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## Nutanix Database Management and Automations

Duration: 2 Days    Course Code: NDMA

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### Overview:

This course teaches you the skills needed to install, configure, and operate Nutanix Database Service (NDB).

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

Updated 03/2026

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### Target 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
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### Objectives:

- In this course, you will explore a number of subjects including:
    - The what, how, why, and 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, using alert policies and notifications, and collecting logs
  - Operations involved in protecting and restoring databases, including creating snapshots, cloning databases, log catch-up operations, refreshing clones, and restoring source databases
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### Prerequisites:

- 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
- These skills can be acquired by attending our Enterprise Cloud Administration (ECA) course, or through on-the-job experience by working on a Nutanix system for at least 6 months.
- GK9915 - Nutanix Enterprise Cloud Platform Administration (ECA) + Exam Voucher

### Testing and Certification

- Nutanix Certified Professional - Database Automation (NCP-DB)
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## Content:

### 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

#### Hands-on Labs:

- Deploying NDB
- Configuring an NDB Instance
- Getting Started with a PostgreSQL Database
- Adjusting UI Timeout and Upgrading NDB
- Working with NDB Profiles
- Registering Existing Databases
- Provisioning, Patching, and Removing Databases
- Implementing RBAC and Managing Users
- Using Tags for Database Inventory Management
- Working with Alerts
- Generating and Downloading a Diagnostics Bundle
- Enabling NDB Multi-Cluster
- Provisioning a Database to a New Cluster
- Provisioning a HA Database
- Creating SLAs
- Cloning Databases
- Creating and Replicating Snapshots
- Restoring a Database from a Snapshot

### 3: Administering and Monitoring NDB

- Implementing RBAC and Managing Users
- Managing Multiple Clusters with NDB
- Working with Maintenance Windows
- NDB High Availability
- Using Tags for Database Inventory Management
- Working with Alerts
- Investigating Issues with NDB

#### Hands-on Labs:

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### 4: Protecting and Restoring Databases

- 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:

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## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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