

# Nutanix Unified Storage Administration (NUSA)

## COURSE OVERVIEW

This course teaches you the administrative skills needed to install, configure, manage, and upgrade three different Nutanix unified storage products:

- Nutanix Volumes - Learn how Nutanix Volumes provides block storage for your VMs or physical hosts using the iSCSI protocol, with the same simplicity as virtualized workloads, consolidating infrastructure into a single unified platform.
- Nutanix Files - Set up and manage Nutanix Files, a software-defined, scale-out file storage solution that provides Server Message Block (SMB) and Network File System (NFS) file services to clients.
- Nutanix Objects - Learn how easy it is to spin up Nutanix Objects in a few simple steps, and build a simple, secure, and scale-out stack.

## WHO WILL BENEFIT FROM THIS COURSE?

- Systems operators evaluating file, block, and object storage using Nutanix Files, Nutanix Volumes, and Nutanix Objects.
- IT administrators and business leaders who manage Nutanix clusters and want a detailed deep dive into Nutanix storage administration.
- Anyone pursuing Nutanix Certified Professional – Unified Storage (NCP-US) certification.

## PREREQUISITES

- This course requires basic system administration knowledge, acquired through training or hands-on experience.
- You should be familiar with iSCSI, SMB, NFS storage protocols, and S3 compatible storage; be able to create a VM through the Nutanix web console (Prism); and know how to run commands from the command line interface (CLI).
- An understanding of Nutanix core concepts and definitions, which can be found [here](#).
- If you do not have these skills, we recommend taking the Nutanix Hybrid Cloud Fundamentals (NHCF) class first.

## COURSE OUTLINE

### Installing and Configuring Nutanix Volumes

- Understanding When to Use Nutanix Volumes
- Deploying Nutanix Volumes and Understanding iSCSI Target Redirection
- Configuring Nutanix Volumes

### Managing, Upgrading, and Monitoring Nutanix Volumes

- Failover and Failback Processes
- Understanding Storage Management and Using the Storage and Volume Groups Dashboards
- Modifying a Volume Group



#### Analyzing and Optimizing Nutanix Volumes

- Firewall Settings
- IQNs/Allowlists
- iSCSI Timeout Sessions
- Troubleshooting Volume Group Capacity

#### Nutanix Volumes: Hands on Labs

- Preparing the Cluster
- Configuring Volumes for Windows and Linux
- Managing Volumes for Windows and Linux
- Configuring iSCSI Network Segmentation (Optional)

#### Installing and Configuring Nutanix Files

- Introduction to Nutanix Files
- Architecting and Sizing Nutanix Files Environments
- Installing Nutanix Files
- The File Server Dashboard
- Configuring Nutanix Files

#### Managing, Upgrading, and Monitoring Nutanix Files

- Managing Nutanix Files
- Using File Analytics
- Using Data Lens and Smart DR
- Monitoring Performance and Usage
- Upgrading Nutanix Files

#### Analyzing and Optimizing Nutanix Files

- Understanding the Nutanix Files High Availability Process
- Troubleshooting Nutanix Files Issues

#### Nutanix Files: Hands on Labs

- Installing Nutanix Files
- Managing File Shares and Exports with the Files Console
- Working with File Analytics
- Deleting Nutanix Files

#### Deploying and Configuring Nutanix Objects

- Introduction to Nutanix Objects
- Enabling Nutanix Objects
- Architecting and Sizing Nutanix Objects
- Deploying and Configuring Nutanix Objects
- Configuring Bucket Policies

#### Managing, Upgrading, and Monitoring Nutanix Objects

- Managing Directories and API Keys
- Managing the Object Store
- Managing a Bucket
- Upgrading Nutanix Objects Using LCM
- Monitoring Nutanix Objects
- Replication with Nutanix Objects
- Cloud Tiering



#### Analyzing and Troubleshooting Nutanix Objects

- Troubleshooting Issues with Cluster Deployment, Read/Write, Upgrades, and Objects/MSP Clusters using CLI Commands
- Log Collection for Nutanix Objects

#### Nutanix Objects: Hands on Labs

- Configuring Nutanix Objects
- Managing Nutanix Objects

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