Nutanix Hybrid Cloud Fundamentals

Duration: 2 Days Course Code: NHCF Version: 7.5

Overview:

This course is designed for those who are new to Nutanix and want a feature-focused introduction to AOS Storage, our scale-out storage technology, and Prism, our multicloud management interface.
In Nutanix Hybrid Cloud Fundamentals (NHCF), you'll dive into Nutanix centralized management capabilities, with an emphasis on quickly getting hands-on with the Nutanix platform. This introductory course starts by discussing key Nutanix products and cluster-related concepts. Using the Prism Central and Prism Element unified control plane, you will learn how to monitor cluster health and performance, manage software versions, create and manage VMs, and perform basic management tasks on hardware, storage, and networks.

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Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

- Network and security operations center personnel who want to learn Nutanix fundamentals (Prism, AOS, AHV) virtualization and cloud-related concepts.

- Specific job roles that will benefit from the NHCF course:
- Network Operations Center (NOC) operators
- Security Operations Center (SOC) operators
- Datacenter Operations (DCO) technician
- IT project managers
- IT staff new to Nutanix

- Anyone seeking the Nutanix Certified Associated (NCA) certification.

Objectives:

- **After this course participants should be able to:**
- Understand key Nutanix products and cluster-related concepts.
- Learn Nutanix centralized management capabilities.
- Monitor cluster health and performance.
- Manage software versions and system resources.
- Create and manage virtual machines (VMs).
- Perform basic management tasks on hardware, storage, and networks.

Prerequisites:

Designed for those who are new to Nutanix and virtualization and cloud-related concepts.

Testing and Certification

Nutanix Certified Associate (NCA)

Follow-on-Courses:

None

Content:

1: Introduction

- Understand three-tier and hyperconverged infrastructure (HCI)
- Understand Nutanix Cloud Solution Packages
- Get started with Prism Central and Prism Element
- Understand Nutanix Pulse
- Understand when to use Prism Central and when to use Prism Element
- Cluster setup fundamentals
- Understand cluster-level security settings

Hands-on Labs (1)

- Accessing and exploring Prism Element and Prism Central
- Deciding when to use Prism Central versus Prism Element

2: Hardware and Storage Concepts

- Understand nodes, blocks, and clusters
- Understand types of physical storage
- Understand AOS Distributed Storage
- Understand key storage concepts such as storage pools, storage containers, redundancy factor, replication factor, capacity reservation, cluster resiliency, and snapshots
- Use different Prism Central dashboards to monitor cluster hardware and storage

Hands-On Labs (2)

- Exploring the hardware and storage containers dashboards
- Creating a storage container

3: Networking

- Understand AHV networking terminology and key concepts such as managed and unmanaged networks
- Use Prism Central to monitor cluster networks
- Use Prism Element to explore the Network Visualizer

Hands-On Labs (3)

- Viewing network configuration in Prism Central
- Using the Network Visualizer

4: Image Management

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

Hands-On Labs (4)

- Exploring the images dashboard
- Uploading and importing an image to Prism Central
- Uploading an image using Prism Element

5: VM Management

- Use Prism Central to create and monitor VMs
- Perform basic VM management tasks such as updating, deleting, exporting, and cloning VMs; taking snapshots; and creating VM recovery points
- Understand categories and affinity policies

Hands-On Labs (5)

- Exploring the VMs dashboard
- Creating VMs
- Creating a VM recovery point
- Cloning a VM
- Exporting a VM as an OVA file

6: Backup and Disaster Recovery Fundamentals

- Understand data protection and data protection strategies
- Create snapshots and recovery points
- Use the Data Protection dashboard
- Create protection domains and remote sites
- Understand Nutanix Disaster Recovery terms and concepts

Hands-on Labs (6)

- Creating protection domains and local VM restore
- Configuring remote sites
- Creating protection domains using remote sites
- Performing VM migration

7: Monitoring Cluster Performance and Health

- Use Prism Central to create sessions, charts, and reports
- Understand and explore alerts and events
- Configure alert emails
- Collect logs
- Use the Nutanix Support Portal to create a support case

Hands-On Labs (7)

- Adding built-in charts to the Analysis Dashboard
- Creating a custom chart
- Creating a new report
- Viewing, downloading, and scheduling reports
- Monitoring cluster health
- Collecting logs

8: Understanding Licensing and Performing Upgrades

- Understand License Manager
- View license details in Prism and on the Nutanix Support ; Insights Portal
- License a cluster
- Understand Life Cycle Manager (LCM) and the LCM workflow
- Use the LCM dashboard in Prism Central and Prism Element
- Use LCM to perform an inventory

Hands-On Labs (8)

- Exploring the LCM dashboard
- Performing inventory at a Connected Site and at a Dark Site

Additional Information:

- 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:

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

training@globalknowledge.qa

www.globalknowledge.com/en-qa/

Global Knowledge, Qatar Financial Center, Burj Doha,Level 21, P.O.Box 27110, West Bay, Doha, Qatar