Nutanix Unified Storage Administration (NUSA)

Duration: 2 Days Course Code: NUSA

Overview:

This course teaches you the administrative skills needed to install, configure, manage, and upgrade three different Nutanix unified storage products: Nutanix Volumes, Nutanix Files and Nutanix Objects.
This course teaches the administrative skills required to install, configure, manage, and upgrade Nutanix Unified Storage solutions. Participants learn how to work with Nutanix Volumes, Nutanix Files, and Nutanix Objects, covering block, file, and object storage services within the Nutanix platform. The course focuses on day-to-day storage administration tasks, monitoring, optimization, and troubleshooting, and includes hands-on labs to reinforce key concepts using the Nutanix management tools.

NB: An exam voucher is included with this training.

Updated on 21/05/2026

Target Audience:

The primary audience for this course is as follows:
- 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.

Objectives:

- 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 use Nutanix Objects, a software-defined, scale-out object storage solution that provides a scalable repository for unstructured data.

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 Enterprise Cloud Administration (ECA) class first.

Testing and Certification

Nutanix will share an exam voucher after the course, validity 6 months.

Nutanix Certified Professional - Unified Storage (NCP-US)

Content:

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
- Viewing Volume Group Metrics
- Storage Management
- 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 (Windows and Linux)
- Enabling iSCSI
- Configuring a Volume Group with CHAP Authentication
- Volume Group Metrics
- Adding a Disk to a Volume Group
- Configuring a Volume Group for Internal VM Access
- Growing a Disk in a Volume Group
- Removing iSCSI Volume Groups - External Access iSCSI
- Removing iSCSI Volume Groups - Internal Access iSCSI

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
- Cloning File Servers, Encrypting Data, and Blocking Files

5: Managing, Upgrading, and Monitoring Nutanix Files

- Managing Nutanix Files
- Directory and User Management
- Working with Quotas
- Synchronizing Data Across Multiple Locations
- Using File Analytics
- Using Data Lens and Smart DR
- Optimizing File Servers
- Upgrading Nutanix Files

6: Analyzing and Optimizing Nutanix Files

- Understanding the Nutanix Files High Availability Process
- Investigating Issues with Nutanix Files
- Nutanix Files: Hands-on Labs
- Creating and Mounting a Standard Share
- Deleting Nutanix Files
- Deploying File Analytics
- Installing a Nutanix File Server
- Creating a Distributed Share
- Exploring Nutanix Files
- File Analytics File System Scan
- Creating an NFS Share
- Exploring the Nutanix Files Console
- File Analytics Anomaly Rules
- Configuring Access to an NFS Share
- Files Multi-Protocol
- Managing File Share Permissions with MMC
- Upgrading Nutanix Files

7: Deploying and Configuring Nutanix Objects

- Introduction to Nutanix Objects
- Nutanix Objects Architecture
- Enabling 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
- Monitoring Nutanix Objects
- Data Lens for Nutanix Objects
- Replication with Nutanix Objects
- Cloud Tiering
- Upgrading Nutanix Objects Using LCM

9: Analyzing and Troubleshooting Nutanix Objects

- Investigating Issues with Cluster Deployment, Read/Write, Upgrades, Cloud Tiering, and Replication
- Log Collection for Nutanix Objects
- Nutanix Objects: Hands-on Labs
- Creating Buckets
- Adding Users and Generating Encrypted Keys
- Using the Objects Browser
- Object Versioning
- Sharing Buckets
- Managing Buckets with an S3 Application
- Objects Multi-Protocol
- Enabling Nutanix Objects and Creating an Object Store

Additional Information:

Software:
- Nutanix Objects
- Nutanix Files
- File Analytics
- AOS
- Prism Central

Terms and Conditions:
Customer must purchase training seats in advance of scheduling course dates.
Customer may not cancel purchased training seats and all amounts paid are non-refundable.
Customer may reschedule courses with no less than 15 business days written notice to Nutanix. Rescheduling fees may apply.
Customer may substitute a student with no less than 5 business days written notice to Nutanix. Rescheduling fees do not apply to substitutions.
Training seats must be consumed within 12 months of purchase. Failure to utilize the training seats within the 12 months of purchase shall result in forfeiture of all fees paid for such seats. Extensions may be available on a case by case basis.
Most of our Authorized Training Partners (ATPs) have a 10-business-day cancellation and/or reschedule policy. If customer cancels or reschedules within those 10 business days, fees may apply
up to the full price of the seat.
Nutanix reserves the right to cancel any scheduled course due to minimum enrollment not being achieved, instructor illness, or other events outside of its control.
Cancellation notices will be sent to enrolled students by email with rescheduling information and alternative training options.

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK