

Nutanix Enterprise Cloud Administration

Duration: 4 Days **Course Code: GK9915** **Version: 6.5**

Overview:

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.

Designed with Prism Central as the focal point, this course illustrates the breadth and depth of Nutanix's centralized management capabilities, and allows you to explore the wide variety of features that are available in this one, single web console.

ECA is divided into four major sections:

- Understanding core Nutanix concepts, such as hyperconverged infrastructure (HCI) and the various Nutanix cloud solution packages. Also, the basic configuration of a cluster and the components that are needed to create and manage VMs – namely, networks and images.
 - Creating and managing VMs, how to protect VMs and their data, how to apply storage optimization features at the VM level, and how to migrate your workloads to a Nutanix environment.
 - Learn about alerts, events, log collection, reporting, and how to use various features in Prism Central to identify, analyze, and remediate performance issues.
 - 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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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

Testing and Certification

Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI)
v6.5

Content:

1: Getting Started with a Nutanix Cluster

- Understand three-tier and hyperconverged infrastructure
- Understand Nutanix Cloud Solution Packages
- 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

Hands-on-Labs of 1

- Connecting to and exploring the Prism Web Console
- Adding data services IP, an NTP server, and a name server
- Configuring Active Directory authentication
- Exploring Prism Central
- Prism Central initial configuration

2: Securing a Nutanix Cluster

- Understand Nutanix's approach to security
- Use Prism Central to configure authentication, users, and RBAC
- Understand Policies in Flow Network Security
- Use Prism Element to configure Data-at-Rest Encryption

Hands-on-Labs of 2

- Adding a local user
- Verifying a new user account

3: 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

Hands-on Labs of 3

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

4: Managing Images

- Understand the image service
- Use Prism Central to monitor, upload,

6: 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

Hands-on Labs of 6

- Updating a VM
- Creating a template and a clone
- Exporting a VM as an OVA
- Creating and running a playbook
- Creating a storage policy

7: Protecting VMs and Their Data

- Understand data protection terms and concepts
- Understand synchronous and asynchronous replication capabilities
- Use Prism Element to configure local and remote backup and DR
- Use Prism Central to create protection policies with Leap

Hands-on Labs of 7

- 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

8: Configuring and Managing Cluster Storage

- Understand AOS Distributed 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
- Use various capacity optimization features

Hands-on Labs of 8

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

9: Migrating Workloads with Nutanix Move

- Understand, install, and upgrade Nutanix

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 logs

Hands-on Labs of 11

- Using Nutanix Cluster Check health checks
- Collecting logs for Support
- Creating and managing reports

12: Investigating and Remediating Performance Issues

- Understand alerts and events and the associated dashboards in Prism Central
- Identify problematic or inefficient VMs
- Potential methods of remediating problematic VMs

Hands-on Labs of 12

- Working with Alerts
- Exploring Events

13: Performing Cluster Maintenance

- Performing health checks
- Using maintenance mode
- Starting and stopping nodes and clusters
- Adding nodes to or removing nodes from clusters

Hands-on Labs of 13

- Verifying cluster health
- Putting a node into maintenance mode ; removing it

14: Upgrading Licenses, Software, and Firmware

- Understanding LCM and the LCM workflow
- Performing an upgrade using LCM
- Licensing a cluster and managing licenses

Hands-on Labs of 14

- Use Life Cycle Manager to upgrade NCC

import, and manage images	Move
Hands-on Labs of 4	<ul style="list-style-type: none"> ■ Use Move to migrate VMs ■ Download Move logs
<ul style="list-style-type: none"> ■ Uploading and importing images to Prism Central ■ Configuring an image placement policy 	Hands-on Labs of 9
5: Creating Virtual Machines	<ul style="list-style-type: none"> ■ Preparing a VM for migration ■ Deploying a Move VM ■ Configuring Move and a migration plan
<ul style="list-style-type: none"> ■ Use Prism Central to create VMs ■ Use Prism Central's self-service capabilities to create VM templates ■ Install and enable Nutanix Guest Tools 	10: Monitoring Cluster Performance
Hands-on Labs of 5	<ul style="list-style-type: none"> ■ Understand performance monitoring features in Prism Central ■ Create sessions, charts, and reports ■ Create custom dashboards in Prism Central
<ul style="list-style-type: none"> ■ Creating Windows and Linux VMs ■ Installing Windows and Linux operating systems ■ Installing Nutanix Guest Tools on Windows and Linux 	Hands-on Labs of 10
	<ul style="list-style-type: none"> ■ Creating a Prism Central performance monitoring dashboard ■ Creating charts to analyze metrics using Prism Central ■ Creating and managing reports

Additional Information:

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 15 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.

Further Information:

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