

Nutanix Enterprise Cloud Administration

Duration: 4 Days Course Code: GK9915 Version: 6.10

Overview:

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.

Target Audience:

- 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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Objectives:

- 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.
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Content:

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

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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