Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Nutanix Advanced Administration & Performance Management

CODE:	LENGTH:	PRICE:
EDU-NUTX-AAPM	40 Hours (5 days)	$5,100.00

Description

If you are an experienced Nutanix administrator, this course will serve as a deep dive that gives you a rich, nuanced understanding of the Nutanix platform, and will help you get the most out of your Nutanix solutions. AAPM is divided into six major sections, each focused on performance improvements and advanced administration techniques for different aspects of your clusters:

Objectives

When you complete this course, you will be able to:

- Storage: Take a deep dive into AOS storage services, different aspects of Acropolis Distributed Storage, storage optimization, and storage best practices for application workloads.
- Networks: Learn how to optimize physical and virtual workloads, as well as how to implement Flow Virtual Networking and Virtual Private Clouds (VPCs).
- VMs: Learn about sizing the CVM and Prism Central VMs, alternate methods of VM provisioning (such as via CLI), how to work with GPUs, and how to improve VM storage and network performance.
- Security: Understand important features such as authentication, RBAC, IAM, and encryption. Learn how to use essential security products, such as Flow Security Central and Flow Network Security.
- Analyzing Problems: Explore ways to monitor and identify health issues, network performance, VM performance, and cluster performance.
- Business Continuity and Disaster Recovery: Learn about Nutanix data backup, web-scale data protection, protection from ransomware, self service restore, and third-party integrations. You will also learn how to use protection domains and Nutanix Leap for disaster recovery.

Audience

- IT administrators and architects who manage Nutanix clusters but would like more in-depth knowledge of Nutanix datacenter administration
- Anyone preparing for the Nutanix Certified Master -Multicloud Infrastructure (NCM-MCI) certification.

Program

Exploring Nutanix Storage Features
Understanding Nutanix AOS Services and AOS Storage Services
Exploring Storage Components
AOS Storage Data Pathing
Creating a Highly Available, Performant, and Resilient Storage Layer
Creating Highly Available, Resilient Infrastructure
Storage Optimization and Data Efficiency
Optimizing and Planning for New Workloads
Storage Best Practices for Application Workloads
Optimizing Physical and Virtual Networks in AOS
Optimizing Physical & Virtual Networks
Best Practices
Optimizing Overlay Networks Using Flow Networking
Optimizing Physical & Virtual Networks
Implementing Flow Networking

Implementing VPCs
Overlay Network Use Cases
Optimizing VM Performance
Sizing the CVM & Prism Central
Alternate Methods of Provisioning User VMs
Working with GPUs in AHV
Improving VM Storage and Network Performance
Analyzing Nutanix Cluster Security Options
Nutanix Security Technologies
User Authentication and Permissions
Hardening AHV and the CVM
Using Flow Network Security & Flow Security Central
Data Encryption with Nutanix
Managing Log Files
Microsegmentation with Flow Network Security
Flow Policy Constructs
Security Policy Models and Types
Enabling Microsegmentation
Creating and Applying Policies
Microsegmentation with Flow Network Security
Evaluating Cluster Health
Network Packet Capture and Inspection
Acropolis Service Failures
Ensuring Efficient Physical Resource Consumption with Machine Learning
Application Monitoring and Discovery
Monitoring Performance
Business Continuity
Assessing Business Continuity and Disaster Recovery
High Availability and Data Protection
Third Party Backup Integrations
Best Practices
Implementing Disaster Recovery
Replicating Data with AOS
Disaster Recovery Orchestration
Disaster Recovery with Protection Domains
Getting Started with Nutanix Leap
Protecting Against Ransomware

Test and Certification

The certification associated with this class is the Nutanix Certified Master -Multicloud Infrastructure (NCM-MCI) certification.

Session Dates

On request. Please Contact Us

Additional Information

This training is also available as onsite training. Please contact us to find out more.