

# Nutanix - Enterprise Cloud Platform Administration (ECA)

ID ECA Price CHF 3,140.—(excl. VAT) Duration 4 days

## Who should attend

- Administrators, engineers, and others who manage Nutanix clusters in the datacenter
- Managers and technical staff seeking information to drive purchase decisions
- Anyone seeking the Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI) certification

## Prerequisites

Experience with administering a Nutanix environment

## Course Objectives

At the end of this course, you will be able to :

- Understand core Nutanix concepts, such as hyperconverged infrastructure (HCI) and the various Nutanix cloud solution packages. Also, the basic configuration of a cluster and the components that are needed to create and manage VMs – namely, networks and images.
- Create and manage VMs, know how to protect VMs and their data, how to apply storage optimization features at the VM level, and how to migrate your workloads to a Nutanix environment.
- Understand alerts, events, log collection, reporting, and how to use various features in Prism Central to identify, analyze, and remediate performance issues.
- Understand how to set up a cluster for maintenance activities – such as starting and stopping nodes and clusters – and how to manage and upgrade licenses and installed software with just a few clicks.

## Course Content

### 1 : Getting Started with a Nutanix Cluster

- Understand three-tier and hyperconverged infrastructure
- Understand Nutanix Cloud Solution Packages
- Understand nodes, blocks, clusters, and cluster services
- Get Started with Prism Central and Prism Element

- Understand when to use Prism Central and when to use Prism Element

### Hands-on Labs

- Connecting to and exploring the Prism Web Console
- Adding data services IP, an NTP server, and a name server
- Configuring Active Directory authentication
- Exploring Prism Central
- Prism Central initial configuration

### 2 : Securing a Nutanix Cluster

- Understand Nutanix's approach to security
- Use Prism Central to configure authentication, users, and RBAC
- Understand Policies in Flow Network Security
- Use Prism Element to configure Data-at-Rest Encryption

### Hands-on Labs

- Adding a local user
- Verifying a new user account

### 4: Managing Images

- Understand the image service
- Use Prism Central to monitor, upload, import, and manage images

### Hands-on Labs

- Uploading and importing images to Prism Central
- Configuring an image placement policy

### 5: Creating Virtual Machines

- Use Prism Central to create VMs
- Use Prism Central's self-service capabilities to create VM templates
- Install and enable Nutanix Guest Tools

### Hands-on Labs

- Creating Windows and Linux VMs

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- Installing Windows and Linux operating systems
- Installing Nutanix Guest Tools on Windows and Linux

## 6: Managing Virtual Machines

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

### Hands-on Labs

- Updating a VM • Creating a template and a clone
- Exporting a VM as an OVA • Creating and running a playbook
- Creating a storage policy

## 7. Protecting VMs and Their Data

- Understand data protection terms and concepts
- Understand synchronous and asynchronous replication capabilities
- Use Prism Element to configure local and remote backup and DR
- Use Prism Central to create protection policies with Leap

### Hands-on Labs

- Creating protection domains and local VM restore
- Creating containers for replication
- Configuring remote sites and creating protection domains
- Performing VM migration and migrating back to primary

## 8: Configuring and Managing Cluster Storage

- Understand AOS Distributed Storage
- Understand key storage concepts such as storage pools, storage containers, redundancy factor, replication factor, capacity reservation, and snapshots
- Understand fault tolerance and failure handling mechanisms
- Create and update storage containers
- Use various capacity optimization features

### Hands-on Labs

- Exploring the Storage dashboard
- Creating containers with and without compression
- Comparing data in a compressed vs uncompressed container
- Migrating vdisks between storage containers

## 9: Migrating Workloads with Nutanix Move

- Understand, install, and upgrade Nutanix Move
- Use Move to migrate VMs
- Download Move logs

### Hands-on Labs

- Preparing a VM for migration
- Deploying a Move VM
- Configuring Move and a migration plan

## 10: Monitoring Cluster Performance

- Understand performance monitoring features in Prism Central
- Create sessions, charts, and reports
- Create custom dashboards in Prism Central

### Hands-on Labs

- Creating a Prism Central performance monitoring dashboard
- Creating charts to analyze metrics using Prism Central
- Creating and managing reports

## 11: Monitoring Cluster Health

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

### Hands-on Labs

- Using Nutanix Cluster Check health checks
- Collecting logs for Support

## 12: Investigating and Remediating Performance Issues

- Understand alerts and events and the associated dashboards in Prism Central
- Identify problematic or inefficient VMs
- Potential methods of remediating problematic VMs

### Hands-on Labs

- Working with Alerts
- Exploring Events

## 13: Performing Cluster Maintenance

- Performing health checks
- Using maintenance mode
- Starting and stopping nodes and clusters
- Adding nodes to or removing nodes from clusters

## Hands-on Labs

- Verifying cluster health
- Putting a node into maintenance mode & removing it

## 14: Upgrading Licenses, Software, and Firmware

- Understanding LCM and the LCM workflow
- Performing an upgrade using LCM
- Licensing a cluster and managing licenses

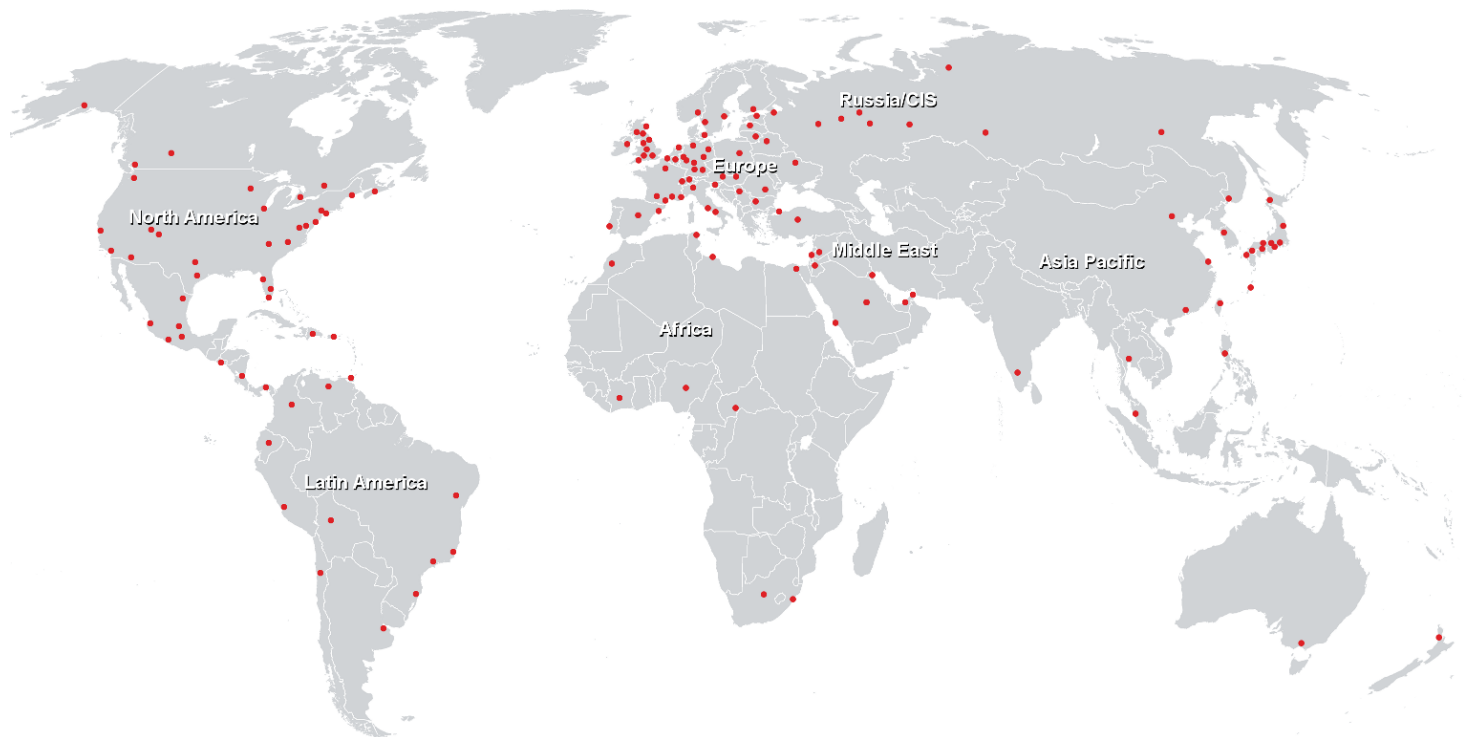
## Hands-on Labs

- Use Life Cycle Manager to upgrade NCC

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## Training Centres worldwide



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