Enterprise Clouds for the Manufacturing Industry

Nutanix Enterprise Cloud ensures production system reliability, accelerates app performance for the datacenter and plant floor, and simplifies manufacturing IT operations, giving IT the freedom to invent.

No matter what type of manufacturing you're involved in—heavy industry, consumer goods, transportation and logistics, life sciences—technology is changing consumer expectations in a way that significantly affects your business operations. While your teams are working hard to manage IT systems, integrate analytics with enterprise applications, and support dev/test requests, they are unable to undertake new initiatives focused on customer engagement and business growth. In an increasingly competitive global market, IT needs the freedom to invent in order to become a strategic partner to the business.

Nutanix enables manufacturers to adapt to changing consumer demands and gain competitive advantage by transforming datacenter, warehouse and supply chain operations. The Nutanix Enterprise Cloud leverages the industry's most popular hyperconverged technology with comprehensive operations management and an automation and orchestration framework to deliver any application with one-click simplicity. Nutanix can help you simplify and accelerate operations, speed the delivery of new services, tackle big data analytics, and streamline your database and VDI deployments.

SIMPLIFY GLOBAL IT OPERATIONS

Nutanix Enterprise Cloud makes IT infrastructure invisible by converging servers, storage, data protection, virtualization, and networking with one-click operations, full application automation, and multi-cloud management. The result is a solution that isn't just suited for your datacenter, it satisfies infrastructure requirements across your operations, enabling flexible virtualized compute, storage, and data analytics capabilities everywhere they're needed. With its compact footprint and simplified remote management, Nutanix is the perfect platform for your production facilities and distribution centers.

All infrastructure hardware and software is managed through Nutanix Prism, a single interface for managing servers, storage, data protection, and virtualization that streamlines common IT work-flows. Simple and intuitive one-click management reduces the administrative burden and the potential for operator error while eliminating the need for planned downtime. Any task that can be performed via Prism can also be automated using REST APIs or PowerShell scripts.
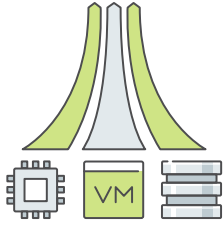
STREAMLINE APPLICATION MANAGEMENT

Manufacturing relies on a set of mission-critical business applications, including ERP, CRM, SCM, transportation and logistics, financials, HR, and more. These applications are typically deployed on siloes of dedicated infrastructure, adding cost and complexity to your operations.
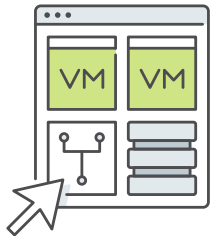
With Nutanix Enterprise Cloud, you can run these applications on the same validated infrastructure with no negative performance or availability impact, enabling greater consolidation, reducing complexity, and substantially reducing total cost of ownership (TCO).

"You have a single point of management—there is no storage management, fiber management, node management. That's all just gone away... The Nutanix Enterprise Cloud gives us the freedom of growth... It's just blown away all those performance issues. We have no downtime anymore, and we minimized the IT risk for our business case."

– Johannes Michel,
IT Architect, GOB Systems
(Integration Partner, Fond of Bags)

NUTANIX
YOUR ENTERPRISE CLOUD

Full-stack Infrastructure for
Any Application, Any Cloud

One-click Operations
for Cloud-like Automation

Pay-as-you-grow
Consumption for Lower TCO

Application Mobility that
Eliminates Technology Lock-in

Ensure Performance and Availability

Nutanix Enterprise Cloud delivers the high performance necessary for intensive database applications without the complexity of dedicated infrastructure. A compact cluster ideally suited for space constrained sites is capable of handling the performance needs of a demanding database environment, delivering low I/O latency results with excellent application responsiveness.

It also ensures high availability and reliability through advanced capabilities. A self-healing architecture restores full resiliency without operator intervention, and one-click non-disruptive upgrades eliminate planned downtime.
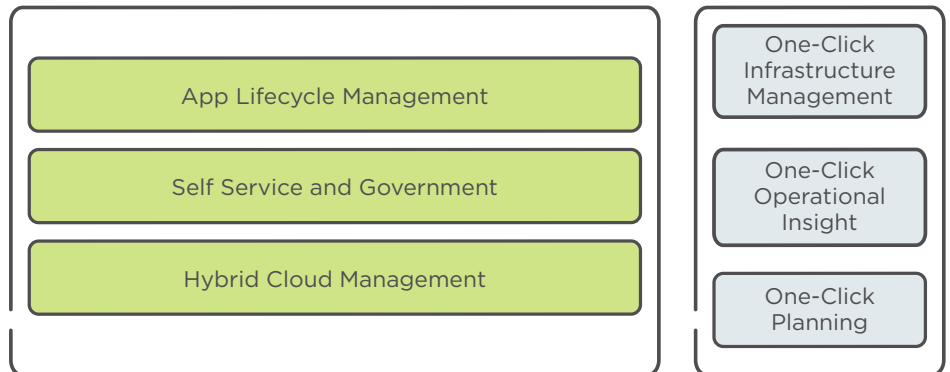
Improve Time to Market

With Nutanix, infrastructure fades into the background, so your team can focus on deploying and managing the applications and digital services that will move your business into the future.

Nutanix Calm is a key part of this evolution. Calm accelerates deployment and simplifies management of custom applications by incorporating all elements of each application into an easy-to-use blueprint, making the deployment and lifecycle management of applications automated and repeatable across both private and public cloud environments.

Prism

Calm

App Lifecycle Management

Self Service and Government

Hybrid Cloud Management

One-Click Infrastructure Management

One-Click Operational Insight

One-Click Planning

You can deploy a new application quickly in multiple facilities and be certain that everything is configured correctly. And, you can use the same blueprints to deploy instances of your applications in public clouds such as Azure, Google Cloud Platform, or AWS.

ENABLE BIG DATA ANALYTICS

Many manufacturers struggle with the ability to fully leverage all their data. Deploying and managing big data analytics often poses significant challenges for already over-burdened IT teams. To keep up with the onslaught of data from new Internet of Things (IoT) sensors, you may need to deploy and manage infrastructure to perform analytics close to the data—in production, distribution, and other facilities. That infrastructure must scale with the growth of data and provide the flexibility to switch workloads easily.

Nutanix Enterprise Cloud:
- Virtualizes big data analytics, greatly improving scalability and flexibility
- Reduces upgrade complexity
- Improves resiliency

With Nutanix Enterprise Cloud, you no longer have to deploy separate bare-metal servers. Your analytics can run on the same shared infrastructure as other applications, eliminating silos, simplifying infrastructure management, and reducing costs.

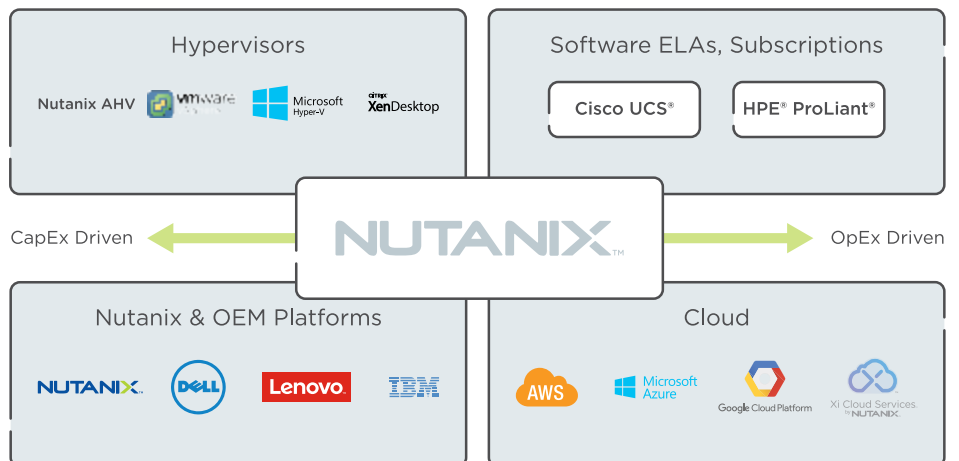## TAKE CONTROL OF VIRTUAL DESKTOP INFRASTRUCTURE

Manufacturers have discovered that virtual desktop infrastructure (VDI) and application virtualization are a perfect fit. With VDI, your users can access their desktops and information from anywhere, even while traveling, while data remains secure inside your datacenter. However, IT teams have discovered that VDI can often be more challenging to manage than server virtualization. Demands can vary significantly depending upon usage patterns, the time of day, and the applications being used. Boot storms, anti-virus scans, and patch updates can put sudden loads on the infrastructure and slow down perfor-mance for end users.

Nutanix Enterprise Cloud is the ideal platform to support your VDI needs, making it much easier to deploy and manage, and allowing you to:

- Deliver a great experience for all user types

- Add contingent workers as needed, and remove access immediately when contracts end for security

- Start small and scale to 10,000's of users without re-architecting

- Deploy validated end-to-end solutions 8x faster

- Slash TCO by as much as 60% and pay as you grow

- Reduce both planned and unplanned downtime

Gain Freedom of Choice
As a fully software-defined solution, Nutanix Enterprise Cloud avoids many of the limitations imposed by competing solutions that rely on specific hardware features and constrain your IT decisions.

> "The Nutanix Enterprise Cloud Platform performs intelligent self-monitoring; identifying and fixing problems itself without any downtime or user intervention, slashing the time spent managing and monitoring the infrastructure by a massive 98%."
>
> – Hasan Ali, Deputy IT Manager, Polycab Wires

Hypervisors	Software ELAs, Subscriptions
Nutanix AHV · vmware · Microsoft Hyper-V · citrix XenDesktop	Cisco UCS® · HPE® ProLiant®

CapEx Driven ← **NUTANIX**™ → OpEx Driven

Nutanix & OEM Platforms	Cloud
NUTANIX · DELL · Lenovo · IBM	AWS · Microsoft Azure · Google Cloud Platform · Xi Cloud Services by NUTANIX

"The idea was to just run VDI on Nutanix, but because we saw such perfect performance we started migrating other workloads. We're now running our entire production on Nutanix."

"It used to take hours, even days to provision servers, now it takes minutes. I joke with my colleagues that it takes us longer to actually open the boxes than it does to deploy servers these days."

– Kawa Farid, Director, Infrastructure & Operations, Hyundai Australia

Extensive Hardware Options

Nutanix Enterprise Cloud OS runs on multiple platforms, including DellEMC XC Series, Lenovo HX, IBM Power, Cisco UCS, and HPE Proliant—in addition to Nutanix-branded NX hyperconverged appliances. You can take advantage of the benefits of Nutanix Enterprise Cloud without sacrificing investments in existing hardware platforms.

Support for All Popular Hypervisors

While other solutions lock you into just one or two hypervisor choices, Nutanix Enterprise Cloud provides you freedom of choice in hypervisors. In addition to providing an integrated native hypervisor, Nutanix also supports VMware vSphere, Microsoft Hyper-V, and Citrix XenServer.

Nutanix's native hypervisor, AHV, is included with your Nutanix purchase. AHV eliminates hypervisor licensing costs while delivering all the functionality you expect and integrating even more closely with your Nutanix environment.

READY TO TRANSFORM?

Nutanix is ready to help you transform your datacenter, your IT operations, and your business, giving you the freedom to invent. To learn more, contact Nutanix at info@nutanix.com, follow us on Twitter @nutanix, or visit nutanix.com/try to try it free.

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07/18