Enterprise Cloud Administration 5.15

NUTANIX UNIVERSITY

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AUDIENCE

- Administrators, architects, and business leaders who manage Nutanix clusters in the datacenter
- Managers and technical staff seeking information to drive purchase decisions
- Anyone who is seeking the Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI) certification

DESCRIPTION

The Nutanix Enterprise Cloud Administration (ECA) 5.15 course enables administrators (system, network, and storage) to successfully configure and manage Nutanix in the datacenter.

The course covers many of the tasks Nutanix administrators perform through the use of graphical user interfaces (GUIs) and command line interfaces (CLIs). It also provides insight into a Nutanix cluster's failover and self-healing capabilities, offers tips for solving common problems, and provides guidelines for collecting information when interacting with Nutanix Support.

COURSE OUTLINE

1: Introduction

The section describes the history of cloud computing, explains the Nutanix HCI solution, walks you through the components of the Nutanix Enterprise Cloud, and explains the relationship between physical and logical cluster components.

2: Managing the Nutanix Cluster

In this section, you will use the Prism console to monitor a cluster, configure a cluster using various interfaces, use the REST API Explorer to manage the cluster, and learn how to deploy Nutanix-specific PowerShell cmdlets.

3: Securing the Nutanix Cluster

This section shows how to secure a Nutanix cluster through user authentication, SSL certificate installation, and cluster access control.

4: Networking

This section explains how to configure managed and unmanaged Acropolis networks and describes the use of Open vSwitch (OVS) in Acropolis. You will learn how to display and manage network details, differentiate between supported OVS bond modes, and gain insight into default network configuration.

5: VM Management

This section shows you how to upload images, and how to create and manage virtual machines.

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COURSE DETAILS

Duration: 4 days

Delivery Methods:

Instructor-Led

- In-person and virtual options available
- Includes hands-on labs
- Public schedule from Authorized Training Partners (ATPs)
- Private classes available
- Includes a **FREE** NCP-MCI exam voucher

Online Plus

- 20 hours of self-paced online learning **PLUS** 1 day of hands-on labs
- Includes a **FREE** NCP-MCI exam voucher

Self-Paced Online

- 20 hours
- Demonstrations and interactive simulations of labs
- **FREE!**

See page 3 for more information to help you decide which delivery option is right for you.

6: Health Monitoring and Alerts

In this section, you will use the Health Dashboard to monitor a cluster's health and performance. You will also use Analysis Dashboard to create charts that you can export with detailed information on a variety of components and metrics.

7: Distributed Storage Fabric

This section discusses creating and configuring storage containers, including the storage optimization features: deduplication, compression, and erasure coding.

8: AHV Workload Migration

Using Nutanix Move, this section shows how to migrate workloads to a cluster running AHV. This is followed by a lab where a VM running on a Nutanix cluster configured with ESXi is migrated to a Nutanix cluster running AHV.

9: Acropolis Services

This section gives you detailed information on Nutanix Volumes, which provides highly available, high-performance block storage through a few easy configuration steps. It also discusses Nutanix Files.

10: Data Resiliency

This section shows how Nutanix provides comprehensive data protection at all levels of the virtual datacenter: logical and physical.

11: Data Protection

Data can be replicated between Nutanix clusters, synchronously and asynchronously. This section shows how to configure a Protection Domain (PD) and Remote Sites, recover a VM from a PD, and perform a planned failover of a PD.

12: Prism Central

Having discussed and used Prism Element earlier, this section looks at the capabilities of Prism Central. With the added functionality provided by a Pro license, the focus is on features related to monitoring and managing multiple activities across a set of clusters.

13: Monitoring the Nutanix Cluster

This section shows you where to locate and how to interpret cluster-related log files. In addition, you will take a closer look at the Nutanix Support Portal and online help.

14: Cluster Management and Expansion

This section outlines essential life-cycle operations, including starting/stopping a Nutanix cluster, as well as starting/shutting down a node. You will also learn how to expand a cluster, manage licenses, and upgrade the cluster's software and firmware.

15: Remote Office Branch Office (ROBO) Deployments

In this section, you will understand various configurations and requirements specific to a ROBO site. This includes hardware/software, Witness VM, networking, failure and recovery scenarios for two-node clusters, and the seeding process.

DELIVERY OPTIONS

Use this information to decide which course format is right for you. Contact university@nutanix.com if you have any questions.

FEATURE	INSTRUCTOR-LED	ONLINE PLUS	SELF-PACED ONLINE
Official Nutanix Content Written by Technology Experts	X	X	X
Prepares you for NCP-MCI Certification Exam	X	X	X[3]
Includes FREE NCP-MCI Exam Voucher	X	X	
Delivered by a Live, Expert Instructor	X		
Provides Hands-on Labs	X	X[3]	
Ability to Ask Questions of the Instructor	X		
No travel required [4]	X	X	X
Complete on Your Own Schedule, at Your Own Pace		X[2]	X
Private Classes Available	X		
Ability to Communicate with and Learn from Fellow Students	X		
Time Commitment	4, 8-hour days	20 hours on your schedule + 1, 7hr day of labs	20 hours, on your schedule
Price	USD $3500[1]	USD $800[1]	Free!
Payment Options	PO, Credit Card, Flex Credits	PO, Credit Card, Flex Credits	Free!

Notes:
1. Price shown is list price, ATPs may offer other pricing or discounts.
2. You will select a date for the lab portion, but the online portion can be done on your schedule.
3. Additional hands on time with the technology is recommended, unless you are an experienced user.
4. Private instructor-led training and virtual options can be delivered at your location or virtually; however, you may have to travel to a public class if one is not available in your area.

RELATED CERTIFICATION

Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI)

NCP-MCI certification holders have demonstrated the skills and knowledge to manage Nutanix AOS nodes, blocks, and clusters in the datacenter. Earning it validates your ability to deploy, administer, and troubleshoot Nutanix AOS, proving your mastery of key concepts from VM management to lifecycle operations.

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 days written notice to Nutanix. Rescheduling fees may apply.
- Customer may substitute a student with no less than 5 days written notice to Nutanix. Rescheduling fees do not apply to substitutions.
- Training seats must be consumed within 6 months of purchase. Failure to utilize the training seats within the 6 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 ATPs have a 10-day cancellation and/or reschedule policy. If customer cancels or reschedules within those 10 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.

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