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Register

# Nutanix® Cloud Professional Training

3 days (21 hours)

## Overview

This course is designed for individuals who are new to Nutanix and want an introduction focused on the features of AOS Storage, scale-out storage technology, and Prism, the multi-cloud management interface.

In the Nutanix Hybrid Cloud Fundamentals (NHCF) training course, you will explore the centralized management capabilities of the Nutanix platform, with a hands-on approach for quick learning. This introductory course begins with an overview of the main Nutanix products and fundamental concepts related to clusters.

With the unified control plane Prism Central and Prism Element, you will learn how to:

- Monitor the health and performance of a cluster
- Manage software versions
- Create and administer virtual machines
- Perform basic tasks on hardware, storage, and networking

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

## Objectives

- Understand hyperconverged infrastructure (HCI)
- Master Nutanix administration tools
- Configure and manage AOS storage resources
- Administer virtual networks under the AHV hypervisor
- Manage the entire lifecycle of virtual machines
- Implement a data protection strategy
- Ensure the cluster remains in operational condition (MCO)
- Diagnose and resolve common incidents

## Target audience

- Data center operations technicians
- IT project managers
- Virtu administrators or IT engineers new to Nutanix
- Anyone wishing to prepare for Nutanix Certified Associate (NCA) certification

## Prerequisites

- Familiarity with traditional storage virtualization architectures.
- Unix/Linux command line skills.

## Our Nutanix® Cloud Professional training program

[Day 1 - Morning]

### Introduction

- Understanding three-tier and hyperconverged (HCI) architectures
- Discover Nutanix cloud solution packages
- Getting started with Prism Central and Prism Element
- Understanding Nutanix Pulse
- Knowing when to use Prism Central or Prism Element
- Basics of cluster configuration
- Cluster-level security settings
- Hands-on exercises
  - Accessing and exploring Prism Element and Prism Central
  - Choosing the right tool for the use case

[Day 1 - Afternoon]

### Hardware and storage concepts

- Understanding nodes, blocks, and clusters
- Types of physical storage
- How AOS distributed storage works
- Key concepts: storage pools, containers, redundancy factors and replication, capacity reservation, cluster resilience, snapshots
- Using Prism dashboards to monitor hardware and storage
- Hands-on
  - Exploring hardware and storage dashboards
  - Creating a storage container

### Networking

- AHV network terminology
- Managed and unmanaged networks
- Network monitoring via Prism Central
- Network visualization via Network Visualizer in Prism Element
- Practical exercises
  - Viewing the network configuration
  - Using Network Visualizer

## [Day 2 - Morning]

### Image management

- Understanding the image service
- Monitoring, importing, and managing images with Prism Central
- Hands-on exercises
  - Exploring the image dashboard
  - Importing an image into Prism Central
  - Uploading an image via Prism Element

## [Day 2 - Afternoon]

### Managing virtual machines

- Creating and supervising VMs with Prism Central
- Common tasks: updating, deleting, exporting, cloning
- Snapshots and restore points
- Categories and affinity policies
- Hands-on exercises
  - Exploring the VM dashboard
  - VM creation
  - Creating a restore point
  - Cloning a VM
  - Exporting a VM in OVA format

### Backup and disaster recovery

- Data protection strategies
- Snapshots and recovery points
- Using the Data Protection dashboard
- Creating protection domains and remote sites
- Key concepts of Nutanix disaster recovery
- Hands-on exercises
  - Creating protection domains
  - Local VM restoration
  - Configuring remote sites
  - VM migration

## [Day 3 - Morning]

## Monitoring cluster performance and health

- Creating sessions, graphs, and reports
- Alert and event management
- Configuring email notifications
- Log collection
- Creating a ticket via the Nutanix support portal
- Practical exercises
  - Adding graphs to the Analysis table
  - Creating custom graphs
  - Creating and scheduling reports
  - Monitoring cluster health
  - Collecting logs

## [Day 3 - Afternoon] Licenses

### and upgrades

- How the License Manager works
- Viewing licenses in Prism and on the Support & Insights portal
- Assigning licenses to a cluster
- Understanding the Life Cycle Manager (LCM) and its workflow
- Using the LCM Dashboard
- Software inventory via LCM
- Hands-on exercises
  - Exploring the LCM dashboard
  - Inventory on connected and isolated sites
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## Companies concerned

This training is intended for both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific professional knowledge or modern methods.

## Positioning at the start of training

The placement test at the start of the training course complies with Qualiopi quality criteria. Once they have finalized their registration, learners receive a self-assessment questionnaire that allows us to gauge their estimated level of proficiency in different types of technologies, as well as their expectations and personal goals for the upcoming training course, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

## Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format

to all participants.

## Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

## Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

## Certification

A certificate will be issued to each trainee who has completed the entire training course.