

# Course : Nutanix - Enterprise Cloud Administration (ECA) V6.10

Official course, NCP-MCI exam preparation

*Practical course - 4d - 28h00 - Ref. NUE*

*Price : 3740 € E.T.*

With this training, you'll deepen your skills in administering a Nutanix environment, expanding your mastery of advanced features as you progress in your career as a Nutanix administrator. Designed with Prism Central, this course illustrates the breadth and depth of Nutanix's centralized management capabilities, and lets you explore the wide variety of features available in this unique web-based console.

## Teaching objectives

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

- ✓ Understand basic Nutanix concepts, such as HCI infrastructure and the various Nutanix cloud solutions
- ✓ Create, manage and protect VMs, optimize their storage and migrate workloads to a Nutanix environment
- ✓ Discover alerts, events, logging and reporting
- ✓ Use various Prism Central functions to identify, analyze and resolve performance problems
- ✓ Set up a cluster for maintenance activities, such as starting and stopping nodes and clusters
- ✓ Upgrade installed software and firmware in just a few clicks

## Intended audience

Administrators, engineers and anyone managing Nutanix clusters in the datacenter. Managers and IT staff looking for information to make purchasing decisions.

## Prerequisites

Experience of administering a Nutanix environment.

## PARTICIPANTS

Administrators, engineers and anyone managing Nutanix clusters in the datacenter. Managers and IT staff looking for information to make purchasing decisions.

## PREREQUISITES

Experience of administering a Nutanix environment.

## TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

## ASSESSMENT TERMS

Assessment of targeted skills prior to training.

Assessment by the participant, at the end of the training course, of the skills acquired during the training course.

Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.

At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.

An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

## Certification

Successful completion of the NCP-MCI exam leads to certification as a "Nutanix Certified Professional - 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 Getting started with a Nutanix cluster

- Understanding the three levels and the HMI.
- Understand the Nutanix product range.
- Understand nodes, blocks, clusters and cluster services.
- Getting started with Prism Central and Prism Element.
- Understand when to use Prism Central and Prism Element.

#### Hands-on work

Connecter et explorer Prism Element. Ajouter une adresse IP de services de données, d'un serveur NTP et d'un serveur de noms dans Prism Element. Connecter, explorer et configurer Prism Central.

### 2 Cluster networking configuration

- Understand AHV network terminology.
- Use Prism Central to monitor cluster networks.
- Use the Prism element to explore the Network Viewer.
- Create and update subnets and virtual switches.
- Understand subnet extension and network segmentation.

#### Hands-on work

Créer des réseaux non gérés et gérés. Explorer la configuration du réseau AHV. Afficher des commutateurs virtuels à partir de Prism Element.

### 3 Image management

- Understanding the imaging department.
- Use Prism Central to monitor, download, import and manage images.

#### Hands-on work

Télécharger et importer des images dans Prism Central. Configurer une stratégie de placement d'image.

### 4 Creating virtual machines

- Use Prism Central to create VMs.
- Use Prism Central's self-service features to create VM templates.
- Using projects in Prism Central.
- Install and activate Nutanix Guest Tools.

## TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

## TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

## ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) so that we can assess your request and its feasibility.

## 5 Virtual machine management

- Update, clone, customize, export and apply placement rules to VMs.
- Create and apply storage policies to VMs.
- Create playbooks to automate routine VM administrative tasks.

### Hands-on work

Mettre à jour une VM. Attribuer des catégories à une VM. Créer un instantané et restaurer une VM. Créer un modèle et un clone. Exporter une VM sous forme de fichier OVA (Open Virtual Appliance). Créer et exécuter un playbook.

## 6 Configuring and managing clustered storage

- Understanding AOS storage.
- Comprendre les bases du stockage : pools, conteneurs, redondance, réplication, capacité, instantanés.
- Understand fault tolerance and failure management mechanisms.
- Create and update storage containers.
- Create and update volume groups.
- Use various capacity optimization features.

## 7 Data protection and disaster recovery

- Understand data protection terms and concepts.
- Understand synchronous and asynchronous replication features.
- Create snapshots and recovery points.
- Use Prism Element to configure local and remote backup and disaster recovery.
- Use Nutanix Disaster Recovery to create protection policies and recovery plans.
- Backup and restore Prism Central.

### Hands-on work

Sauvegarder et restaurer Prism Central. Configurer la restauration en libre-service. Créer des domaines de protection et restaurer des VM locales. Créer des conteneurs pour la réplication. Configurer des sites distants et créer des domaines de protection.

## 8 Securing a Nutanix cluster

- Understand Nutanix's approach to security.
- Use the security dashboard in Prism Central.
- Use Prism Central to configure authentication, users and RBAC.
- Implementation of reinforcement functions for AHV and CVM.
- Understanding Flow Network Security strategies.
- Understand data encryption at rest.

### Hands-on work

Explorer le tableau de bord de sécurité. Ajouter un utilisateur local. Ajouter l'authentification Active Directory. Configurer le mappage des rôles. Vérifier un nouveau compte utilisateur. Verrouiller des clusters.

## 9 Workload migration with Nutanix Move

- Understand, install and upgrade Nutanix Move.
- Use Move to migrate virtual machines.
- Download moving logs.

### Hands-on work

Préparer une VM pour la migration. Déployer une VM Move. Configurer Move et le plan de migration. Surveiller des performances du cluster.

## 10 Cluster performance monitoring

- Understand the performance monitoring features of Prism Central.
- Create sessions, charts and reports.
- View and manage the use of project resources.
- Create customized dashboards in Prism Central Resource planning and Capacity Runway.

### Hands-on work

Créer un tableau de bord de surveillance des performances Prism Central. Créer des graphiques pour analyser les métriques à l'aide de Prism Central. Créer et gérer des rapports.

## 11 Cluster status monitoring

- Understand the status monitoring features in Prism Central and Prism Element.
- Get summarized and detailed health information from Prism.
- Use Nutanix Cluster Check.
- Collect and transmit logs.

### Hands-on work

Utiliser des vérifications de l'état de Nutanix Cluster Check. Collecter des journaux pour l'assistance. Vérifier l'état du cluster.

## 12 Cluster maintenance and upgrades

- Check condition.
- Use node maintenance mode.
- Understand hardware upgrade and replacement tasks.
- Start and stop nodes and clusters.
- Add and delete nodes.
- Understanding and exploring the Life Cycle Model (LCM).
- Use LCM for inventory and upgrades.

### Hands-on work

Utiliser le mode de maintenance des nœuds. Effectuer des mises à niveau avec LCM (avec et sans accès à Internet).

## 13 Investigating and resolving performance problems

- Understand alerts, events and associated dashboards in Prism Central.
- Solve problems related to protection strategies, LCM, security, performance, etc.
- Identify problematic or inefficient VMs.
- Potential methods for correcting problematic virtual machines.

### Hands-on work

Utiliser des alertes. Explorer les événements.

## Dates and locations

### REMOTE CLASS

2026 : 17 Mar., 9 June, 22 Sep., 1 Dec.