

# Nutanix Unified Storage Administration (NUSA)

## Summary:

Formats: Instructor-Led Training with Hands-on-labs

Length: 2 Days

## 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.

## Audience

- 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.

## Software Versions

- Nutanix Objects 3.5
- Nutanix Files 4.2.0
- File Analytics 3.2.0
- AOS 6.5
- Prism Central 2022.6

## Course Outline

### 1: Installing and Configuring Nutanix Volumes

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

### 2: 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

### 3: 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)

### 4: 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

### 5: 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

### 6: 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

## 7: 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

## 8: 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

## 9: 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

## Related Certification

### Nutanix Certified Professional - Unified Storage (NCP-US)

The Nutanix Certified Professional – Unified Storage (NCP-US) certification validates your skills and abilities to deploy, configure, optimize, troubleshoot, and perform administrative tasks on the Nutanix Unified Storage technologies: Files, Objects, and Volumes.

A candidate for the NCP-US certification has approximately 1-2 years of general IT experience, with 6-12 months of data storage experience. They are typically IT professionals and IT architects who are capable of deploying, configuring, optimizing, troubleshooting, and performing administrative tasks on the Nutanix Enterprise Cloud Unified Storage services: Files, Objects, and Volumes technologies.