Nutanix Hybrid Cloud Fundamentals

Duration: 2 Days Course Code: NHCF Version: 7.5

Overview:

Learn the fundamentals of hybrid cloud infrastructure and gain the skills needed to deploy, manage, and operate the Nutanix Cloud Platform across private and hybrid cloud environments.

A career as a Nutanix Administrator is more than just maintaining servers; it is about driving business agility. By mastering the ability to simplify complex data center operations, you become a strategic asset who reduces operational overhead and eliminates technical silos. In today's market, a Nutanix admin is the orchestrator of the software-defined data center, providing the stability and scalability that allow businesses to focus on application innovation rather than hardware firefighting.
Proficiency in the Nutanix ecosystem prepares you for specialized positions such as HCI Architect, Cloud Infrastructure Lead, Storage Specialist, and Platform Engineer. Furthermore, with Nutanix's increasing focus on AI-ready infrastructure, skilled administrators are now finding opportunities as AI Infrastructure Ops, managing the high-performance clusters required for enterprise-scale machine learning and generative AI applications.

To help you position yourself for success as a Nutanix administrator, this course will equip you with the skills and knowledge needed to:
- Navigate and differentiate between Prism Element and Prism Central
- Describe key hardware and storage concepts
- Configure and validate networking elements in Prism Central
- Perform core image management tasks
- Create and manage virtual machines
- Monitor cluster performance and health
- Perform basic lifecycle management tasks

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Target Audience:

This course is designed for Systems Administrators, Data Center Engineers, and Cloud Architects who are ready to master the next generation of invisible infrastructure. Whether you are a veteran moving away from legacy virtualization or an early-career professional aiming to specialize in Hyperconverged Infrastructure (HCI), this curriculum provides the hands-on expertise needed to manage the Nutanix Cloud Platform with confidence.

Objectives:

- **By the end of this course, you will be able to:**
- Distinguish between Prism Element and Prism Central within a Nutanix HCI environment
- Explain AOS storage architecture, resiliency factors, and capacity optimization
- Configure storage containers and virtual networking within Prism Central
- Administer the Image Service and use categories to automate infrastructure policies
- Execute VM lifecycle tasks, including creation, customization, and cloning
- Analyze cluster performance via analysis sessions, custom charts, and reports
- Assess system health using Alerts dashboards and Nutanix Cluster Checks (NCC)
- Perform inventory operations and software updates using Life Cycle Manager (LCM)

Prerequisites:

Participants should have a basic understanding of IT infrastructure, virtualization concepts, networking, and cloud computing fundamentals. Prior experience with data center operations or

Testing and Certification

Nutanix Certified Associate (NCA)

system administration is recommended but not required.

Follow-on-Courses:

None

Content:

Module 1: Introduction

- Understanding HCI
- Introduction to Nutanix
- Logging into Prism Element and Prism Central
- Understanding Your Cluster
- Introduction to the Nutanix Support Portal

Module 2: Storage Concepts

- Understanding AOS Storage
- Storage Concepts
- Storage Resiliency
- Capacity Optimization
- Working with Storage Containers

Module 3: Networking

- AHV Networking Basics and Terminology
- Monitoring Networks in Prism Element and Prism Central

Module 4: Image Management

- Understanding the Image Services
- Uploading Images to Prism Element and Prism Central
- Importing Images to Prism Central
- Modifying an Uploaded Image

Module 5: Categories

- Understanding Categories
- Using Built-in Categories
- Assigning a Category to a VM
- Assigning a Storage Policy to a VM

Module 6: Virtual Machine (VM) Management

- Using the VMs Dashboard in Prism Central
- Creating and Updating VMs
- Cloning VMs
- Creating VM Recovery Points
- Exporting and Importing VMs

Module 7: Cluster Performance

- Working with Charts
- Working with Reports

Module 8: Cluster Health

- Monitoring Cluster Health Using Alerts, Events, and Audits
- Running Nutanix Cluster Check in Prism
- Collecting Logs

Module 9: Using LCM

- Introduction to LCM
- Performing Inventory

Additional Information:

- Official course book provided to participants
- Includes hands-on labs
- Comes with a free NCA exam voucher

Software:
- AOS
- Prism Central

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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