

# NCP-US-6.5 Pass4sure Pass Guide | New NCP-US-6.5 Test Tips



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

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Identify the steps to deploy Nutanix Files</li><li>• Given a scenario, determine product and sizing parameters</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• Utilize File Analytics for data security</li><li>• Troubleshoot Nutanix Unified Storage</li><li>• Configure Nutanix Volumes</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• Configure Nutanix Objects</li><li>• Describe how to monitor performance and usage</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• Configure Nutanix Files with advanced features</li><li>• Determine the appropriate method to ensure data availability</li><li>• recoverability</li></ul>
Topic 5	<ul style="list-style-type: none"><li>• Deploy and Upgrade Nutanix Unified Storage</li><li>• Perform upgrades</li><li>• maintenance for Files</li><li>• Objects implementations</li></ul>
Topic 6	<ul style="list-style-type: none"><li>• Analyze and Monitor Nutanix Unified Storage</li><li>• Describe the use of Data Lens for data security</li></ul>
Topic 7	<ul style="list-style-type: none"><li>• Troubleshoot issues related to Nutanix Files</li><li>• Explain Data Management processes for Files and Objects</li></ul>

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## Nutanix Certified Professional - Unified Storage (NCP-US) v6.5 Sample Questions (Q106-Q111):

### NEW QUESTION # 106

An administrator has created a distributed share on the File cluster. The administrator connects to the share using Windows Explorer and starts creating folders in the share. The administrator observes that none of the created folder can be renamed as the company naming convention requires.

How should the administrator resolve this issue?

- A. Modify the read/write permissions on the created folders.
- B. Use the Microsoft Shared Folder MMC Snapln.
- C. Use the Files MMC Snapln and rename the folders.
- D. Modify the Files shares to use the NFS protocol.

**Answer: C**

Explanation:

The administrator should resolve this issue by using the Files MMC Snap-in and renaming the folders. The Files MMC Snap-in is a tool that allows administrators to manage Files shares and exports from a Windows machine. The administrator can use the Files MMC Snap-in to connect to a distributed share or export and rename the top-level directories that are hosted by different FSVMs. Renaming the directories from Windows Explorer will not work because Windows Explorer does not recognize the distributed nature of the share or export and will try to rename all directories on the same FSVM, which will fail. Reference: Nutanix Files Administration Guide, page 35; Nutanix Files MMC Snap-in User Guide

#### NEW QUESTION # 107

The Administrator needs to review the following graphs, as displayed in the exhibit.

- \* Storage Used
- \* Open Connections
- \* Number of Files
- \* Top Shares by Current Capacity
- \* Top Shares by current Connections

Where should the administrator complete this action?

- **A. Files Console Dashboard View**
- B. Files Console Data Management View
- C. Files Console Share View
- D. Files Console Monitoring View

**Answer: A**

Explanation:

The Files Console Dashboard View provides an overview of the Files cluster performance and usage, including the following graphs:

Storage Used: Shows the total storage used by the Files cluster, including data, metadata, and snapshots.

Open Connections: Shows the number of active SMB and NFS connections to the Files cluster.

Number of Files: Shows the number of files stored in the Files cluster, excluding snapshots.

Top Shares by Current Capacity: Shows the top five shares by current capacity usage in the Files cluster.

Top Shares by Current Connections: Shows the top five shares by current connection count in the Files cluster<sup>2</sup>. Reference: Nutanix Files Administration Guide<sup>2</sup>

#### NEW QUESTION # 108

An administrator has deployed a new Files cluster within a Windows Environment.

After some days, the Files environment is not able to synchronize users with the Active Directory server anymore. The administrator observes a large time difference between the Files environment and the Active Directory Server that is responsible for the behavior. How should the administrator prevent the Files environment and the AD Server from having such a time difference in future?

- A. Use 0.pool.ntp.org as the NTP Server for the AD Server.
- **B. Use the same NTP Servers for the File environment and the AD Server.**
- C. Use 0.pool.ntp.org as the NTP Server for the Files environment.
- D. Connect to every FSVM and edit the time manually.

**Answer: B**

Explanation:

The administrator should prevent the Files environment and the AD Server from having such a time difference in future by using the same NTP Servers for the File environment and the AD Server. NTP (Network Time Protocol) is a protocol that synchronizes the clocks of devices on a network with a reliable time source. NTP Servers are devices that provide accurate time information to other devices on a network.

By using the same NTP Servers for the File environment and the AD Server, the administrator can ensure that they have consistent and accurate time settings and avoid any synchronization issues or errors. References: Nutanix Files Administration Guide, page 32; Nutanix Files Troubleshooting Guide

#### NEW QUESTION # 109

An administrator has been tasked with creating a distributed share on a single-node cluster, but has been unable to successfully

complete the task.  
Why is this task failing?

- A. File server version should be greater than 3.8.0
- **B. Distributed shares require multiple nodes.**
- C. Number of distributed shares limit reached.
- D. AOS version should be greater than 6.0.

**Answer: B**

Explanation:

A distributed share is a type of SMB share or NFS export that distributes the hosting of top-level directories across multiple FSVMs, which improves load balancing and performance. A distributed share cannot be created on a single-node cluster, because there is only one FSVM available. A distributed share requires at least two nodes in the cluster to distribute the directories. Therefore, the task of creating a distributed share on a single-node cluster will fail. References: Nutanix Files Administration Guide, page 33; Nutanix Files Solution Guide, page 8 A distributed share in Nutanix Files, part of Nutanix Unified Storage (NUS), is a share that spans multiple File Server Virtual Machines (FSVMs) to provide scalability and high availability. Distributed shares are designed to handle large-scale workloads by distributing file operations across FSVMs.

Analysis of Options:

\* Option A (File server version should be greater than 3.8.0): Incorrect. While Nutanix Files has version-specific features, distributed shares have been supported since earlier versions (e.g., Files 3.5).

The failure to create a distributed share on a single-node cluster is not due to the Files version.

\* Option B (Distributed shares require multiple nodes): Correct. Distributed shares in Nutanix Files require a minimum of three FSVMs for high availability and load balancing, which in turn requires a cluster with at least three nodes. A single-node cluster cannot support a distributed share because it lacks the necessary nodes to host multiple FSVMs, which are required for the distributed architecture.

\* Option C (AOS version should be greater than 6.0): Incorrect. Nutanix AOS (Acropolis Operating System) version 6.0 or later is not a specific requirement for distributed shares. Distributed shares have been supported in earlier AOS versions (e.g., AOS 5.15 and later with compatible Files versions). The issue is related to the cluster's node count, not the AOS version.

\* Option D (Number of distributed shares limit reached): Incorrect. The question does not indicate that the administrator has reached a limit on the number of distributed shares. The failure is due to the single-node cluster limitation, not a share count limit.

Why Option B?

A single-node cluster cannot support a distributed share because Nutanix Files requires at least three FSVMs for a distributed share, and each FSVM typically runs on a separate node for high availability. A single-node cluster can support a non-distributed (standard) share, but not a distributed share, which is designed for scalability across multiple nodes.

Exact Extract from Nutanix Documentation:

From the Nutanix Files Administration Guide (available on the Nutanix Portal):

"Distributed shares in Nutanix Files require a minimum of three FSVMs to ensure scalability and high availability. This requires a cluster with at least three nodes, as each FSVM is typically hosted on a separate node. Single-node clusters do not support distributed shares due to this requirement."

:

Nutanix Files Administration Guide, Version 4.0, Section: "Distributed Shares Requirements" (Nutanix Portal).

Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix Files Share Types".

## NEW QUESTION # 110

An administrator needs to improve the performance for Volume Group storage connected to a group of VMs with intensive I/O. Which `vg.update` `vg_name` command parameter should be used to distribute the I/O across multiple CVMs?

- A. `flash_mode=true`
- B. `load_balance_vm_attachments=enable`
- C. `flash_mode=enable`
- **D. `load_balance_vm_attachments=true`**

**Answer: D**

Explanation:

Nutanix Volumes, part of Nutanix Unified Storage (NUS), provides block storage via iSCSI to VMs and external hosts. A Volume Group (VG) in Nutanix Volumes is a collection of volumes that can be attached to VMs. For VMs with intensive I/O, performance can be improved by distributing the I/O load across multiple Controller VMs (CVMs) in the Nutanix cluster. The `vg.update` command in the Nutanix CLI (e.g., `ncli`) is used to modify Volume Group settings, including parameters that affect I/O distribution.

#### Analysis of Options:

\* Option A (flash\_mode=enable): Incorrect. The flash\_mode parameter enables flash mode for a Volume Group, which prioritizes SSDs for I/O operations to improve performance. While this can help with intensive I/O, it does not distribute I/O across multiple CVMs—it focuses on storage tiering, not load balancing.

\* Option B (load\_balance\_vm\_attachments=true): Correct. The load\_balance\_vm\_attachments=true parameter enables load balancing of VM attachments for a Volume Group. When enabled, this setting distributes the iSCSI connections from VMs to multiple CVMs in the cluster, balancing the I/O load across CVMs. This improves performance for VMs with intensive I/O by ensuring that no single CVM becomes a bottleneck.

\* Option C (load\_balance\_vm\_attachments=enable): Incorrect. While this option is close to the correct parameter, the syntax is incorrect. The load\_balance\_vm\_attachments parameter uses true or false as its value, not enable. The correct syntax is load\_balance\_vm\_attachments=true (option B).

\* Option D (flash\_mode=true): Incorrect. Similar to option A, flash\_mode=true enables flash mode for the Volume Group, prioritizing SSDs for I/O. This does not distribute I/O across multiple CVMs, as it addresses storage tiering rather than load balancing.

#### Why Option B?

The load\_balance\_vm\_attachments=true parameter in the vg.update command enables load balancing for VM attachments to a Volume Group, distributing iSCSI connections across multiple CVMs. This ensures that the I/O load from VMs with intensive I/O is balanced across the cluster's CVMs, improving performance by preventing any single CVM from becoming a bottleneck. This directly addresses the requirement to distribute I/O for better performance.

Exact Extract from Nutanix Documentation:

From the Nutanix Volumes Administration Guide (available on the Nutanix Portal):

"To improve performance for Volume Groups with intensive I/O, use the vg.update command to enable load balancing with the parameter load\_balance\_vm\_attachments=true. This setting distributes iSCSI connections from VMs across multiple CVMs in the cluster, balancing the I/O load and preventing bottlenecks."

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Nutanix Volumes Administration Guide, Version 6.0, Section: "Optimizing Performance for Volume Groups" (Nutanix Portal).

Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix Volumes Performance Tuning".

## NEW QUESTION # 111

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