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Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

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NUTANIX

Nutanix Advanced Administration & Performance Management 5.15

CODE:	**LENGTH:**	**PRICE:**
NUT_AAPM	32 Hours (4 days)	€3,395.00

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:

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

Prerequisites

- Nutanix Enterprise Cloud Administration (ECA) classroom training or an NCP-MCI certification
- Basic knowledge of Nutanix datacenter administration techniques
- Familiarity with traditional virtualization storage architectures
- Comfort with Linux command-line interface

To ensure AAPM is the right fit, we encourage you to complete our online Readiness Evaluation. Questions are based on topics covered in the ECA course and NCP-MCI exam that you should be familiar with before attending.

Programme

1: Exploring Nutanix Storage Features
Understanding Nutanix AOS Services and AOS Storage Services
Exploring Storage Components
AOS Storage Data Pathing
Hands-on Labs
Creating a Storage Container
Updating Reported Capacity

2: 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

Hands-on Labs
Observing Nutanix Cloning Efficiency
Reserving Rebuild Capacity in AHV
Observing the Rebuild Process
Disabling Rebuild Capacity Reservation
Creating a Storage Container with Deduplication Enabled
Reviewing Deduplication Savings
Enabling Replication Factor 1 and Creating a Storage Container

3: Optimizing Physical and Virtual Networks in AOS
Optimizing Physical & Virtual Networks
Best Practices
Hands-on Labs
Managing Virtual Switches and Uplinks
Viewing Virtual Switches from Prism Element
Configuring CVM Network Segmentation
Configuring QoS Traffic Marking

4: Optimizing Overlay Networks Using Flow Networking
Optimizing Physical & Virtual Networks
Implementing Flow Networking
Implementing VPCs
Overlay Network Use Cases
Hands-on Labs
Enabling Flow Networking
Creating an External Subnet
Creating a VPC
Creating VMs using the Overlay Subnets
Configuring Local and Remote Gateways
Establishing a VPN Connection
Verifying VPN Connectivity

5: 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
Hands-on Labs
Creating VMs with the REST API
Configuring VirtIO Multi-Queue
Configuring Volumes Block Storage

6: 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
Hands-on Labs
Configuring Cluster Lockdown
Replacing Default SSL Certificates
Configuring Syslog Integration
Managing User Permissions

7: Microsegmentation with Flow Network Security
Flow Policy Constructs
Security Policy Models and Types
Enabling Microsegmentation
Creating and Applying Policies
Hands-on Labs
Enabling Flow Microsegmentation
Creating Categories
Creating VMs and Assigning Categories
Configuring Isolation and Application Security Policies

8: 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
Hands-on Labs
Creating a Prism Central Performance Monitoring Dashboard
Creating Charts to Analyze Metrics Using Prism Central
Creating Charts to Analyze Entities Using Prism Element

9: Business Continuity
Assessing Business Continuity and Disaster Recovery
High Availability and Data Protection
Third Party Backup Integrations
Best Practices
Hands-on Labs
Configuring Self Service Restore

10: Implementing Disaster Recovery
Replicating Data with AOS
Disaster Recovery Orchestration
Disaster Recovery with Protection Domains
Getting Started with Nutanix Leap
Protecting Against Ransomware
Hands-on Labs
Enabling Nutanix Leap
Configuring an Availability Zone
Configuring a Protection Policy
Creating Production and Test VLANs
Preparing VMs for Nutanix Leap
Configuring a Recovery Plan
Performing Test and Planned Failover

Session Dates

Aikataulutamme kiinnostuksen mukaan. Ota yhteyttä

Additional Information

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