ITTcert
BY ORSYS

Course : Nutanix - Advanced Administration and Performance Management (AAPM) V6.10

Official course, NCM-MCI exam preparation

Practical course - 4d - 28h00 - Ref. NUA
Price : 3800 € E.T.

★★★★½   4,4 / 5

With this training course, you'll develop advanced Nutanix expertise. You'll optimize storage, networks and VMs, learn to use GPUs and provision efficiently. You'll master security (authentication, RBAC, IAM, encryption) and Flow solutions. You'll be able to analyze and resolve performance problems. Finally, you'll set up business continuity with backup, ransomware protection and disaster recovery.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Monitor and optimize Nutanix cluster performance
- ✓ Implementing backup and disaster recovery
- ✓ Design and configure high-performance networks
- ✓ Enhance security with RBAC, encryption and Flow Security
- ✓ Deploy and manage Nutanix storage solutions

Intended audience

IT administrators and architects managing Nutanix clusters, and anyone wishing to prepare for NCM-MCI certification.

Prerequisites

ECA training (ref. NUE) or NCP-MCI certification. Knowledge of Nutanix datacenter administration techniques and traditional virtualized storage architectures.

Certification

Successful completion of the NCM-MCI exam leads to certification as a "Nutanix Certified Master - MultiCloud Infrastructure".

Comment passer votre examen ?

Practical details

Teaching methods

Training in French. Official course material in digital format and in English. Good understanding of written English.

Course schedule

(1) Explore Nutanix storage features

- Understand AOS and AOS Storage services.
- Explore storage components.
- Analyze data flow in AOS Storage.

Hands-on work

Create a storage container, update the declared capacity.

(2) Create an available, high-performance, resilient storage layer

- Build a highly available and resilient infrastructure.
- Optimize storage and improve data efficiency.
- Plan and adapt new workloads.
- Apply good storage practices for applications.

Hands-on work

observe cloning efficiency, reserve rebuild capacity, deactivate this reservation, create a container with deduplication, activate RF1 and analyze gains.

(3) Optimizing physical and virtual networks in AOS

- Optimize physical and virtual networks.
- Apply good network practices.

Hands-on work

Manage virtual switches and uplinks, visualize in Prism Element, configure CVM network segmentation, set QoS tagging Configure CVM network segmentation. Configure QoS marking.

(4) Deploy and optimize overlay networks with Flow Networking

- Implement Flow Networking.
- Create and configure VPCs.
- Define overlay use cases.

Hands-on work

Activate Flow Networking, create an external subnet, create a VPC, deploy VMs in overlay subnets, configure local and remote gateways, establish a VPN connection and check connectivity.

5   Improve VM performance

- Sizing CVM and Prism Central.
- Use alternative provisioning methods.
- Using GPUs in AHV.
- Optimize VM storage and network performance.

Hands-on work
Create VMs via REST API, configure VirtIO multi-queue, set up block storage.

6   Strengthening Nutanix cluster security

- Deploy Nutanix security technologies.
- Configure authentication and permissions.
- Harden AHV and CVM.
- Use Flow Network Security and Flow Security Central.
- Encrypt data and manage logs.

Hands-on work
Enable cluster lockdown, replace SSL certificates, integrate Syslog, manage user permissions.

7   Implementing microsegmentation with Flow Network Security

- Define Flow policies and models.
- Activate microsegmentation.
- Create and apply security policies.

Hands-on work
Enable microsegmentation, create categories, deploy VMs and assign categories, configure isolation and application policies.

8   Monitor and analyze performance

- Assess the health of a cluster.
- Capture and inspect network packets.
- Detect and analyze Acropolis failures.
- Optimize physical resource consumption with machine learning.
- Monitor and discover applications.
- Monitor and analyze performance.

Hands-on work
Create a Prism Central dashboard, generate metric and entity charts with Prism.

9   Ensuring business continuity

- Assess disaster recovery and continuity needs.
- Implement high availability and data protection.
- Integrate third-party backup solutions.
- Apply good continuity practices.

Hands-on work
Configure self-service catering.

⑩ Deploying disaster recovery

- Replicate data with AOS.
- Orchestrate disaster recovery.
- Use Protection Domains and Nutanix Leap.
- Protect infrastructure against ransomware.

Hands-on work

Activate Nutanix Leap, configure an availability zone, define a protection policy, create production and test VLANs, prepare VMs for Leap, create a recovery plan, execute and test a failover.

Dates and locations

REMOTE CLASS
2026 : 24 Mar., 16 June, 29 Sep., 8 Dec.