



# Nutanix Database Management & Automation (NDMA)

## COURSE OVERVIEW

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

## WHO WILL BENEFIT FROM THIS COURSE?

- 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

## 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, which can be found here.

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



## COURSE OUTLINE

### Introduction to Database Automation

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

### 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

### Administering and Monitoring NDB

- 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 NDB Multi-Cluster
- Provisioning a Database to a New Cluster
- Provisioning a Multi-Cluster HA Database

### 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

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