self-Service, see Calm Prerequisites and Deployment in *Calm Administration and Operations Guide* on the Nutanix Support Portal.

- Fully supported and functional on-premises Prism Central instance

Note: For information on the requirements for configuring NCM Intelligent Operations, see *Prism Central Installation* or *Upgrade in Prism Central Infrastructure Guide* on the Nutanix Support Portal.

Required Product Licenses

NCM Self-Service Automation Solutions

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM) Pro, Ultimate or SaaS
- Hypervisor licenses for NCI

Other Automation Solutions (Terraform and Ansible)

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- Public Cloud Platform subscriptions as needed

Delivered Artifacts

- Solution Document for Sprint Output (Code, Blueprints, etc.)
- Updated Automation Solution Document at the End of a Sprint series

Duration

Starter Edition

Resource	Hours	Description
Architect	80 (40 hours per week, 2 weeks)	Sprint Planning · Daily Scrums/Updates · Design Validation · Code Enhancements and Development · Weekly Update Calls · Sprint Close Out

Pro Edition

Resource	Hours	Description
Architect	80 (40 hours per week, 2 weeks)	Sprint Planning · Technical Oversite · Daily Scrums/Updates · Design Validation · Code Enhancements and Development · Weekly Update Calls · Sprint Close Out
Sr Consultant	80 (40 hours per week, 2 weeks)	Daily Scrums/Updates · Code Enhancements and Development · Weekly Update Calls · Sprint Close Out

Ultimate Edition

Resource	Hours	Description
Architect	80 (40 hours per week, 2 weeks)	Sprint Planning · Technical Oversite · Daily Scrums/Updates · Design Validation · Code Enhancements and Development · Weekly Update Calls · Sprint Close Out
Sr Consultant 1	80 (40 hours per week, 2 weeks)	Daily Scrums/Updates · Code Enhancements and Development · Weekly Update Calls · Sprint Close Out
Sr Consultant 2	80 (40 hours per week, 2 weeks)	Daily Scrums/Updates · Code Enhancements and Development · Weekly Update Calls · Sprint Close Out

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Cloud Manager (NCM)

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Nutanix Database Service (NDB) & Database Services

NUTANIX

Database Recommended Practices

Product Code: CNS-DBM-A-WRK-DRP

At-a-Glance

Stage: Plan

Database Recommended Practices offers database teams in-depth insights into Nutanix-recommended databases hosted on the Nutanix Cloud Platform (NCP). This offer is ideal for the Plan stage of a hybrid multicloud journey and is suitable for new and existing database workloads.

Related Services

- Database Planning and Assessment Workshop
- Database Design Workshop

Service Scope

Delivered by highly skilled consultants with solid database domain expertise and rich experience, the workshop provides recommendations for designing, optimizing, and scaling database workloads on NCP. Database workshops require collaboration with key customer stakeholders from architecture, databases, and applications.

The service includes the following activities:

- Conduct a database recommended practices workshop
- Review current pain points and any previously created database vendor support tickets
- Discuss design and configuration considerations when architecting database solutions on NCP
- Provide an overview of Nutanix recommended practices for running database workloads in areas such as NCP Cluster configuration, database server virtual machines (VMs), and network and database configuration
- Discuss virtualization optimizations for the supported hypervisor in use

Limitations

- Each workshop covers one supported database listed below
- Excludes design or migration planning

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Completed Database Questionnaire
- Information on previously created database vendor support tickets

Required Product Licenses

- None

Delivered Artifacts

- High-level Summary Presentation

Duration

Typically up to 1 day, delivered virtually

> **Note:** In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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Database Planning and Assessment Workshop

Product Code: CNS-DBM-A-WRK-PAS-STD

At-a-Glance

Stage: Assess

The Database Planning and Assessment Workshop offers database teams an assessment of the current database environment with the essential knowledge and planning insights needed to successfully bring databases workloads onto the Nutanix Cloud Platform (NCP). This workshop is ideal for the Assess stage of the hybrid multicloud journey.

Related Services

- Database Recommended Practices
- Database Design Workshop

Service Scope

Delivered by highly skilled consultants with solid database domain expertise and rich experience, the workshop begins with a discovery session. Utilizing the completed questionnaire, the consultant guides the database team through a detailed review of existing infrastructure, database footprint, and associated SLAs.

The consultant assesses database and server performance metrics, working closely with database teams to discover pain points and identify where most of their time is spent. Database workshops require collaboration with key customer stakeholders from architecture, virtualization, and database teams.

Upon completion of this workshop, database teams will:

- Recognize areas for database improvement based on an in-depth review of the current design, environment, and operational processes
- Understand recommendations for improving the performance, scalability, and efficiency of the database platform when using Nutanix-based solutions

The service includes the following activities:

- Discover pain points and collect data
- Assess and summarize the database environment in terms of its current health and architecture, with a focus on technical aspects and business requirements
- Review and apply relevant industry database recommended practices
- Document clear recommendations for improving the performance, manageability, and scalability of the database environment in alignment with Nutanix solutions
- Leverage documentation to review recommended practices and communicate current infrastructure and database concerns to business stakeholders
- Discuss Nutanix-based solution migrating operational efficiency and performance

Limitations

- Each workshop covers one supported database listed below
- For each quantity purchased, the workshop is limited to one database. A minimum of 5 databases of the same type is required.
- Deployment and migration are not included in the workshop

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Prerequisites

- Completed Database Configuration Worksheet

Required Product Licenses

- None

Delivered Artifacts

- Assessment Report

Duration

Typically up to 3 days for the initial database, plus 4 hours for each additional database

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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Database Design Workshop

Product Code: CNS-DBM-A-WRK-DES-STD

At-a-Glance

Stage: Design

The Database Design Workshop provides invaluable support to database teams by offer in-depth and practical guidance for creating a robust and comprehensive design tailored explicitly for running databases on Nutanix Cloud Infrastructure (NCI) clusters or Nutanix Cloud Clusters (NC2).

This workshop covers critical aspects, including capacity planning, performance optimization, security considerations, and ensuring high availability. The workshop proves particularly beneficial during the Design stage of a hybrid multicloud journey, especially for complex database solutions such as Database-as-a-Service (DBaaS). By leveraging the expertise gained from the workshop, database teams can ensure an optimized and well-architected database environment, enhancing performance, security, and overall operational efficiency.

Related Services

- Database Planning and Assessment Workshop
- Database Recommended Practices

Service Scope

Highly skilled consultants with strong database domain expertise and rich experience begin with assessing the existing database environment and understanding capacity, performance, security, and availability requirements. After the design workshop, the consultant develops a Database Design Document and Configuration workbook that addresses conceptual, logical, and physical database design elements. It also details requirements, constraints, assumptions, design decisions, identified risks, and mitigations. Database workshops require collaboration with key customer stakeholders from architecture, databases, and applications.

The service includes the following activities:

- Conduct a database design workshop:
  - Discuss the design goals and gather business and technical requirements, including risks, constraints, and assumptions
  - Review and validate requirements against existing NCI or NC2 cluster(s)
- Create a database design addressing requirements identified during the workshop, including:
  - NCI or NC2 cluster and database virtual machine (VM) sizing
  - NCI or NC2 cluster design, if applicable
  - Network requirements
  - Security
  - Data protection
  - Availability
  - Recoverability

- Ensure that the design includes recommended practices for both infrastructure and database engine

Limitations

- For each quantity purchased, design is limited to up to 5 databases for one of the supported databases listed below

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Completed Database Configuration Worksheet
- Existing database and database VM performance metrics

Required Product Licenses

- None

Delivered Artifacts

- Design Document

Duration

Typically up to 3 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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NDB Deployment and Database Migration

Product Code: CNS-DBM-STR-STD

At-a-Glance

Stage: Deploy and Migrate

The Nutanix Database Services (NDB) Deployment and Database Migration service offers database teams in-depth and practical guidance to create a comprehensive database migration plan for migrating databases to the Nutanix Cloud Platform (NCP). Additionally, highly skilled consultants migrate the databases and deploy and configure NDB. This offer benefits the Deploy and Migrate stages of a hybrid multicloud journey.

Service Scope

Highly skilled consultants with solid database domain expertise and rich experience begin with a database migration planning workshop. After the migration workshop, the consultant develops a Migration Plan document and migrates the databases. The consultant then deploys and configures NDB and demonstrates database lifecycle management with NDB. Database workshops require collaboration with key customer stakeholders from architecture, virtualization, and database teams.

The service the following activities:

Database Migration Planning and Migration

- Conduct a database migration planning workshop
- Create database migration plan and rollback options
- Deploy a database virtual machine (VM) and an empty database
- Validate source and target database(s)
- Migrate database(s)
- Validate the migrated database(s)

Database Reference VM Creation

- Collect Reference VM details
- Build Reference VM to meet NDB requirements
- Discuss recommended practices implemented in the Reference VM

NDB Deployment

- Conduct an architectural overview and review of NCI and NDB components
- Review NDB features and functionality
- Deploy and configure NDB
- Demonstrate the use of NDB based on the use case

Limitations

- For each quantity purchased, NDB deployment is limited to a single on-premises NCI or NC2 cluster
- Database migration is limited to 2 databases of the same supported database listed below or 2 TiB of total database size in a single migration wave
- Database Reference VM creation is limited to a single Reference VM of one of the supported databases listed below
- Database lifecycle management with NDB demonstration is limited to a single instance/database of supported database type

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Completed Database Configuration Worksheet
- Template VM for a supported database type

  Note: For information on the supported AOS, AHV, and vSphere software versions for NDB, see NDB Software Compatibility with Nutanix and VMware Product in *Nutanix Database Service Release Notes* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Database Service (NDB)
- Hypervisor licenses for NCI
- Database software licenses for target databases

Delivered Artifacts

- Migration Plan
- Migration Procedure
- Migration Summary

- As-built Guide

Duration

Typically up to 9 days, delivered virtually

> **Note:** In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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NDB Deployment

Product Code: CNS-DBM-A-SVC-EDP-STD

At-a-Glance

Stage: Deploy

Nutanix Database Service (NDB) Deployment accelerates the deployment of NDB, simplifying database management and speeding up software development across clouds. Database teams can deploy NDB on an on-premises Nutanix Cloud Infrastructure (NCI) cluster or Nutanix Cloud Clusters (NC2). Additionally, highly skilled consultants create a Database Reference VM for one of the supported databases. This offer is ideal for the Deploy stage of a hybrid multicloud journey.

Service Scope

Highly skilled consultants with solid database domain expertise and rich experience begin with creating a Database Reference virtual machine (VM). After creating the VM, the consultant installs and configures NDB and demonstrates database lifecycle management with NDB.

The service includes the following activities:

Database Reference VM Creation

- Collect Reference VM details
- Build Reference VM to meet NDB requirements
- Discuss recommended practices implemented in the Reference VM

NDB Deployment

- Conduct an architectural overview and review of NCI and NDB components
- Review NDB features and functionality
- Deploy and configure NDB
- Demonstrate the use of NDB based on the use case

Limitations

- For each quantity purchased, deployment is limited to a single on-premises NCI or NC2 cluster
- Database Reference VM creation is limited to a single Reference VM of one of the supported databases listed below

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Completed Database Configuration Worksheet

  Note: For information on the supported AOS, AHV, and vSphere software versions for NDB, see NDB Software Compatibility with Nutanix and VMware Product in *Nutanix Database Service Release Notes* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Database Service (NDB)
- Hypervisor licenses for NCI
- Database software licenses for target databases

Delivered Artifacts

- As-built Guide

Duration

Typically up to 4 days, delivered virtually

Note: In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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NDB Expansion

Product Code: CNS-DBM-A-NDB-EXP

At-a-Glance

Stage: Deploy

Nutanix Database Service (NDB) expansion accelerates the expansion of NDB by enabling the NDB multicluster option for managing the database lifecycle across an additional Nutanix Cloud Infrastructure (NCI) or Nutanix Cloud Clusters (NC2) cluster. This offer is ideal for the Deploy stage of a hybrid multicloud journey.

Service Scope

Highly skilled consultants with solid database domain expertise and rich experience begin with evaluating the existing NDB deployment. After the evaluation, the consultant enables the NDB multicluster option to manage the database lifecycle across an additional NCI or NC2 cluster.

The service includes the following activities:

- Review the existing NDB instance's current state and configuration
- Enable NDB multicluster support
- Register an additional cluster with NDB
- Synchronize an existing software profile or create one new software profile from an existing database virtual machine (VM) running on the new cluster
- Demonstrate NDB multicluster database deployment
- Configure and demonstrate database protection across multiple clusters using NDB Time Machine construct

Limitations

- For each quantity purchased, expansion is limited to a single on-premises NCI or NC2 cluster expansion
- Demonstration of NDB multicluster database deployment is limited to a single clustered database of a supported database listed below
- Includes synchronizing a single existing software profile or creating a single new software profile
- Database lifecycle management with NDB demonstration is limited to a single instance/database of a supported database listed below

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster or NC2 that meets all product requirements
- A fully functional NDB Instance
- For a new software profile creation, a template VM for a supported database type

> **Note:** For information on the supported AOS, AHV, and vSphere software versions for NDB, see NDB Software Compatibility with Nutanix and VMware Product in Nutanix Database Service Release Notes on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Database Service (NDB)
- Database software licenses for target databases

Delivered Artifacts

- As-built Guide

Duration

Typically up to 3 days, delivered virtually

> **Note:** In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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NDB Database Patching

Product Code: CNS-DBM-A-SVC-PAT-STD

At-a-Glance

Stage: Deploy

Nutanix Database Service (NDB) Database Patching accelerates the deployment of NDB patching, which speeds the rollout of security patches across some or all the databases managed by NDB. This offer is ideal for the Deploy stage of a hybrid multicloud journey.

Related Services

- NDB Deployment and Database Migration
- NDB Deployment

Service Scope

Highly skilled consultants with solid database domain expertise and rich experience begin manually patching a database VM to create a software profile version. The consultant then demonstrates how to patch one non-production database VM.

The service includes the following activities:

- Collect information for existing Nutanix Cloud Infrastructure (NCI) cluster or Nutanix Cloud Clusters (NC2) and database server VMs registered to NDB
- Review NDB patching feature compatibility with the supported database type
- Verification of existing NDB instance
- Manually patch an existing database VM
- Create a new NDB software profile version
- Demonstrate how to apply the database patch to one non-production database VM

Limitations

- Limited to one NDB instance and one of the supported databases listed below
- NDB software profile version is limited to 1 existing profile
- NDB patching demonstration is limited to one non-production database

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

  Note: For information on the requirements for NCI Clusters, *see* Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Fully supported and functional NDB instance

  Note: For information on the supported AOS, AHV, and vSphere software versions for NDB, see NDB Software Compatibility with Nutanix and VMware Product in *Nutanix Database Service Release Notes* on the Nutanix Support Portal.

- One non-production database
- Existing NDB software profile
- Database patch from database vendor is accessible and available for use

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Database Service (NDB)
- Hypervisor licenses for NCI
- Database software licenses for target databases

Delivered Artifacts

- As-built Guide

Duration

Typically up to 2 days, delivered virtually

Note: In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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NDB Database Cloning

Product Code: CNS-DBM-A-SVC-ARC-STD

At-a-Glance

Stage: Deploy

Nutanix Database Service (NDB) Database Cloning offers database teams in-depth and practical guidance to create a comprehensive database cloning solution to protect and copy databases running on the Nutanix Cloud Platform and managed by NDB. NDB creates and refreshes clones to a point-in-time either by using database transaction logs or by using snapshots. Clones are created and refreshed to point-in-time in minutes, accelerating clone and refresh operations. This offer benefits the Deploy stage of a hybrid multicloud journey.

Related Services

- NDB Deployment and Database Migration
- NDB Deployment

Service Scope

Highly skilled consultants with solid database domain expertise and rich experience begin with an enablement session providing an overview of how to define service-level agreements (SLAs) in NDB and how to apply those SLAs to databases through the NDB Time Machine. NDB Time Machine leverages the Nutanix time-efficient snapshots to create database clones. These database clones are highly space-efficient, consuming near-zero bytes with only the further writes constituting its size, significantly lowering the cost of managing multiple copies of databases. After the enablement session, the consultant configures and demonstrates NDB Time Machine and copy data management (CDM) for database cloning. Enablement sessions require collaboration with key stakeholders from database and backup teams.

The service includes the following activities:

- Conduct an enablement session introducing NDB Time Machine and Cloning
    - Provide an overview of the backup architecture of the supported database and how NDB SLA constructs are based on backup policies
    - Explain the significance of the NDB Time Machine in defining backup policies
    - Explain how to configure SLAs in terms of backup and retention
    - Understand backup and recovery requirements and define SLA policies
    - Explain database backup management using SLAs
        - Snapshot frequency based on the defined RPO and RTO
        - Log catch-up requirement
- Demonstrate database protection and restoration from Time Machine
- Configure NDB CDM for one of the supported databases listed below

- Demonstrate NDB CDM options for creating clones, including:
  - Schedule
  - Refresh
  - Pre/post command execution

Limitations

- Cloning is limited to one NDB instance and one supported database listed below
- Definition of SLAs limited to 2 SLA profiles based on business requirements
- Demonstrations limited to 1 non-production database VM

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Fully supported and functional NDB instance

  Note: For information on the supported AOS, AHV, and vSphere software versions for NDB, see *NDB Software Compatibility with Nutanix* and *VMware Product in Nutanix Database Service Release Notes* on the Nutanix Support Portal.

- One non-production database
- Existing database Time Machine for cloning

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Database Service (NDB)
- Hypervisor licenses for NCI
- Database software licenses for target databases

Delivered Artifacts

- As-built Guide

Duration

Typically up to 2 days, delivered virtually

Note: In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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Database Migration Workshop

Product Code: CNS-DBM-A-WRK-MIG-STD

At-a-Glance

Stage: Migrate

The Database Migration Workshop offers database teams in-depth and practical guidance to create a comprehensive database migration plan for migrating databases to the Nutanix Cloud Platform (NCP). Additionally, highly skilled consultants migrate a test database. This offer benefits the Migrate stage of a hybrid multicloud journey.

Related Services

- Database Migration

Service Scope

Highly skilled consultants with solid database domain expertise and rich experience begin with a discovery session that collects availability requirements, current and desired database versions, application dependencies, and maintenance windows. The consultant then conducts a workshop based on the discussions undertaken during the discovery session and creates a migration plan. Migration of a test database is also performed. Database workshops require collaboration with key customer stakeholders from architecture, virtualization, and database teams.

The service includes the following activities:

- Conduct a database migration discovery session:
  - Discuss migration goals such as availability requirements, current and desired database versions, application dependencies, and maintenance windows.
- Conduct database migration workshop:
  - Discuss migration options and constraints for each migration method based on the database versions, operating system, and application availability
  - Review database sizing and performance requirements
- Create database migration plan and rollback options
- Conduct migration of a test database to NCP

Limitations

- For each quantity purchased, database migration planning is limited to 5 of one of the supported databases listed below
- Database migration is limited to one of the supported databases listed below and one test database of 200 GB of total database size

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the Field Installation Guide on the Nutanix Support Portal.

- Completed Database Configuration Worksheet
- Template VM for a supported database type

  Note: For information on the supported AOS, AHV, and vSphere software versions for NDB, see NDB Software Compatibility with Nutanix and VMware Product in *Nutanix Database Service Release Notes* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- Database software licenses for target databases

Delivered Artifacts

- Migration Plan
- Migration Summary

Duration

Typically up to 3 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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Database Migration

Product Code: CNS-DBM-A-MIG

At-a-Glance

Stage: Migrate

Database Migration offers database teams strong database domain expertise to migrate database workloads to the Nutanix Cloud Platform (NCP). This offer is ideal for the Migrate stage of a Hybrid Multicloud journey.

Related Services

- Database Migration Workshop

Service Scope

Highly skilled consultants with strong database domain expertise and rich experience begin with validating the customer-provided migration plan to ensure the database migration requirements and rollback options are valid. The consultant then migrates the database(s) according to the migration plan.

The service includes the following activities:

- Validate database migration plan and rollback options
- Validate source and target database(s)
- Migrate the database(s) based on the migration plan
- Validate migrated database data and application connectivity after migration

Limitations

- Excludes migration planning
- For each quantity purchased, migration is limited to 1 database or up to 1 TiB
- A minimum of 3 databases per migration wave is required
- Excludes performance validation after the migration
- Minimum 1G (10G recommended) network availability is in place between the source and target database

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Customer-provided database migration plan
- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Completed Database Configuration Worksheet
- Target database VMs running on on-premises NCI or NC2 cluster

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- Database software licenses for target databases

Delivered Artifacts

- Migration Procedure
- Migration Summary

Duration

Typically 3 days for the first database or 1 TiB size, plus 1 day for each additional quantity

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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Database FitCheck

Product Code: CNS-DBM-A-SVC-FIT

At-a-Glance

Stage: Optimize

The Database FitCheck offers database teams in-depth and practical guidance to identify potential performance issues, misconfiguration, and recommended practices for databases running on Nutanix Cloud Infrastructure (NCI) clusters or Nutanix Cloud Clusters (NC2). The offer proves potentially beneficial during the Optimize stage of a hybrid multicloud journey, especially for complex database solutions such as Database-as-a-Service (DBaaS). By leveraging the insights gained from performing the FitCheck, database teams can ensure an optimized and high-performing database environment.

Service Scope

A series of workshops are delivered by highly skilled consultants with strong database domain expertise and rich experience to evaluate existing supported databases deployed on a single on-premises NCI cluster or NC2 according to Nutanix recommended practices. After the assessment, the consultant creates a customized Findings Report with the current configuration of the databases and recommended remediations.

The service includes the following activities:

- Discover pain points and collect data on previous and existing support tickets
- Conduct a series of workshops with key customer stakeholders and subject matter experts (SMEs) to review recommended practices in various layers of the full technology stack, including NCI/NC2, hypervisor, and database
- Assess the current full-stack deployment in terms of configuration, operations, and usage
- Review the environment post-deployment to confirm a supported configuration that is aligned with Nutanix recommended practices
- Provide clear recommendations to improve the performance, manageability, and scalability of the database environment
- Serve as a reference to review recommended practices and communicate current infrastructure and database issues to stakeholders

Limitations

- For each quantity purchased, the Database FitCheck is limited to a single database virtual machine.
- Excludes remediation of identified issues but is available as a custom statement of work (SOW)

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- NCI Cluster FitCheck is required for all on-premises NCI cluster or NC2 clusters running the database virtual machines included in the Database FitCheck quantity purchased.
- Supported and functional on-premises NCI cluster or NC2

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Completed Database Configuration Worksheet
- Customer-provided database and database virtual machine (VM) performance metrics

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- Database software licenses

Delivered Artifacts

- As-built Guide(s)
- FitCheck Findings Presentation (optional)
- FitCheck Report

Duration

Typically up to 3-1/2-days for the first database and 6 hours for each additional database

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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End User Computing (EUC) Services

NUTANIX

EUC Discovery and Assessment Workshop

Product Code: CNS-EUC-A-WRK-TXF

At-a-Glance

Stage: Assess

The End User Computing (EUC) Discovery and Assessment Workshop offers IT teams an assessment of the current EUC environment with the essential knowledge and planning insights needed to successfully bring existing physical or virtual desktop inventory to the Nutanix Cloud Platform (NCP). This workshop provides a tool-based data collection effort and assessment to classify users, applications, and workstations. This workshop is ideal for the Assess stage of the hybrid multicloud journey.

Related Services

- EUC Broker Design Workshop
- EUC Broker Deployment

Service Scope

Delivered by highly skilled consultants with solid domain expertise and rich experience, the workshop begins with a discovery session. The consultant deploys the collection tool. Upon completion of the data collection, the consultant delivers a comprehensive analysis and current state assessment to ensure that resource and use case requirements are identified. This assessment supports a detailed, accurate design for a future state desktop and virtualization architecture using the Nutanix EUC Broker Design service.

The service includes the following activities:

- Conduct a discovery and collection session:
  - Assess the current state of systems, applications, and users
  - Deploy collection tool infrastructure
  - Assist with the deployment of collection agents
- Upon completion of the data collection period, conduct a current state assessment
  - Group users into categories/use cases to support desktop environment design
  - Assess application requirements for CPU, memory, GPU, network, and disk
  - Assess user and use case requirements for CPU, memory, GPU, network, and disk
  - Assess the use of peripherals, printing, and communications software
  - Assess network configuration impacts and requirements
  - Develop specifications for endpoint hardware, VMs, and software required for each use case

Limitations

- For each quantity purchased, assessment is limited to a pack of 500 individual systems or users
- Excludes EUC Broker design, deployment, and migration

Supported Collection Tools

- Liquidware Stratusphere UX

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS
- Omnissa Horizon
- Dizzion Frame

Prerequisites

- Completed EUC Discovery Configuration Worksheet
- Ability and capacity to install collection tool agent software in existing EUC environment for data collection
- Data collection period of 2 weeks minimum required, maximum 30 days

Required Product Licenses

- Collection Tool licensing is supplied, but use is limited to the scope defined above
- Additional agents or data collection period requires additional Collection Tool license purchase

Delivered Artifacts

- Findings Report

Duration

Typically up to 5 days plus data collection (up to 30 days)

Related Products

- End User Computing (EUC)

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EUC Broker Design Workshop

Product Code: CNS-EUC-A-WRK-BRK

At-a-Glance

Stage: Design

The End User Computing (EUC) Broker Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for an application or desktop virtualization solution. It covers various aspects such as scalability, functionality, integration, and operational needs. This workshop is beneficial during the Design stage of a hybrid multicloud journey, especially for EUC workloads.

Related Services

- EUC Discovery and Assessment Workshop
- EUC Broker Deployment

Service Scope

Highly skilled consultants with strong domain expertise and rich experience deliver a series of design workshops to ensure that the solution requirements and required outcomes are identified. Design workshops require collaboration with key customer stakeholders from architecture, virtualization, networking, and EUC teams. After the design workshop, the consultant develops a Nutanix Design Document and configuration workbook that addresses conceptual, logical, and physical NCI and EUC Broker design elements.

Essential Edition

For customers who want a basic Infrastructure design for greenfield EUC workloads.

The Essential Edition includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in a series of workshops
- Develop NCI architecture, including interoperability, security, and scalability for future growth
- Define integration with AD/LDAP and IPAM/DNS environments
- Develop NCI cluster design
- Design virtual networking, including integration with the physical network
- Design virtual storage, including container layout, compression, and de-duplication
- Validate NCI sizing based on workload details provided by the customer
- Design EUC Broker infrastructure for one supported EUC Broker
- Design security including data-at-rest encryption, SSL certificate, password complexity, and syslog
- Assess load balancing impact and requirements
- Define Gold Image configurations for either desktop VM or Remote Desktop Session Host (RDSH) VM
- Define access methods and requirements
- Define basic Profile Management and folder redirection configuration

  - Includes Citrix Profile Management
  - Omnissa DEM
  - Microsoft FSLogix standard Profile and Office Data File Container (ODFC)
  - Frame enterprise profiles
- Validate customer-provided infrastructure capacity based on sizing requirements and choice of supported hypervisors (including optional vGPU support)
- Plan Nutanix Unified Storage (NUS) Files data service architecture to support user workspace and profiles only
- Plan system functional testing for solution

Optional Activities for Essential Edition

- Validate vGPU support

Advanced Edition

For customers with advanced EUC environment requirements including application management, layering and Microsegmentation.

The Advanced Edition includes the following activities:

- Everything in the Essential Edition
- Conduct a high-level review of existing EUC environment to support sizing
- Plan EUC Broker VM and user data protection
- Plan one of the following Advanced Environment Management solutions:
  - Citrix Workplace Environment Management (WEM) agent
  - Omnissa Dynamic Environment Manager (DEM)
  - FSLogix Profile and ODFC with Cloud Cache
- Plan one of the following Application Layering solutions:
  - Citrix App Layering
  - Omnissa App Volumes
- Plan Nutanix Flow Network Security Microsegmentation within the EUC environment
- Plan user acceptance testing (UAT)
- Plan user onboarding

Site Design Topology

Each edition supports either a single site or a multisite DR topology design.

- **Single Site** - Single site EUC design in a single physical site or resource location
- **Multisite DR** – EUC DR active/active or active/passive design configuration, including user profile replication with NUS Files

Limitations

Essential Edition

- Limited to up to 2 distinct use cases

- Limited to up to 2 EUC Gold Image configurations
- Microsoft FSLogix configuration limited to standard Profile and ODFC

Advanced Edition

- Limited to up to 10 distinct use cases
- Limited to up to 10 EUC Gold Image configurations

Site Design Topology

Single Site

- Limited to a single physical site or public cloud region for the EUC use case only
- Limited to a single EUC broker deployment design

Multisite DR

- Limited to up to 2 physical sites or public cloud region for the EUC use case only
- Limited to up to 2 disparate EUC Broker deployment designs

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS
- Omnissa Horizon
- Dizzion Frame

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- None

Required Product Licenses

- None

Delivered Artifacts

- Configuration Workbook
- Design Document (Standard Documentation only)

Duration

	Essential	Advanced
Single Site	Typically up to 5 days	Typically up to 11 days

	Essential	Advanced
Multisite DR	Typically up to 12 days	Typically up to 15 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- End User Computing (EUC)

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EUC Multisite Design Workshop

Product Code: CNS-EUC-A-WRK-MS

At-a-Glance

Stage: Design

The End User Computing (EUC) Multisite Design Workshop offers IT teams in-depth and practical guidance to extend their existing application or desktop virtualization solution to support a multisite design leveraging Nutanix Cloud Infrastructure (NCI) Disaster Recovery (DR) solutions, including Asynchronous, NearSync, Synchronous DR, and Metro Availability. This workshop is beneficial during the Design stage of a hybrid multicloud journey, especially for EUC workloads.

Related Services

- EUC Disaster Recovery and Multisite Integration

Service Scope

Delivered by highly skilled consultants with strong domain expertise and rich experience to ensure that the disaster recovery solution requirements and required outcomes are identified. Design workshops require collaboration with key customer stakeholders from architecture, virtualization, networking, and EUC teams. After the design workshop, the consultant develops a Nutanix EUC Multisite Design Document and configuration workbook that addresses conceptual, logical, and physical NCI and EUC Broker multisite design elements.

> **Note:** The EUC Multisite Design Workshop is intended to add multisite support to an existing EUC Broker deployment. For a net-new EUC design that includes multisite deployment, the EUC Broker Design Workshop is available.

The service includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions, including recovery point (RPO) and recovery time (RTO) requirements
- Map RPO and RTO requirements into a DR solution
- Define cross-site user and Gold Image failover requirements
- Review Nutanix DR technologies and how each would fit into the EUC multisite solution
- Review EUC Broker infrastructure requirements to support an EUC multisite solution, including:
  - Access methods
  - Nutanix Unified Storage (NUS) Files data service architecture hosting Citrix Profile Management, Microsoft FSLogix Profile and Office Data File Containers (ODFC), or Dizzion Frame enterprise profiles
  - SQL Server databases, if required by the EUC Broker
- Develop a plan for system functional validation testing

Optional Activities

- Review EUC Broker infrastructure requirements for NVIDIA License System

Asynchronous or NearSync DR Solutions

- Design availability zones
- Design protection policies
- Design recovery plans
- Design custom IP mappings
- Design categories

Synchronous and Metro Availability Solutions

- Design remote sites
- Design witness
- Design containers
- Design DRS / Affinity / HA settings on VMware ESXi clusters

Protection Domain-based Solutions

- Design remote sites
- Design protection domains
- Design VM classification

Limitations

- Expands existing single-site design to multisite EUC design

  Note: This workshop intends to add multisite support to an existing EUC Broker deployment. For a net-new EUC design that includes multisite deployment, the EUC Broker Design Workshop is available.

- For each quantity purchased, the design is limited to one source physical site or public cloud region and one target physical site or public cloud region. Larger environments are accommodated via a custom statement of work (SOW)
- Up to 5 distinct use cases
- Up to 5 EUC Gold Image configurations

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS
- Omnissa Horizon
- Dizzion Frame

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Fully supported and functional EUC Broker environment that meets all product requirements

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- EUC Broker licensing

Delivered Artifacts

- Configuration Workbook
- Design Document

Duration

Typically up to 4 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- End User Computing (EUC)

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EUC Broker Deployment

Product Code: CNS-EUC-A-SVC-BRK-DEP

At-a-Glance

Stage: Deploy

The End User Computing (EUC) Broker Deployment service accelerates the deployment of a supported EUC Broker. In addition, Nutanix creates an optimized Gold Image for consumption by an application or desktop virtualization solution. EUC teams have a choice of a variety of supported EUC Brokers. This offer is ideal for the Deploy stage of the hybrid multicloud journey for EUC workloads.

Related Services

- EUC Broker Design Workshop
- EUC Advanced Application Layering Deployment
- EUC Advanced Environment Management Deployment

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin by deploying the EUC Broker and creating the Gold Image according to Nutanix recommended practices and the customer-provided Design Document and use case documentation. The Gold Image is then used for consumption by an application or desktop virtualization solution. After the deployment, the consultant creates a customized As-built Guide and updated configuration workbook to document the final configuration of the EUC Broker.

Citrix Virtual Apps and Desktops (CVAD) or Desktop as a Service (DaaS)

For customers with Citrix-based EUC Brokers.

The service includes the following activities:

- Review customer-provided design and configuration documentation
- Deploy Citrix broker infrastructure to support a single Citrix site according to a customer-provided Design Document
  - Deploy Cloud Connectors (Citrix DaaS)
  - Deploy Citrix Delivery Controller servers (CVAD)
  - Verify existing customer-provided Microsoft SQL Server infrastructure to support Citrix broker infrastructure
  - Deploy Citrix StoreFront servers
  - Configure Citrix policies according to the customer-provided Design Document
- Configure Active Directory (AD) groups, organizational units (OU), and base Group Policy Objects (GPO) according to the customer-provided Design Document
- Configure Profile Management and Folder according to the customer-provided customer Design Document
  - Citrix User Layers

  - Microsoft FSLogix standard Profile and ODFC
- Assist with installing and integrating a single base Windows Gold Image with base OS optimizations, required broker agent software, supported hypervisor, and GPU

Optional Activities for CVAD

- Configure StoreFront aggregation
- Deploy Citrix Provisioning servers
- Deploy Nutanix plugins for Machine Creation Services (MCS) and Citrix Provisioning Services (PVS)
- Deploy a virtual Citrix NetScaler (Application Delivery Controller) appliance and Citrix Application Delivery Management (ADM) for pooled capacity licensing requirements
  - Configure Citrix NetScaler (ADC) requirements for Citrix components
- Deploy NVIDIA License System

Omnissa Horizon

For customers who want a Omnissa Horizon-based EUC solution.

The service includes the following activities:

- Review customer-provided design and configuration documentation
- Deploy Omnissa Horizon management broker infrastructure to support a Horizon pod according to a customer-provided Design Document
  - Deploy Omnissa Horizon connection servers
  - Deploy Omnissa Universal Access Gateway appliances
  - Verify existing customer-provided Microsoft SQL Server infrastructure to support Horizon broker infrastructure
  - Configure Horizon policies within connection servers
- Configure Active Directory (AD) groups, organizational units (OU), and base Group Policy Objects (GPO) according to the customer-provided Design Document
- Configure Profile Management and Folder Redirection according to the customer-provided Design Document
  - Omnissa DEM
  - Microsoft FSLogix standard Profile and ODFC
- Assist with installing and integrating a single base Windows Gold Image with base OS optimizations, required broker agent software, supported hypervisor, and GPU drivers

Optional Activities for Horizon

- Deploy a virtual Citrix NetScaler (ADC) appliance and Citrix ADM for pooled capacity licensing requirements
- Configure Citrix NetScaler (ADC) requirements for Horizon components
- Deploy NVIDIA License System

Dizzion Frame

For customers who want a Frame-based EUC solution.

The service includes the following activities:

- Review customer-provided design and configuration documentation
- Deploy Frame broker infrastructure, configuration, and connectivity to support a physical site or public cloud region according to a customer-provided Design Document
- Configure Frame customer, organization, and account(s)
- Configure SAML2 identity provider for user authentication
- Register NCI cluster running AHV or customer-provided AWS, Azure or GCP cloud subscription
- For NCI clusters running AHV:
  - Deploy and configure Frame Cloud Connector appliances
  - Configure Prism Central to support Frame
  - Configure Active Directory (AD) groups, organizational units (OU), and base Group Policy Objects (GPO) according to the customer-provided Design Document
  - Configure storage mount points according to the customer-provided Design Document
  - Assist with installing and integrating a single base Windows Gold Image with base OS optimizations, required broker agent software, supported hypervisor, and GPU drivers
- Configure Profile Management and Folder Redirection according to the customer-provided Design Document
- Frame Enterprise Profiles
- Microsoft FSLogix standard Profile and Office Data File Container (ODFC)

Optional Activities for NCI Clusters Running AHV

- Deploy and configure the Frame Streaming Gateway appliance(s)
- Deploy NVIDIA License System

Limitations

- For each quantity purchased, deployment is limited to a single physical site and one Gold Image
- For EUC multisite integration deployments, the *EUC Disaster Recovery & Multisite Integration* service is required
  - Multisite DR deployments require quantity 1 for each physical site
- Excludes creation or updates to customer-provided Design Documentation
- Excludes Microsoft FSLogix Cloud Cache

Citrix Virtual Apps and Desktops (CVAD) or Desktop as a Service (DaaS)

- Limited to:
  - Up to 2 virtual machine resources per component in a high availability (HA) configuration as per the design
  - Up to 4 load-balanced VIPs and 2 Citrix Gateways on Citrix NetScaler configuration
  - Virtual NetScaler deployment only
    - NetScaler configuration applicable for both physical and virtual appliances

    - Up to 3 base GPOs per existing design
    - One Windows-based Gold Image
        - Excludes custom application installs
        - OS optimizations based on template recommendations only
- Excludes Citrix Workplace Environment Management (WEM) agent configuration

Omnissa Horizon

- Limited to:
    - Up to 1 Horizon pod
    - Up to 2 virtual machine resources per component in a HA configuration as per the design
    - Up to 3 base GPOs per existing design
    - One Windows-based Gold Image
        - Excludes custom application installs
        - OS optimizations based on template recommendations only
- Excludes Omnissa Dynamic Environment Manager (DEM) agent configuration

Dizzion Frame

- Limited to:
    - Up to 1 physical site or public cloud region
    - Up to 2 Frame Cloud Connector appliances in a HA configuration as per the design
    - Up to 2 Frame Streaming Gateway appliances in a HA configuration as per the design
    - Up to 3 base GPOs per existing design
    - One Windows-based Gold Image
        - Excludes custom application installs
        - OS optimizations based on template recommendations only

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS
- Omnissa Horizon
- Dizzion Frame

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

> **Note:** For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Customer-provided Design Document
- Completed Pre-Install Questionnaire

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- EUC Broker licensing
- Software licenses for Gold Image

Delivered Artifacts

- As-built Guide

Duration

Typically up to 6 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- End User Computing (EUC)

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EUC Advanced Application Layering Deployment

Product Code: CNS-EUC-A-SVC-DEP-AAM

At-a-Glance

Stage: Deploy

The End User Computing (EUC) Advanced Application Layering Deployment service accelerates the deployment of supported EUC user application layering management solutions to simplify the operating system (OS), applications, and user personalization management. The Advanced Application Layering is deployed on an existing EUC Broker environment. This offer is ideal for the Deploy stage of the hybrid multicloud journey for EUC workloads.

Related Services

- EUC Broker Design Workshop
- EUC Advanced Environment Management Deployment

Service Scope

Highly skilled consultants with solid EUC domain expertise and extensive experience deploy the supported EUC application layering management solutions according to Nutanix recommended practices and the customer-provided Design Document and use case documentation. After the deployment, the consultant creates a customized As-built Guide and updated configuration workbook to document the final configuration of the EUC Application Layering Management solution.

The service includes the following activities for one of the supported EUC Application Layering Management solutions:

Citrix App Layering

- Deploy Citrix Enterprise Layer Manager appliance
- Create an operating system (OS) layer using an existing base OS Layer
- Configure a platform layer based on the OS layer
- Create use case-determine layer(s)
- Install assistance for use case-determined layer(s) for an application or agent
- Configure assistance for AV security agents according to recommended practices
- Apply recommended OS and application optimizations
- Functionally validate the layers and application launch

Optional Activities for Citrix App Layering

- Configure integration to Active Directory
- Configure integration to existing file server infrastructure
- Configure connection to existing hypervisor or cloud infrastructure

Omnissa App Volumes

- Deploy Omnissa App Volumes manager(s)
- Configure the required Microsoft SQL Server database deployed on existing SQL Server infrastructure
- Install App Volumes Agent into an existing Gold Image
- Configure assistance for AV security agents according to recommended practices
- Apply recommended OS and application optimizations
- Functionally validate the layers and application launch

Optional Activities for Omnissa App Volumes

- Configure integration to Active Directory
- Configure integration to existing hypervisor infrastructure

Limitations

- For each quantity purchased, deployment is limited to a single production environment at 1 physical site for a single supported broker

Citrix App Layering

- Up to 1 Citrix Enterprise Layer Manager Appliance
- Up to 1 operation system (OS) Layer
- Up to 1 platform layer
- Up to 5 use case-determined layers containing either 1 application or agent
- Application layer(s) may include 1 user application or 1 anti-virus (AV) security agent

Omnissa App Volumes

- Up to 2 Omnissa App Volume Managers
- Up to 1 App Volume Agent for 1 existing Gold Image
- Application layer(s) may include 1 user application or 1 AV security agent
- AppStacks that contain multiple applications or agents; each application or agent counts against the total of 5 layers

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS
- Omnissa Horizon

Supported EUC Application Layering Management Solution

- Citrix App Layering
- Omnissa App Volumes

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Fully supported and functional EUC Broker environment that meets all product requirements
- Customer-provided Design Document detailing the layers that need to be created and which applications or agents are contained within each layer
- Completed Pre-Install Questionnaire
- A single, fully patched base OS image with only hypervisor tools installed

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- EUC Broker licensing, including for Citrix App Layering or Omnissa App Volumes

Delivered Artifacts

- As-built Guide

Duration

Typically 5 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- End User Computing (EUC)

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EUC Advanced Environment Management Deployment

Product Code: CNS-EUC-A-SVC-DEP-ENV

At-a-Glance

Stage: Deploy

The End User Computing (EUC) Advanced Environment Management Deployment service accelerates the deployment of supported EUC Environment Management Solutions to deliver the best possible performance, desktop login, and application response times for supported EUC Brokers. The Advanced Environment Management solution is deployed on an existing EUC Broker environment. This offer is ideal for the Deploy stage of the hybrid multicloud journey for EUC workloads.

Related Services

- EUC Broker Design Workshop
- EUC Advanced Application Layering Deployment

Service Scope

Highly skilled consultants with solid EUC domain expertise and extensive experience deploy the supported EUC Environment Management Solutions according to Nutanix recommended practices and the customer-provided Design Document. After the deployment, the consultant creates a customized As-built Guide and updated configuration workbook to document the final configuration of the EUC Environment Management Solution.

The service includes the following activities for one of the supported EUC Environment Management Solutions:

Citrix Workspace Environment Manager

- Review existing design, requirements, and planned use case(s)
- Deploy and configure up to 2 Citrix WEM brokers
- Configure the required Microsoft SQL Server database in an existing SQL Server infrastructure
- Configure Active Directory Group Policy Objects (GPO) as required by design
- Configure environment management policies based on the existing design
- Install and configure required environment management agents and Gold Images
- Configure assistance for anti-virus (AV) and security agents following recommended industry best practices
- Functionally validate the policies, configurations, and application launch

Optional Activities for Citrix WEM

  - Configure integration to existing file server infrastructure
  - Configure integration to existing hypervisor infrastructure

Omnissa Dynamic Environment Manager

- Review existing design, requirements, and planned use case(s)
- Configure Active Directory GPOs as required by design
- Configure environment management policies based on the existing design
- Install and configure required environment management agents and Gold Images
- Configure assistance for AV and security agents following recommended industry best practices
- Functionally validate the policies, configurations, and application launch

Optional Activities for Omnissa DEM

- Configure integration to existing file server infrastructure
- Configure integration to existing hypervisor infrastructure

Microsoft FSLogix

- Review existing design, requirements, and planned use case(s)
- Configure Active Directory GPOs as required by design
- Configure FSLogix standard Profile and Office Data File Container (ODFC), and application masking policies based on the existing design
- Install and configure required environment management agents and Gold Images
- Configure assistance for AV and security agents following recommended industry best practices
- Functionally validate the policies, configurations, and application launch

Optional Activities for Microsoft FS Logix

- Configure integration to existing file server infrastructure
- Configure integration to existing hypervisor infrastructure

Limitations

- For each quantity purchased, deployment is limited to a single production environment at one physical site for a single supported broker
- Up to 5 environment management policies based on the customer-provided Design Document
- Up to 5 Gold Images for management agent deployment
- Microsoft FSLogix standard Profile and ODFC only

Citrix Workspace Environment Manager

- Up to 2 Citrix Workspace Environment Manager (WEM) Brokers

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS
- Omnissa Horizon

- Dizzion Frame

Supported EUC Advanced Environment Management Solutions

- Citrix WEM
- Omnissa Dynamic Environment Manager (DEM)
- Microsoft FSLogix

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Fully supported and functional EUC Broker environment that meets all product requirements
- Customer-provided Design Document detailing the EUC Environment Management Policies to be created
- Completed Pre-Install Questionnaire
- A single, fully patched base OS image with only hypervisor tools installed

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- EUC Broker licensing, including for Citrix DEM, Omnissa WEM
- Microsoft licensing for FSLogix (as needed)

Delivered Artifacts

- As-built Guide

Duration

Typically 3 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- End User Computing (EUC)

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EUC Disaster Recovery and Multisite Integration

Product Code: CNS-EUC-A-SVC-DEP-MSDR

At-a-Glance

Stage: Deploy

End User Computing (EUC) Disaster Recovery (DR) and Multisite Integration accelerate the integration for existing application or desktop virtualization solutions with Nutanix Cloud Infrastructure (NCI) Disaster Recovery solutions, including Asynchronous, NearSync, Synchronous DR, and Metro Availability. This offer is ideal for the Deploy stage of the hybrid multicloud journey for EUC workloads.

Related Services

- EUC Multisite Design Workshop
- EUC Broker Design Workshop

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin by reviewing the customer-provided EUC DR Design Document and requirements. The consultant then deploys and configures one of the supported DR solutions according to Nutanix's recommended practices and the customer-provided Design Document. After the deployment, the consultant creates a customized as-built document and updated configuration workbook to document the final configuration of the cluster(s).

The service includes two configuration options.

Active-Passive Disaster Recovery

For customers who want a DR solution with a DR site taking over from a primary site via a failover process. Active-passive DR is primarily used to support persistent desktop environments.

The Active-Passive Disaster Recovery option includes the following activities:

- Review and validate EUC Disaster Recovery Design Document
- Review requirements, constraints, risks, assumptions
- Review recovery point objective (RPO) and recovery time objective (RTO) requirements
- Review inventory of virtual machines (VMs) to be protected
- Review IP address remapping requirements
- Configure Nutanix DR solution between 2 sites
    - Configure the NCI cluster at the target site
    - Configure Async or NearSync protection domains (PDs)
    - Configure Prism Central availability zones
    - Configure Nutanix DR protection policies
    - Configure Nutanix DR recovery plans

- Review protection of Microsoft SQL Server databases
- Configure protection of EUC control plane VMs
- Protect Citrix Virtual Apps & Desktops (CVAD) Delivery Controllers, StoreFront servers, Workspace Environment Management (WEM) brokers, and Enterprise Layer Manager (ELM)
- Protect Omnissa Horizon connection servers, composer servers, app volume managers, and Unified Access Gateway (UAG) appliances
- Protect the Dizzion Frame utility server
- Configure protection for existing EUC template VMs
- Configure replication for NUS Files
- Protection configured by PD-based Async/Smart DR
- Validate failover plan for the control plane, user desktop, and remote desktop session host (RDSH) VMs
- Test failover of control plane, desktop, and RDSH VMs
- Test fail-back of the control plane, desktop, and RDSH VMs
- Verify existing SQL Server infrastructure to support control plane infrastructure

Optional Activities for Active-Passive DR

- Assist customer in configuring SQL mirroring, always-on availability group (AAG), or basic AAG (BAG)
- Protect NVIDIA License System

Active-Active Disaster Recovery

For customers who want to deploy multisite architectures with each site simultaneously supporting a subset of the users. Active-active DR is primarily used to support large-scale, non-persistent desktop environments.

The Active-Active Disaster Recovery option includes the following activities:

- Review and validate EUC multisite design
- Review requirements, constraints, risks, assumptions
- Review cross-site user failover requirements
- Review RPO and RTO requirements for user data
- Review inventory of VMs to be replicated
- Configure Nutanix DR solution between 2 sites
  - Configure disaster recovery settings on the NCI cluster at the target site
  - Configure Prism Central availability zones
  - Configure Async or NearSync PDs
  - Configure Nutanix DR protection policies
  - Configure Nutanix DR recovery plans
- Configure replication for existing EUC Gold Image

- Configure replication for NUS Files using either PD-based Async DR, Smart DR, or PeerGFS, if required by design
- Review replication of Microsoft SQL Server databases, if required by design
- Configure Omnissa Horizon cloud-pod architecture and global entitlements
  - Configure App Volumes volume groups to support AppStack replication, if required by the design
- Configure Citrix Virtual Apps and Desktops StoreFront aggregation
- Review the configuration of global server load balancing (GSLB)
- Assist customer in configuring NetScaler features, as required by existing design
- Validate site failover plan for desktop users
- Test failover of users from one site to the other
- Failover of users to a different non-persistent desktop
- Test failover for NUS Files between sites
- Test failover for SQL Server databases, if required

Optional Activities for Active-Active DR

- Protect NVIDIA license system
- Assist customer in configuring Microsoft SQL mirroring, AAG, or BAG

Limitations

- For each quantity purchased, EUC DR Multisite integration is limited to one source physical site or public cloud region and one target physical site or public cloud region.

  Note: Larger environments require a custom statement of work (SOW)

- EUC-related workloads only
- Custom scripting to support failover or migration of persistent desktops between control plane instances is not in scope but may be accommodated via a custom SOW.

Active/Active Disaster Recovery

- Dizzion Frame is not supported

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS
- Omnissa Horizon
- Dizzion Frame (Active/Passive DR only)

Prerequisites

- Fully supported and functional on-premises NCI or Nutanix Cloud Clusters (NC2) source cluster and on-premises NCI or NC2 target cluster that meets all product requirements for the selected DR solution.

  Note: For information on the requirements for configuring Nutanix Disaster Recovery, see Disaster Recovery Requirements in the *Nutanix Disaster Recovery Guide* on the Nutanix Support Portal.

- Customer-provided Design Document detailing the EUC multisite design
- Completed Pre-Install Questionnaire

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- EUC Broker licensing
- Microsoft SQL Server licensing (if required)
- Peer Software PeerGFS licensing (if required)

Delivered Artifacts

- As-built Guide

Duration

Typically 8 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- End User Computing (EUC)

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EUC Gold Image Creation

Product Code: CNS-EUC-A-SVC-IMG-STD

At-a-Glance

Stage: Deploy

End User Computing (EUC) Gold Image Creation accelerates the creation of Gold Images for consumption by an application or desktop virtualization solution with expertise from highly skilled consultants. EUC teams have a choice of creating Gold Images for a variety of supported EUC Brokers. This offer is ideal for the Deploy stage of the hybrid multicloud journey for EUC workloads.

Related Services

- EUC Broker Deployment

Service Scope

Highly skilled consultants with solid domain expertise and rich experience create the Gold Image according to Nutanix recommended practices and the customer-provided Design Document and use case documentation for consumption by an application or desktop virtualization solution.

The service includes the following activities:

- Configure the base Gold Image
- Install supported base Windows Server or desktop operating system (OS)
- Install hypervisor guest agents and drivers
- Install applications into the image. Applications may include anti-virus and security agents
- Configure anti-virus and security agents according to recommended practices
- Apply recommended OS and application optimizations
- Install EUC vendor management agent(s) per existing design
- Configure a Citrix machine catalog, VMware desktop pool, or Frame account within the broker infrastructure based on the new image
- Configure Active Directory Group Policy Objects (GPO) and standard profile configuration specific to the use case for the Gold Image
    - Configure policies for Citrix Profile Management
    - Configure policies for Microsoft FSLogix Profile and Office Data File Containers (ODFC)
    - Configure policies for Omnissa DEM
    - Configure policies for Folder Redirection
    - Enable Frame Enterprise Profiles on the account
- Validate the image and application launch functionality

Optional Activities

- Install NVIDIA GRID drivers

Limitations

- For each quantity purchased, deployment is limited to 1 Gold Image
- Limited to up to 5 applications
- Citrix Workplace Environment Management (WEM) agent configuration not included
- Omnissa Dynamic Environment Manager (DEM) / Persona agent configuration not included

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS
- Omnissa Horizon
- Dizzion Frame

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Fully supported and functional EUC Broker environment that meets all product requirements
- Customer-provided Design Document
- Completed Software and Gold Image Questionnaire

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- EUC Broker licensing
- Software licenses for Gold Image

Delivered Artifacts

- Gold image

Duration

Typically 2 days per Gold Image

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- End User Computing (EUC)

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EUC Workload Expansion

Product Code: CNS-EUC-A-SVC-WKLD-EXP

At-a-Glance

Stage: Deploy

The End User Computing (EUC) Workload Expansion accelerates the expansion of an EUC workload(s) by integrating new on-premises Nutanix Cloud Infrastructure (NCI) or Nutanix Cloud Clusters (NC2) clusters into existing supported EUC broker infrastructure to facilitate scaling capacity. This offer is ideal for the Deploy stage of the hybrid multicloud journey for EUC workloads.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience integrate existing EUC Broker infrastructure with newly deployed on-premises NCI or NC2 cluster and migrate an existing Gold Image to create new workloads.

The service includes the following activities:

- Copy a pre-existing Gold Image to the newly deployed on-premises NCI or NC2 cluster, performing hypervisor conversion if required
- Connect the existing broker infrastructure to the target on-premises NCI or NC2 Cluster, including AHV plug-in deployment if required
- Provision one desktop pool or machine catalog and delivery group using the copied Gold Image on the target NCI or NC2 cluster
- Test application/desktop launch for newly provisioned workloads

Limitations

- For each quantity purchased, deployment is limited to a single on-premises NCI cluster or NC2 cluster
- Limited to:
  - 1 Gold Image with source and destination environments connected by a reliable, high-bandwidth connection for migration
  - 1 Machine Catalog/Delivery Group and Desktop Pool created/amended
  - Up to 100 workloads created on the target environment
- New workloads must run in the same Active Directory domain as the existing workloads
- Excludes Gold Image application compatibility testing and any remediation from in-guest hypervisor conversion
- Excludes creation or updates to customer-provided Design Documentation

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS

- Omnissa Horizon

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) cluster that meets all product requirements and does not run any other workloads

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Fully supported and functional EUC Broker environment that meets all product requirements
- Customer-provided Design Document
- Completed Pre-Install Questionnaire
- An existing Gold Image using a supported guest OS with no known issues

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- EUC Broker licensing
- Software licenses for Gold Image

Delivered Artifacts

- As-built Guide

Duration

Typically 2 days, delivered virtually

Note: In-person delivery may incur additional charges.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- End User Computing (EUC)

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EUC Migration Workshop

Product Code: CNS-EUC-A-WRK-MIG

At-a-Glance

Stage: Migrate

The End User Computing (EUC) Migration Workshop offers EUC teams in-depth and practical guidance to create a comprehensive migration plan for migrating existing EUC applications and desktop virtualization environments to the Nutanix Cloud Platform (NCP). This offer is ideal for the Migrate state of a hybrid multicloud journey.

Related Services

- EUC Workload and Gold Image Migration
- EUC User Data Migration

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with a discovery session that collects migration requirements, dependencies, and maintenance windows. The consultant then conducts a workshop based on the discussions during the discovery session and creates a migration plan.

The service includes the following activities:

- Conduct an EUC migration discovery session:
  - Gather and document migration requirements, constraints, assumptions, dependencies, and decisions for the migration effort
  - Assess the current state of systems and users to be migrated
- Conduct EUC migration workshop:
  - Review options for migrating existing
    - EUC broker infrastructure
    - Virtual and physical desktops
    - Gold Images
    - User profiles and data
  - Assess network configuration impacts and requirements
  - Develop a migration plan and process, rollback plans, and migration wave(s)
  - Develop a post-migration validation plan

Limitations

- For each quantity purchased, migration planning is limited to 1 existing EUC environment in 1 physical site. Larger environments can be accommodated via a custom statement of work (SOW)

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS
- Omnissa Horizon
- Dizzion Frame

Prerequisites

- None

Required Product Licenses

- None

Delivered Artifacts

- Migration Workbook
- Migration Plan
- Migration Test Plan

> **Note:** This offer is available with several documentation options, defined here https://www.nutanix.com/support-services/consulting-services/documentation-tiers

Duration

Typically 4 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- End User Computing (EUC)

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EUC Workload and Gold Image Migration

Product Code: CNS-EUC-A-SVC-MIG-V2V

At-a-Glance

Stage: Migrate

End User Computing (EUC) Workload and Gold Image Migration offers IT teams strong domain expertise to migrate desktop or remote desktop service host (RDSH) VM workloads to the Nutanix Cloud Platform per the customer-provided migration plan. Workloads include both persistent virtual desktops and existing Gold Images. This offer is ideal for the Migrate stage of a hybrid multicloud journey.

Related Services

- EUC Migration Workshop
- EUC User Data Migration

Service Scope

Highly skilled consultants with strong domain expertise and rich experience begin with validating the customer-provided migration plan to ensure the migration requirements EUC workloads and the post-migration validation plan are accurate. The consultant then migrates the EUC workloads according to the migration plan.

The service includes the following activities:

- Validate EUC workload and Gold Image migration requirements and validation plan
- Deploy migration tools as required according to the migration plan
- Configure Active Directory and storage infrastructure settings as required
- Migrate the EUC workloads and Gold Images based on the migration plan
- Integrate migrated workloads into the target EUC broker infrastructure
- Monitor the migration process via periodic touchpoints
- Remediate identified migration issues
- Execute the existing post-migration validation plan

Limitations

- Excludes migration planning
- For each pack purchased, migration is limited to up to 5 VMs or up to 2.5TB of total data
  - Migration must occur as a single contiguous migration wave
- Larger environments can be accommodated via a custom statement of work (SOW)

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS
- Omnissa Horizon
- Dizzion Frame

Prerequisites

- Customer-provided EUC migration plan including VMs targeted for migration
- Fully supported and functioning source environment hosting EUC VMs
- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Fully supported and functional EUC Broker environment that meets all product requirements
- Operating systems are supported by NCI, EUC Broker, and the migration tool

  Note: For information on the supported guest operating systems, see *Nutanix Compatibility and Interoperability Matrix* on the Nutanix Support Portal.

- EUC and application subject matter experts (SME) available during the migration

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- EUC Broker licensing
- Migration tools licensing

Delivered Artifacts

- Migration Procedure
- Migration Summary

Duration

Typically 2 days per 5 VMs or up to 2.5TB of total data

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- End User Computing (EUC)

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EUC User Data Migration

Product Code: CNS-EUC-A-SVC-MIG-USR

At-a-Glance

Stage: Migrate

End User Computing (EUC) User Data Migration offers IT teams strong domain expertise to migrate EUC users and their data to the Nutanix Cloud Platform per the customer-provided migration plan. This offer is ideal for the Migrate stage of a hybrid multicloud journey.

Related Services

- EUC Migration Workshop
- EUC Workload and Gold Image Migration

Service Scope

Highly skilled consultants with strong domain expertise and rich experience begin with validating the customer-provided migration plan to ensure the migration requirements EUC user data and the post-migration validation plan are accurate. According to the migration plan, the consultant then migrates the users and their associated data from existing physical or virtual desktop environments.

The service includes the following activities:

- Validate EUC user data migration requirements and validation plan
- Deploy migration tools as required according to the migration plan
- Configure Active Directory and storage infrastructure settings as required
- Migrate the EUC User data based on the Migration plan
- Monitor the migration process via periodic touchpoints
- Remediate identified migration issues
- Execute the existing post-migration validation plan

Limitations

- Excludes migration planning
- For each pack purchased, migration is limited to 5 individual users with up to 50 GB of data per user or a configuration of up to 5 Group Policy Objects (GPO-based) policies to support automated migration
    - Migration must occur as a single contiguous migration wave
- Larger environments can be accommodated via a custom statement of work (SOW)

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS
- Omnissa Horizon
- Dizzion Frame

Prerequisites

- Customer-provided EUC migration plan including VMs targeted for migration
- Fully supported and functioning source environment hosting EUC user data
- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Fully supported and functional EUC Broker environment that meets all product requirements
- Operating systems are supported by NCI, EUC Broker, and the migration tool

  Note: For information on the supported guest operating systems, see *Nutanix Compatibility and Interoperability Matrix* on the Nutanix Support Portal.

- EUC and application subject matter experts (SME) available during the migration

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- EUC Broker licensing
- Migration tools licensing

Delivered Artifacts

- Migration Procedure
- Migration Summary

Duration

Typically, 2 days per 5-policy pack or 5 individual users (of up to 50GB)

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- End User Computing (EUC)

Terms and Conditions

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EUC FitCheck

Product Code: CNS-EUC-A-SVC-FIT

At-a-Glance

Stage: Optimize

The End User Computing (EUC) FitCheck service provides in-depth and practical guidance to identify potential performance issues, misconfigurations, and recommended practices for EUC workloads running on Nutanix Cloud Infrastructure (NCI) clusters. By leveraging the expertise gained from the FitCheck, EUC teams can ensure an optimized and performant EUC environment.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience evaluate the EUC solution and Nutanix Cloud Platform (NCP) together, ensuring adherence to Nutanix and industry-recommended best practices. After the assessment, the consultant develops a customized Nutanix findings document that includes the current configuration of the on-premises NCI cluster together with highlighted observations made during the engagement.

Starter Edition

For customers requiring an entry-level assessment of the EUC environment on Nutanix.

The service includes the following activities:

- Collect data and conduct assessment of Nutanix AOS and hypervisor cluster
- Review layer 2 virtual networking
- Review hypervisor vSwitch configuration
- Review on-premises NCI cluster deployment and configuration, including firmware and AOS
- Review hypervisor cluster configuration on the deployed NCI clusters
    - For VMware vSphere clusters, review existing vCenter or VCSA configuration
    - For Microsoft Hyper-V clusters, review existing System Center Virtual Machine Manager configuration
- Review existing operational procedures
- Generate as-built documentation for the current NCI cluster configuration
- Collect data and assess the EUC infrastructure for a single physical site/pod
- Review Layer 2 virtual networking of the Nutanix and hypervisor Clusters
- Review hypervisor cluster configuration on the deployed NCI Clusters according to Nutanix EUC recommended practices
- Review Gold Image optimizations for Gold Image(s)
- Review Citrix UPM, Omnissa Dynamic Environment Manager (DEM), FSLogix Profile and Office Data Container (ODFC) Containers, or Dizzion Frame Enterprise user-profiles and folder redirection configurations
- Review existing operational procedures for the EUC environment

- Document observed virtual machine (VM) resource usage based upon Prism and vCenter reported statistics
- Review configuration and usage of Nutanix Unified Storage (NUS) Files for the EUC use case only

Optional Activities for Starter Edition

- Review existing Prism Central deployment and integration

Pro Edition

For customers with a more comprehensive EUC infrastructure or needing deeper insights and tuning. This option appropriately assesses EUC performance and scalability, including Disaster Recovery (DR) and active-active EUC environments.

The service includes the following activities:

- Everything included in the Starter Edition
- Collect data and conduct an assessment of EUC infrastructure for multiple sites/pods
- Review data protection configuration for infrastructure
- Review configuration and usage of Nutanix Asynchronous, NearSync, Synchronous DR, and Metro Availability DR and EUC DR plans
- Review active-active EUC infrastructure and configuration
  - NetScaler (global server load balancers (GSLB))
  - Storefront replication
- Deploy Liquidware Stratusphere UX
- Assist in deploying connector ID key agent on the desktops
- Provide a detailed assessment of VM, application, and user resource usage
- Evaluate login time behaviors
- Review Gold Image optimizations for Gold Image(s)

Optional Activities for Pro Edition

- Deploy hub appliance

Ultimate Edition

For customers with sophisticated EUC infrastructures that leverage advanced profile and application management, multisite EUC environments, and advanced availability and DR functionality.

The service includes the following activities:

- Everything included in the Pro Edition
  - Review configuration of advanced profile managers (Citrix Workplace Environment Management (WEM), Omnissa DEM)
- Review configuration of user and application layering (Citrix App Layering, Omnissa App Volumes, Liquidware FlexApp, and Microsoft FSLogix with Cloud Cache)

Limitations

- For each quantity purchased, FitCheck is limited to a single physical site with a maximum of 128 nodes distributed in up to 4 on-premises NCI clusters of a single hypervisor-supported platform.
- Each FitCheck covers a single EUC broker deployment
- Excludes executing recommended changes: Executing recommended changes is available as a custom statement of work (SOW).

Starter Edition

- Up to 2 gold image templates
- Limited to FSLogix Profile and Office 365 containers

Pro and Ultimate Edition

- Up to 30 days of data collection
- Up to 500 users / 500 desktops
- Up to 5 Gold Images
- Limited to NetScaler GSLB active-active configuration
- Limited to storefront multisite aggregation replication

Supported EUC Brokers

- Citrix Virtual Apps and Desktops
- Citrix DaaS
- Omnissa Horizon
- Dizzion Frame

Prerequisites

- Fully supported and functional on-premises NCI cluster that meets all product requirements

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- EUC Broker licensing
- Liquidware Stratusphere UX licensing is supplied, but it is limited to the specific scope defined above

  Note: Additional agents or data collection period requires an additional license purchase

Delivered Artifacts

- FitCheck Finding Presentation (optional)
- FitCheck Report

Duration

Starter	Pro	Ultimate
Typically 3-5 days	Typically 6-8 days + data collection	Typically 7-10 days + data collection

Related Products

- Nutanix Cloud Infrastructure (NCI)
- End User Computing (EUC)

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Flexible Credits

NUTANIX

Flexible Credits

Product Code: FLEX-CST-CR, FLEX-STG-CR

At-a-Glance

Stage: All

Nutanix Flex Credits provide a credits program for purchasing Nutanix Professional Services. This program provides the flexibility to utilize budget cycles to pre-buy credits for future use of Nutanix Professional Services and training via redemption of credits. Within the terms of validity of the Flex Credits, use the credits for the portfolio of Nutanix Professional Services, including Consulting, Resident, Technical Account Manager, and Education.

Service Scope

Purchase Flex Credits globally and apply them to the following types of Nutanix Professional Services:

- Pre-defined Consulting
- Custom Consulting
- Residents
- Technical Account Managers
- Education classes, including certification
- Any future services released by Nutanix Professional Services within the redemption window

Purchase credits, valued at $100 USD per credit, from Nutanix authorized resellers or distributors.

Flex Credit Redemption

Please send a request to flexcredits@nutanix.com and include contact information, business, reason for the request, and purchase order number, if known.

Flex Credit Terms and Conditions

- Flex Credits expire 12 months from the purchase date and are non-refundable.
- Flex Credits can be applied to Nutanix Professional Services available at the time of redemption
- The decision on specific Professional Services is not required at time of Flex Credits purchase
- Partial Flex Credits balances can be pooled toward a single redemption

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