Nutanix Database Management & Automation (NDMA)

NUTANIX UNIVERSITY

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AUDIENCE

- Database administrators who manage Nutanix clusters and want a detailed deep dive into database administration using NDB
- Anyone pursuing the Nutanix Certified Professional - Database Automation (NCP-DB) certification

SOFTWARE VERSIONS

- AOS 6.5.5
- Era 2.5.1.1

DESCRIPTION

This course teaches you the skills needed to install, configure, and operate Nutanix Database Service (NDB, formerly known as Nutanix Era) for the purpose of managing databases.

NOTE: The installation and management of databases themselves is not part of this course.

In this course, you will explore a number of subjects including:

- The what, the how, the why, and the benefits of database-as-a-service (DBaaS)
- Important NDB terms and concepts: like copy data management, time machine, provisioning profiles, and data access management
- Implementing role-based access control (RBAC), including working with built-in and custom roles, and managing users and groups
- Adding multiple clusters to NDB, working with Nutanix Guest Tools, and registering a Nutanix cluster with NDB
- Monitoring and investigating issues with NDB, including alert policies, notifications, and log collection
- Operations involved in protecting and restoring databases, including creating snapshots, cloning databases, log catch-up operations, refreshing clones, and restoring source databases

PRE-REQUISITES

This advanced course requires you to possess a basic Nutanix system administration skill set which includes:

- Familiarity with traditional virtualization architectures and Nutanix cloud infrastructure
- Hands-on experience with the Prism interface
- An understanding of Nutanix core concepts and definitions, which can be found here

These skills can be acquired by attending one of our basic admin courses (Enterprise Cloud Administration) or through on-thejob experience by working on a Nutanix system for at least 6 months.

NUTANIX

COURSE DETAILS

Delivery Methods:

Instructor-Led

- 2 Days, virtual
- Private classes available
- Includes hands-on labs
- Includes a free NCP-DB exam voucher
- *Contact us for pricing and training options at NutanixTraining@nutanix.com*

Self-Paced Online

- 6-8 hours
- Demonstrations and interactive simulations of labs
- Free

COURSE OUTLINE

1: Introduction to Database Automation

- Understanding DBaaS
- Understanding NDB Terminology and Concepts
- The Nutanix Solution for DBaaS

2: Configuring and Operating NDB

- Understanding the NDB Workflow
- Installing and Configuring NDB
- Exploring the NDB Dashboard
- Creating Profiles
- Registering an Existing Database
- Provisioning a New Database
- Patching, Upgrading, and Scaling Databases
- Upgrading NDB
- NDB High Availability

    Hands-on Labs:
    - Deploying NDB
    - Configuring an NDB Instance
    - Getting Started with a PostgreSQL Database
    - Upgrading NDB
    - Working with NDB Profiles
    - Registering Existing Databases
    - Provisioning, Patching, and Removing Databases

3. Administering Nutanix Era

- Implementing RBAC and Managing Users
- Adding Nutanix Clusters to NDB
- Working with Maintenance Windows
- Using Tags for Database Inventory Management
- Working with Alerts
- Investigating Issues with NDB

    Hands-on Labs:
    - Implementing RBAC and Managing Users
    - Using Tags for Database Inventory Management
    - Working with Alerts
    - Generating and Downloading a Diagnostics Bundle
    - Enabling a NDB Multi-Cluster
    - Provisioning a Database to a New Cluster
    - Provisioning a Multi-Cluster HA Database

4: Protecting and Restoring Databases (Time Machine Operations)

- Understanding Time Machine
- Managing SLAs Schedules
- Preparing for Snapshot Creation, Replication, and Deletion
- Cloning Databases
- Database Log Management
- Refreshing and Removing Clones
- Restoring Source Databases

   Hands-on Labs:

   - Creating SLAs
   - Cloning Databases
   - Creating and Replicating Snapshots
   - Restoring a Database from a Snapshot

RELATED CERTIFICATION

Nutanix Certified Professional - Database Automation (NCP-DB)

The NCP-DB certification measures your ability to deploy, administers optimizes and troubleshoot database workloads using Nutanix Database Service (NDB). Successful candidates have approximately 1-2 years of database management experience, while having at least 6 months of NDB or Nutanix Era experience.

Please note: The course material is intended to cover 70-80% of the knowledge on the exam, with the rest of your exam prep coming from independent study and/or experience.

TERMS AND CONDITIONS

- Customer must purchase training seats in advance of scheduling course dates

- Customer may not cancel purchased training seats and all amounts paid are non-refundable

- Customer may reschedule courses with no less than 10 business days written notice to Nutanix. Rescheduling fees may apply

- Customer may substitute a student with no less than 5 business days written notice to Nutanix. Rescheduling fees do not apply to substitutions

- Training seats must be consumed within 12 months of purchase, failure to utilize the training seats within the 12 months of purchase shall result in forfeiture of all fees paid for such seats. Extensions may be available on a case by case basis

- Most of our Authorized Training Partners (ATPs) have a 10-business-day cancellation and/or reschedule policy. If customer cancels or reschedules within those 10 business days, fees may apply up to the full price of the seat

- Nutanix reserves the right to cancel any scheduled course due to minimum enrollment not being achieved, instructor illness, or other events outside of its control

- Cancellation notices will be sent to enrolled students by email with rescheduling information and alternative training options

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