# NCP-US-6.5 Latest Mock Test - Quiz First-grade NCP-US-6.5 Nutanix Certified Professional - Unified Storage (NCP-US) v6.5 Questions Exam



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## Nutanix NCP-US-6.5 Exam Syllabus Topics:

| Topic | Details |
|---|---|
| Topic 1 | • Configure and Utilize Nutanix Unified Storage<br>• Identify the steps to deploy Nutanix Objects |
| Topic 2 | • Deploy and Upgrade Nutanix Unified Storage<br>• Perform upgrades<br>• maintenance for Files<br>• Objects implementations |

| Topic 3 | • Troubleshoot issues related to Nutanix Files<br>• Explain Data Management processes for Files and Objects |
| --- | --- |
| Topic 4 | • Configure Nutanix Files with advanced features<br>• Determine the appropriate method to ensure data availability<br>• recoverability |
| Topic 5 | • Analyze and Monitor Nutanix Unified Storage<br>• Describe the use of Data Lens for data security |
| Topic 6 | • Configure Nutanix Objects<br>• Describe how to monitor performance and usage |
| Topic 7 | • Given a scenario, configure shares, buckets, and<br>• or Volume Groups<br>• Troubleshoot a failed upgrade for Files<br>• Objects |

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# Nutanix NCP-US-6.5 Questions Exam | Latest NCP-US-6.5 Test Vce

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# Nutanix Certified Professional - Unified Storage (NCP-US) v6.5 Sample Questions (Q66-Q71):

**NEW QUESTION # 66**
A team of developers are working on a new processing application and requires a solution where they can upload the ... code for testing API calls. Older iterations should be retained as newer code is developer and tested.

- **A. Create a bucket in Objects with Versioning enabled.**
- B. Create an NFS Share, mounted on a Linux Server with Files.
- C. Create an SMB Share with Files and enable Previous Version
- D. Provision a Volume Group and connect via iSCSI with MPIO.

**Answer: A**

Explanation:
Nutanix Objects supports versioning, which is a feature that allows multiple versions of an object to be preserved in the same bucket. Versioning can be useful for developers who need to upload their code for testing API calls and retain older iterations as newer code is developed and tested. Versioning can also provide protection against accidental deletion or overwrite of objects. References: Nutanix Objects Administration Guide The development team needs a solution to upload code via API calls while retaining older versions of the code as newer versions are developed. This use case aligns with versioned object storage, which supports API- based uploads (e.g., S3 APIs) and automatic versioning.
Analysis of Options:
* Option A (Create a bucket in Objects with Versioning enabled): Correct. Nutanix Objects, part of Nutanix Unified Storage (NUS), provides S3-compatible object storage. It supports versioning, which allows multiple versions of an object to be retained when new versions are uploaded. The S3 API is ideal for programmatic uploads via API calls, meeting the developers' requirement to upload code for testing while retaining older iterations.
* Option B (Create an SMB Share with Files and enable Previous Versions): Incorrect. Nutanix Files supports SMB shares with the Previous Versions feature (via Self-Service Restore), which allows users to access earlier versions of files. However, SMB is not typically accessed via API calls-it's designed for file sharing over a network (e.g., Windows clients). This does not align with the

requirement for API-based uploads.
* Option C (Provision a Volume Group and connect via iSCSI with MPIO): Incorrect. Nutanix Volumes provides block storage via iSCSI, which is suitable for applications requiring low-level storage access (e.g., databases). However, iSCSI does not support API-based uploads or versioning, making it unsuitable for the developers' needs.
* Option D (Create an NFS Share mounted on a Linux Server with Files): Incorrect. An NFS share in Nutanix Files allows file access over the NFS protocol, which can be mounted on a Linux server. While NFS supports file storage, it does not natively provide versioning, and NFS is not typically accessed via API calls for programmatic uploads.
Why Option A is the Best Solution:
* Nutanix Objects with Versioning: Objects supports S3 APIs, which are widely used for programmatic uploads in development workflows. Enabling versioning ensures that older versions of the code are retained automatically when new versions are uploaded, meeting the requirement to retain older iterations.
* API Support: The S3 API is a standard for API-based uploads, making it ideal for the developers' workflow.
* Scalability: Objects is designed for scalable object storage, suitable for development and testing environments.
Exact Extract from Nutanix Documentation:
From the Nutanix Objects Administration Guide (available on the Nutanix Portal):
"Nutanix Objects supports versioning for buckets, allowing multiple versions of an object to be retained.
When versioning is enabled, uploading a new version of an object preserves the previous versions, which can be accessed or restored via S3 API calls. This feature is ideal for development workflows where older iterations of files need to be retained."
:
Nutanix Objects Administration Guide, Version 4.0, Section: "Bucket Versioning" (Nutanix Portal).
Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix Objects Features".

## NEW QUESTION # 67
Which two prerequisites are needed when deploying Objects to a Nutanix cluster? (Choose two.)

- A. Microsegmentation is enabled.
- B. Data Services IP is configured on the PI
- C. DNS is configured on the PE.
- D. AHV IPAM is disabled on the VLAN used for Objects.

**Answer: B**

Explanation:
Nutanix Objects requires a Data Services IP to be configured on the Prism Infrastructure (PI) cluster, which is used to expose the S3 API endpoint for accessing buckets and objects. Nutanix Objects also requires AHV IP Address Management (IPAM) to be disabled on the VLAN used for Objects, as Objects uses its own DHCP service to assign IP addresses to the Objects VMs1.
Reference: Nutanix Objects Administration Guide1

## NEW QUESTION # 68
An administrator is tasked with performing an upgrade to the latest Objects version.
What should the administrator do prior to upgrade Objects Manager?

- A. Upgrade Lifecycle Manager
- B. Upgrade Objects service
- C. Upgrade AOS
- D. Upgrade MSP

**Answer: C**

Explanation:
Before upgrading Objects Manager, the administrator must upgrade AOS to the latest version. AOS is the core operating system that runs on each node in a Nutanix cluster and provides the foundation for Objects Manager and Objects service. Upgrading AOS will ensure compatibility and stability for Objects components.
References: Nutanix Objects Administration Guide, Acropolis Operating System Upgrade Guide

## NEW QUESTION # 69
Workload optimization on Files is configured on which entity?

- A. File Server
- B. Share
- C. Container
- D. Volume

**Answer: A**

Explanation:
Workload optimization in Nutanix Files, part of Nutanix Unified Storage (NUS), involves tuning the Files deployment to handle specific workloads efficiently. This was previously discussed in Question 13, where workload optimization was based on FSVM quantity. The question now asks which entity workload optimization is configured on.
Analysis of Options:
* Option A (Volume): Incorrect. Volumes in Nutanix refer to block storage provided by Nutanix Volumes, not Nutanix Files. Workload optimization for Files does not involve Volumes, which are a separate entity for iSCSI-based storage.
* Option B (Share): Incorrect. Shares in Nutanix Files are the individual file shares (e.g., SMB, NFS) accessed by clients. While shares can be tuned (e.g., quotas, permissions), workload optimization in Files is not configured at the share level-it applies to the broader file server infrastructure.
* Option C (Container): Incorrect. Containers in Nutanix are logical storage pools managed by AOS, used to store data for VMs, Files, and other services. While Files data resides in a container, workload optimization is not configured at the container level-it is specific to the Files deployment.
* Option D (File Server): Correct. Workload optimization in Nutanix Files is configured at the File Server level, which consists of multiple FSVMs (as established in Question 13). The File Server is the entity that manages all FSVMs, shares, and resources, and optimization tasks (e.g., scaling FSVMs, adjusting resources) are applied at this level to handle workloads efficiently.
Why Option D?
Workload optimization in Nutanix Files involves adjusting resources and configurations at the File Server level, such as scaling the number of FSVMs (as in Question 13) or tuning memory and CPU for the File Server. The File Server encompasses all FSVMs and shares, making it the entity where optimization is configured to ensure the entire deployment can handle the workload effectively.
Exact Extract from Nutanix Documentation:
From the Nutanix Files Administration Guide (available on the Nutanix Portal):
"Workload optimization in Nutanix Files is configured at the File Server level. This involves adjusting the number of FSVMs, allocating resources (e.g., CPU, memory), and tuning configurations to optimize the File Server for specific workloads."
:
Nutanix Files Administration Guide, Version 4.0, Section: "Optimizing Nutanix Files for Workloads" (Nutanix Portal).
Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix Files Performance Optimization".

**NEW QUESTION # 70**
A company is currently using Objects 3.2 with a single Object Store and a single S3 bucket that was created as a repository for their data protection (backup) application. In the near future, additional S3 buckets will be created as this was requested by their DevOps team. After facing several issues when writing backup images to the S3 bucket, the vendor of the data protection solution found the issue to be a compatibility issue with the S3 protocol. The proposed solution is to use an NFS repository instead of the S3 bucket as backup is a critical service, and this issue was unknown to the backup software vendor with no foreseeable date to solve this compatibility issue. What is the fastest solution that requires the least consumption of compute capacity (CPU and memory) of their Nutanix infrastructure?

- A. Redeploy Objects using the latest version, create a new bucket, and enable NFS v3 access.
- B. Upgrade Objects to the latest version, create a new bucket, and enable NFS v3 access.
- C. Delete the existing bucket, create a new bucket, and enable NFS v3 access.
- D. Deploy Files and create a new Share with multi-protocol access enabled.

**Answer: D**

Explanation:
The company is using Nutanix Objects 3.2, a component of Nutanix Unified Storage (NUS), which provides S3-compatible object storage. Due to an S3 protocol compatibility issue with their backup application, they need to switch to an NFS repository. The solution must be the fastest and consume the least compute capacity (CPU and memory) on their Nutanix infrastructure.
Analysis of Options:
* Option A (Delete the existing bucket, create a new bucket, and enable NFS v3 access): Incorrect.
Nutanix Objects does support NFS access for buckets starting with version 3.5 (as per Nutanix documentation), but Objects 3.2 does not have this capability. Since the company is using Objects 3.2, this option is not feasible without upgrading or redeploying Objects, which is not mentioned in this option. Even if NFS were supported, deleting and recreating buckets does not address the

compatibility issue directly and may still consume compute resources for bucket operations.
* Option B (Deploy Files and create a new Share with multi-protocol access enabled): Correct.
Nutanix Files, another component of NUS, supports NFS natively and can be deployed to create an NFS share quickly. Multi-protocol access (e.g., NFS and SMB) can be enabled on a Files share, allowing the backup application to use NFS as a repository. Deploying a Files instance with a minimal configuration (e.g., 3 FSVMs) consumes relatively low compute resources compared to redeploying or upgrading Objects, and it is the fastest way to provide an NFS repository without modifying the existing Objects deployment.
* Option C (Redeploy Objects using the latest version, create a new bucket, and enable NFS v3 access): Incorrect. Redeploying Objects with the latest version (e.g., 4.0 or later) would allow NFS v3 access, as this feature was introduced in Objects 3.5. However, redeployment is a time-consuming process that involves uninstalling the existing Object Store, redeploying a new instance, and reconfiguring buckets. This also consumes significant compute resources during the redeployment process, making it neither the fastest nor the least resource-intensive solution.
* Option D (Upgrade Objects to the latest version, create a new bucket, and enable NFS v3 access):
Incorrect. Upgrading Objects from 3.2 to a version that supports NFS (e.g., 3.5 or later) is a viable solution, as it would allow enabling NFS v3 access on a new bucket. However, upgrading Objects involves downtime, validation, and potential resource overhead during the upgrade process, which does not align with the requirement for the fastest solution with minimal compute capacity usage.
Why Option B is the Fastest and Least Resource-Intensive:
* Nutanix Files Deployment: Deploying a new Nutanix Files instance is a straightforward process that can be completed in minutes via Prism Central or the Files Console. A minimal Files deployment (e.g.,
3 FSVMs) requires 4 vCPUs and 12 GiB of RAM per FSVM (as noted in Question 2), totaling 12 vCPUs and 36 GiB of RAM. This is a relatively low resource footprint compared to redeploying or upgrading an Objects instance, which may require more compute resources during the process.
* NFS Support: Nutanix Files natively supports NFS, and enabling multi-protocol access (NFS and SMB) on a share is a simple configuration step that does not require modifying the existing Objects deployment.
* Speed: Deploying Files and creating a share can be done without downtime to the existing Objects setup, making it faster than upgrading or redeploying Objects.
Exact Extract from Nutanix Documentation:
From the Nutanix Files Deployment Guide (available on the Nutanix Portal):
"Nutanix Files supports multi-protocol access, allowing shares to be accessed via both NFS and SMB protocols. To enable NFS access, deploy a Files instance and create a share with multi-protocol access enabled. A minimal Files deployment requires 3 FSVMs, each with 4 vCPUs and 12 GiB of RAM, ensuring efficient resource usage." From the Nutanix Objects Administration Guide (available on the Nutanix Portal):
"Starting with Objects 3.5, NFS v3 access is supported for buckets, allowing them to be mounted as NFS file systems. This feature is not available in earlier versions, such as Objects 3.2."
:
Nutanix Files Deployment Guide, Version 4.0, Section: "Deploying Nutanix Files and Configuring Shares" (Nutanix Portal).
Nutanix Objects Administration Guide, Version 4.0, Section: "NFS Access for Buckets" (Nutanix Portal).
Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix Files and Objects Comparison".


**NEW QUESTION # 71**

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