

# NUTANIX ENTERPRISE CLOUD ADMINISTRATION [V6.10]

Course Code: 9915

Extend, deepen, and broaden your knowledge as you grow in your career as a Nutanix administrator.

If you already have experience with administering a Nutanix environment, this course will extend, deepen, and broaden your knowledge as you grow in your career as a Nutanix administrator.

In Nutanix Enterprise Cloud Administration (ECA), you'll focus on Prism Central. This course provides a comprehensive look at Nutanix centralized management capabilities and allows you to explore the wide variety of features that are available in this web console.

## What You'll Learn

ECA covers four key areas:

1. Core Nutanix Concepts: Gain a deep understanding of hyperconverged infrastructure (HCI) and the various Nutanix cloud solution packages. Learn the basics of cluster configuration and the components for creating and managing VMs – namely, networks and images.
2. VM Management: Explore how to create and manage VMs, work with projects, protect VMs and their data, apply storage optimization features at the VM level, and migrate your workloads to a Nutanix environment.
3. Monitoring and Troubleshooting: Learn about alerts, events, log collection, reporting, and how to use various features in Prism Central to identify, analyze and remediate performance issues.
4. Maintenance and Upgrades: Learn how to set up a cluster for maintenance activities – such as starting and stopping nodes and clusters – and how to upgrade installed software and firmware with just a few clicks. 4. Learn how to set up a cluster for maintenance activities – such as starting and stopping nodes and clusters – and how to manage and upgrade licenses and installed software with just a few clicks.

## Who Needs to Attend

- Administrators, engineers, and others who manage Nutanix clusters in the datacenter

- Managers and technical staff seeking information to drive purchase decisions
- Anyone seeking the Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI) certification

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VIRTUAL CLASSROOM LIVE

\$4,500 USD

4 Day

## Virtual Classroom Live Outline

### **Module 1: Getting Started with a Nutanix Cluster**

- Understand three-tier and hyperconverged infrastructure
- Understand the Nutanix product portfolio
- Understand nodes, blocks, clusters, and cluster services
- Get Started with Prism Central and Prism Element
- Understand when to use Prism Central and when to use Prism Element

### **Module 2: Configuring Cluster Networking**

- Understand AHV networking terminology
- Use Prism Central to monitor cluster networks
- Use Prism Element to explore the Network Visualizer
- Create and update subnets and virtual switches
- Understand subnet extension and network segmentation

### **Module 3: Managing Images**

- Understand the image service
- Use Prism Central to monitor, upload, import, and manage images

### **Module 4: Creating Virtual Machines**

- Use Prism Central to create VMs
- Use Prism Central's self-service capabilities to create VM templates
- Use Projects in Prism Central
- Install and enable Nutanix Guest Tools

### **Module 5: Managing Virtual Machines**

- Update, clone, customize, export, and apply placement rules to VMs
- Create and apply storage policies to VMs
- Create playbooks to automate common VM administrative tasks

## **Module 6: Configuring and Managing Cluster Storage**

- Understand AOS Storage
- Understand key storage concepts such as storage pools, storage containers, redundancy factor, replication factor, capacity reservation, and snapshots
- Understand fault tolerance and failure handling mechanisms
- Create and update storage containers
- Create and update volume groups
- Use various capacity optimization features

## **Module 7: Data Protection and Disaster Recovery**

- Understand data protection terms and concepts
- Understand synchronous and asynchronous replication capabilities
- Create snapshots and recovery points
- Use Prism Element to configure local and remote backup and disaster recovery
- Use Nutanix disaster recovery to create protection policies and recovery plans
- Backup and restore Prism Central

## **Module 8: Securing a Nutanix Cluster**

- Understand the Nutanix approach to security
- Use the Security dashboard in Prism Central
- Use Prism Central to configure authentication, users and RBAC
- Implement hardening features for AHV and the CVM
- Understand policies in Flow Network Security
- Understand data-at-rest encryption

## **Module 9: Migrating Workloads with Nutanix Move**

- Understand, install, and upgrade Nutanix Move
- Use Move to migrate VMs
- Download Move logs

## **Module 10: Monitoring Cluster Performance**

- Understand performance monitoring features in Prism Central
- Create sessions, charts, and reports
- View and manage project resource utilization
- Create custom dashboards in Prism Central
- Resource planning and capacity runway

## **Module 11: Monitoring Cluster Health**

- Understand health monitoring features in Prism Central and Prism Element
- Get summarized and detailed health information from Prism
- Use Nutanix Cluster Check
- Collect and forward logs

## **Module 12: Maintaining and Upgrading a Cluster**

- Perform a health check
- Use node-maintenance mode
- Understand hardware upgrade and replacement tasks
- Start and stop nodes and clusters

- Add and remove nodes
- Understand and explore Life Cycle Manager (LCM)
- Use LCM to perform inventory and upgrades

### **Module 13: Investigating and Remediating Performance Issues**

- Understand alerts and events and the associated dashboards in Prism Central
- Troubleshoot issues with protection policies, LCM, security, and performance
- Identify problematic or inefficient VMs
- Explore potential methods of remediating problematic VMs

## **Virtual Classroom Live Labs**

### **Hands-on Labs**

- Connecting to and exploring the Prism Web Console

### **Adding data services IP, an NTP server, and a name server Connecting to, exploring and configuring Prism Central**

### **Hands-on Labs**

- Creating unmanaged and managed networks
- Exploring the AHV network configuration
- Viewing virtual switches from the Prism Web Console

### **Hands-on Labs**

- Understand the image service
- Use Prism Central to monitor, upload, import, and manage images
- Uploading and importing images to Prism Central
- Configuring an image placement policy

### **Hands-on Labs**

- Creating Windows and Linux VMs
- Installing Windows and Linux operating systems
- Installing Nutanix Guest Tools on Windows and Linux
- Creating a project
- Exploring the Self-Service dashboard in Prism Central

### **Hands-on Labs**

- Updating a VM
- Assigning categories to a VM
- Creating a snapshot and restoring a VM
- Creating a template and a clone
- Exporting a VM as an Open Virtual Appliance (OVA) file
- Creating and running a playbook

### **Hands-on Labs**

- Exploring the Storage dashboard
- Creating containers with and without compression
- Comparing data in a compressed vs uncompressed container

- Configuring volume groups
- Migrating vdisks between storage containers

### **Hands- on Labs**

- Backing up and restoring Prism Central
- Configuring Self-Service Restore
- Creating protection domains and local VM restore
- Creating containers for replication
- Configuring remote sites and creating protection domains
- Performing VM migration and migrating back to primary

### **Hands-on-Labs**

- Exploring the Security dashboard
- Adding a local user
- Adding Active Directory authentication
- Configuring Role Mapping
- Verifying a new user account
- Cluster lockdown

### **Hands-on Labs**

- Preparing a VM for migration
- Deploying a Move VM
- Configuring Move and a migration plan

### **Hands-on Labs**

- Creating a Prism Central performance monitoring dashboard
- Creating charts to analyze metrics using Prism Central
- Creating and managing reports

### **Hands-on Labs**

- Using Nutanix Cluster Check health checks
- Collecting logs for Support
- Verifying cluster health

### **Hands-on Labs**

- Using node maintenance mode
- Performing upgrades with LCM (with and without internet access)

### **Hands-on Labs**

- Working with Alerts
- Exploring Events

Sep 2 - 5, 2025 | 10:00 AM - 6:00 PM EST

Sep 22 - 25, 2025 | 10:00 AM - 6:00 PM EST

Oct 6 - 9, 2025 | 10:00 AM - 5:30 PM EST

Oct 20 - 23, 2025 | 10:00 AM - 6:00 PM EST

Nov 3 - 6, 2025 | 10:00 AM - 6:00 PM EST

Nov 17 - 20, 2025 | 10:00 AM - 6:00 PM EST

Dec 1 - 4, 2025 | 10:00 AM - 6:00 PM EST

Dec 15 - 18, 2025 | 10:00 AM - 6:00 PM EST



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PRIVATE GROUP TRAINING

4 Day

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