



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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# Nutanix Advanced Administration & Performance Management 5.15

CODE:	LENGTH:	PRICE:
NUT_AAPM	32 Hours (4 dage)	kr 24,000.00

## 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.

## Objectives

- Monitor datacenter performance and manage components to optimize system performance.
- Implement advanced solutions for business continuity and data protection in Nutanix datacenters.
- Design high-performing networks to support Nutanix clusters.
- Customize Nutanix security features.
- Deploy all Nutanix storage solutions: Files, Volumes, and Objects.
- Use Prism Central to:
  - oIdentify and fix cluster health problems
  - oExploit machine learning for entity management and resource optimization
  - oPlan for future growth
  - oManage assets and applications using Calm, Life Cycle Management (LCM)
- Practice advanced datacenter management procedures using hands-on labs.
- Get the most out of Nutanix systems by maximizing configuration and operation for peak efficiency.
- Validate your new skills by preparing for and completing the Nutanix Certified Advanced Professional (NCAP) certification.

## 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

Understanding Nutanix AOS Services and AOS Storage Services  
Exploring Storage Components  
AOS Storage Data Pathing

1: Exploring Nutanix Storage Features Hands-on Labs

Creating a Storage Container

Updating Reported Capacity 2: Creating a Highly Available, Performant, and Resilient Storage Layer

Observing Nutanix Cloning Efficiency

Reserving Rebuild Capacity in AHV

Creating Highly Available, Resilient Infrastructure Observing the Rebuild Process

Storage Optimization and Data Efficiency

Disabling Rebuild Capacity Reservation

Optimizing and Planning for New Workloads

Creating a Storage Container with Deduplication Enabled

Storage Best Practices for Application Workloads Reviewing Deduplication Savings

Hands-on Labs

Enabling Replication Factor 1 and Creating a Storage Container

Optimizing Physical & Virtual Networks

Best Practices

3: Optimizing Physical and Virtual Networks in AOS 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

Enabling Flow Networking

Creating an External Subnet

Optimizing Physical & Virtual Networks Creating a VPC

Implementing Flow Networking

Creating VMs using the Overlay Subnets

Implementing VPCs

Configuring Local and Remote Gateways

Overlay Network Use Cases

Establishing a VPN Connection

Hands-on Labs

Verifying VPN Connectivity

5: Optimizing VM Performance

Sizing the CVM & Prism Central

Alternate Methods of Provisioning User VMs

Working with GPUs in AHV

Creating VMs with the REST API

Improving VM Storage and Network Performance Configuring VirtIO Multi-Queue

Hands-on Labs

Configuring Volumes Block Storage

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

6: Analyzing Nutanix Cluster Security Options Hands-on Labs

Configuring Cluster Lockdown

Replacing Default SSL Certificates

Configuring Syslog Integration

Managing User Permissions

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

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

Flow Policy Constructs

Security Policy Models and Types

Enabling Microsegmentation

Creating and Applying Policies

7: Microsegmentation with Flow Network Security 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

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Assessing Business Continuity and Disaster Recovery

High Availability and Data Protection

Third Party Backup Integrations

Best Practices

Hands-on Labs

9: Business Continuity

Configuring Self Service Restore 10: Implementing Disaster Recovery

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

## Session Dates

På anmodning. [Kontakt os venligst](#)

## Yderligere Information

[Denne træning er også tilgængelig som træning på stedet. Kontakt os for at finde ud af mere.](#)