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

| Topic   | Details   |
|---------|---|
| Topic 1 | <ul style="list-style-type: none"><li>• Configure Nutanix Objects</li><li>• Describe how to monitor performance and usage</li></ul>   |
| Topic 2 | <ul style="list-style-type: none"><li>• Given a scenario, configure shares, buckets, and or Volume Groups</li><li>• Troubleshoot a failed upgrade for Files</li><li>• Objects</li></ul> |

|         |  |
|---------|--|
| Topic 3 | <ul style="list-style-type: none"> <li>• Configure and Utilize Nutanix Unified Storage</li> <li>• Identify the steps to deploy Nutanix Objects</li> </ul>  |
| Topic 4 | <ul style="list-style-type: none"> <li>• Troubleshoot issues related to Nutanix Objects</li> <li>• Troubleshoot issues related to Nutanix Volumes</li> </ul>   |
| Topic 5 | <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 6 | <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 7 | <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 8 | <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 9 | <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> |

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## NCP-US-6.5 Exam Review, NCP-US-6.5 Valid Exam Fee

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## Nutanix Certified Professional - Unified Storage (NCP-US) v6.5 Sample Questions (Q87-Q92):

### NEW QUESTION # 87

An administrator sees that the Cluster drop-down or the Subnets drop-down shows empty lists or an error message when no Prism Element clusters or subnets are available for deployment, respectively. Additionally, the administrator sees that no Prism Element clusters are listed during the addition of multi-cluster to the Object Store. What would cause the Prism Element clusters or subnets to not appear in the user interface?

- A. The logged-in user does not have access to any Prism Central.
- B. The logged-in user does not have access to any subnets on the allowed Prism Central.
- C. The administrator has just created an access policy denying user access to a subnet in Prism Element.
- D. The administrator has just created an access policy granting user access to Prism Element.

**Answer: A**

Explanation:

Nutanix Objects, part of Nutanix Unified Storage (NUS), is deployed and managed through Prism Central (PC), which provides a centralized interface for managing multiple Prism Element (PE) clusters. When deploying Objects or adding multi-cluster support to an Object Store, the administrator selects a PE cluster and associated subnets from drop-down lists in the Prism Central UI. If these drop-down lists are empty or show an error, it indicates an issue with visibility or access to the clusters or subnets.

Analysis of Options:

\* Option A (The logged-in user does not have access to any Prism Central): Correct. Prism Central is required to manage Nutanix

Objects deployments and multi-cluster configurations. If the logged-in user does not have access to any Prism Central instance (e.g., due to RBAC restrictions or no PC being deployed), they cannot see any PE clusters or subnets in the UI, as Prism Central is the interface that aggregates this information. This would result in empty drop-down lists for clusters and subnets, as well as during multi-cluster addition for the Object Store.

\* Option B (The logged-in user does not have access to any subnets on the allowed Prism Central):

Incorrect. While subnet access restrictions could prevent subnets from appearing in the Subnets drop-down, this does not explain why the Cluster drop-down is empty or why no clusters are listed during multi-cluster addition. The issue is broader-likely related to Prism Central access itself-rather than subnet-specific permissions.

\* Option C (The administrator has just created an access policy granting user access to Prism Element): Incorrect. Granting access to Prism Element directly does not affect visibility in Prism Central's UI. Objects deployment and multi-cluster management are performed through Prism Central, not Prism Element. Even if the user has PE access, they need PC access to see clusters and subnets in the Objects deployment workflow.

\* Option D (The administrator has just created an access policy denying user access to a subnet in Prism Element): Incorrect. Denying access to a subnet in Prism Element might affect subnet visibility in the Subnets drop-down, but it does not explain the empty Cluster drop-down or the inability to see clusters during multi-cluster addition. Subnet access policies are secondary to the broader issue of Prism Central access.

Why Option A?

The core issue is that Prism Central is required to display PE clusters and subnets in the UI for Objects deployment and multi-cluster management. If the logged-in user does not have access to any Prism Central instance (e.g., they are not assigned the necessary role, such as Prism Central Admin, or no PC is registered), the UI cannot display any clusters or subnets, resulting in empty drop-down lists. This also explains why no clusters are listed during multi-cluster addition for the Object Store, as Prism Central is the central management point for such operations.

Exact Extract from Nutanix Documentation:

From the Nutanix Objects Deployment Guide (available on the Nutanix Portal):

"Nutanix Objects deployment and multi-cluster management are performed through Prism Central. The logged-in user must have access to Prism Central with appropriate permissions (e.g., Prism Central Admin role) to view Prism Element clusters and subnets in the deployment UI. If the user does not have access to Prism Central, the Cluster and Subnets drop-down lists will be empty, and multi-cluster addition will fail to list available clusters."

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Nutanix Objects Deployment Guide, Version 4.0, Section: "Prism Central Requirements for Objects Deployment" (Nutanix Portal).  
Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix Objects Multi-Cluster Management".

## NEW QUESTION # 88

An administrator is upgrading Files from version 3.7 to 4.1 in a highly secured environment. The pre-upgrade check fails with the following error:

"FileServer preupgrade check failed with cause(s) Sub task poll timed out" What initial troubleshooting step should the administrator take?

- A. Increase upgrades timeout from ecli.
- B. Examine the failed tasks on the FSVMs.
- C. Check there is enough disk space on FSVMs.
- **D. Verify connectivity between the FSVMs.**

**Answer: D**

Explanation:

Nutanix Files, part of Nutanix Unified Storage (NUS), requires pre-upgrade checks to ensure a successful upgrade (e.g., from version 3.7 to 4.1). The error "Sub task poll timed out" indicates that a subtask during the pre-upgrade check did not complete within the expected time, likely due to communication or resource issues among the File Server Virtual Machines (FSVMs).

Analysis of Options:

\* Option A (Increase upgrades timeout from ecli): Incorrect. The ecli (Entity CLI) is not a standard Nutanix command-line tool for managing upgrades, and "upgrades timeout" is not a configurable parameter in this context. While timeouts can sometimes be adjusted, this is not the initial troubleshooting step, and the error suggests a deeper issue (e.g., communication failure) rather than a timeout setting.

\* Option B (Check there is enough disk space on FSVMs): Incorrect. While insufficient disk space on FSVMs can cause upgrade issues (e.g., during the upgrade process itself), the "Sub task poll timed out" error during pre-upgrade checks is more likely related to communication or task execution issues between FSVMs, not disk space. Disk space checks are typically part of the pre-upgrade validation, and a separate error would be logged if space was the issue.

\* Option C (Examine the failed tasks on the FSVMs): Incorrect. Examining failed tasks on the FSVMs (e.g., by checking logs) is a valid troubleshooting step, but it is not the initial step. The "Sub task poll timed out" error suggests a communication issue, so

verifying connectivity should come first. Once connectivity is confirmed, examining logs for specific task failures would be a logical next step.

\* Option D (Verify connectivity between the FSVMs): Correct. The "Sub task poll timed out" error indicates that the pre-upgrade check could not complete a subtask, likely because FSVMs were unable to communicate with each other or with the cluster. Nutanix Files upgrades require FSVMs to coordinate tasks, and this coordination depends on network connectivity (e.g., over the Storage and Client networks). Verifying connectivity between FSVMs (e.g., checking network status, VLAN configuration, or firewall rules in a highly secured environment) is the initial troubleshooting step to identify and resolve the root cause of the timeout. Why Option D?

In a highly secured environment, network restrictions (e.g., firewalls, VLAN misconfigurations) are common causes of communication issues between FSVMs. The "Sub task poll timed out" error suggests that the pre-upgrade check failed because a task could not complete, likely due to FSVMs being unable to communicate.

Verifying connectivity between FSVMs is the first step to diagnose and resolve this issue, ensuring that subsequent pre-upgrade checks can proceed.

Exact Extract from Nutanix Documentation:

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

"If the pre-upgrade check fails with a 'Sub task poll timed out' error, this typically indicates a communication issue between FSVMs. As an initial troubleshooting step, verify connectivity between the FSVMs, ensuring that the Storage and Client networks are properly configured and that there are no network restrictions (e.g., firewalls) preventing communication."

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Nutanix Files Administration Guide, Version 4.0, Section: "Troubleshooting Files Upgrades" (Nutanix Portal).

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

## NEW QUESTION # 89

An administrator has been tasked with updating the cool-off interval of an existing WORM share from the default value to five minutes. How should the administrator complete this task?

- A. Update the worm\_cooloff\_interval parameter using CLI.
- B. Contact support to update the WORM share.
- C. Use FSM to update the worm\_cooloff\_interval parameter.
- D. Delete and re-create the WORM share.

**Answer: A**

Explanation:

Nutanix Files, part of Nutanix Unified Storage (NUS), supports WORM (Write Once, Read Many) shares to enforce immutability for compliance and data retention. A WORM share prevents files from being modified or deleted for a specified retention period. The "cool-off interval" (or cool-off period) is the time after a file is written to a WORM share during which it can still be modified or deleted before becoming immutable. The default cool-off interval is typically 1 minute, and the administrator wants to update it to 5 minutes.

Analysis of Options:

\* Option A (Delete and re-create the WORM share): Incorrect. Deleting and re-creating the WORM share would remove the existing share and its data, which is disruptive and unnecessary. The cool-off interval can be updated without deleting the share, making this an inefficient and incorrect approach.

\* Option B (Update the worm\_cooloff\_interval parameter using CLI): Correct. The worm\_cooloff\_interval parameter controls the cool-off period for WORM shares in Nutanix Files. This parameter can be updated using the Nutanix CLI (e.g., ncli or afs commands) on the file server. The administrator can log into an FSV, use the CLI to set the worm\_cooloff\_interval to 5 minutes (300 seconds), and apply the change without disrupting the share. This is the most direct and efficient method to update the cool-off interval.

\* Option C (Contact support to update the WORM share): Incorrect. Contacting Nutanix support is unnecessary for this task, as updating the cool-off interval is a standard administrative action that can be performed using the CLI. Support is typically needed for complex issues, not for configurable parameters like this.

\* Option D (Use FSM to update the worm\_cooloff\_interval parameter): Incorrect. FSM (File Server Manager) is not a standard Nutanix tool or interface for managing Files configurations. The correct method is to use the CLI (option B) to update the worm\_cooloff\_interval parameter. While the Files Console (FSM-like interface) can manage some share settings, the cool-off interval requires CLI access.

Why Option B?

The worm\_cooloff\_interval parameter is a configurable setting in Nutanix Files that controls the cool-off period for WORM shares. Updating this parameter via the CLI (e.g., using ncli or afs commands on an FSV) allows the administrator to change the cool-off interval from the default (1 minute) to 5 minutes without disrupting the existing share. This is the recommended and most efficient method per Nutanix documentation.

Exact Extract from Nutanix Documentation:

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

"The cool-off interval for a WORM share, which determines the time after a file is written during which it can still be modified, is controlled by the `worm_cooloff_interval` parameter. To update this interval, use the CLI on an FSVM to set the parameter (e.g., to 300 seconds for 5 minutes) using commands like `ncli` or `afs`, then apply the change."

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Nutanix Files Administration Guide, Version 4.0, Section: "Configuring WORM Shares" (Nutanix Portal).

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

## NEW QUESTION # 90

An administrator is leveraging Smart DR to protect a Files share. There is a requirement that in the event of a failure, client redirection should be seamless. How should the administrator satisfy this requirement?

- A. Enable redirection in the protection policy.
- B. Create a reverse replication policy.
- C. Update the AD and DNS entries.
- D. Activate protected shares on the recovery site.

**Answer: C**

Explanation:

Smart DR in Nutanix Files, part of Nutanix Unified Storage (NUS), automates disaster recovery (DR) by replicating shares between primary and recovery file servers (e.g., using NearSync, as in Question 24). The administrator is using Smart DR to protect a Files share and needs seamless client redirection in the event of a failure, meaning clients should automatically connect to the recovery site without manual intervention.

Understanding the Requirement:

\* Smart DR Protection: Smart DR replicates the Files share from the primary site to the recovery site, typically with the primary site in read-write (RW) mode and the recovery site in read-only (RO) mode (as seen in the exhibit for Question 24).

\* Seamless Client Redirection: In a failure scenario (e.g., primary site down), clients should automatically redirect to the recovery site without needing to reconfigure their connections (e.g., changing the share path or IP address).

\* Files Share Context: Clients typically access Files shares via SMB or NFS, using a hostname or IP address (e.g., `\fileserver\share` for SMB or `fileserver/share` for NFS).

Analysis of Options:

\* Option A (Create a reverse replication policy): Incorrect. A reverse replication policy would replicate data from the recovery site back to the primary site, typically used after failover to prepare for failback. This does not address seamless client redirection during a failure—it focuses on data replication direction, not client connectivity.

\* Option B (Enable redirection in the protection policy): Incorrect. Smart DR protection policies define replication settings (e.g., RPO, schedule), but there is no "redirection" setting in the policy itself.

Client redirection in Nutanix Files DR scenarios is managed through external mechanisms like DNS, not within the protection policy.

\* Option C (Update the AD and DNS entries): Correct. Seamless client redirection in Nutanix Files DR scenarios requires that clients can automatically connect to the recovery site without changing their share paths. This is achieved by updating Active Directory (AD) and DNS entries:

\* DNS Update: The hostname of the file server (e.g., `fileserver.company.com`) should resolve to the IP address of the primary site's File Server under normal conditions. During a failure, DNS is updated to point to the recovery site's File Server IP address (e.g., the Client network IP of the recovery FSVMs). This ensures clients automatically connect to the recovery site without changing the share path (e.g., `\fileserver.company.com\share` continues to work).

\* AD Update: For SMB shares, the Service Principal Name (SPN) in AD must be updated to reflect the recovery site's File Server, ensuring Kerberos authentication works seamlessly after failover. This approach ensures clients are redirected without manual intervention, meeting the "seamless" requirement.

\* Option D (Activate protected shares on the recovery site): Incorrect. Activating protected shares on the recovery site (e.g., making them RW during failover) is a necessary step for failover, but it does not ensure seamless client redirection. Without updating DNS/AD, clients will not know to connect to the recovery site—they will continue trying to access the primary site's IP address, requiring manual reconfiguration (e.g., changing the share path), which is not seamless.

Why Option C?

Seamless client redirection in a Nutanix Files DR scenario requires that clients can connect to the recovery site without changing their share paths. Updating AD and DNS entries ensures that the file server's hostname resolves to the recovery site's IP address after failover, and AD authentication (e.g., Kerberos for SMB) continues to work. This allows clients to automatically redirect to the recovery site without manual intervention, fulfilling the requirement for seamlessness.

Exact Extract from Nutanix Documentation:



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

"To ensure seamless client redirection during a Smart DR failover, update Active Directory (AD) and DNS entries. Configure DNS to resolve the file server's hostname to the recovery site's File Server IP address after failover, and update the Service Principal Name (SPN) in AD to ensure Kerberos authentication works for SMB clients. This allows clients to automatically connect to the recovery site without manual reconfiguration."

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Nutanix Files Administration Guide, Version 4.0, Section: "Smart DR Failover and Client Redirection" (Nutanix Portal).

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

### NEW QUESTION # 91

With the settings shown on the exhibit, if there were 1000 files in the repository, how many files would have to be... anomaly alert to the administrator?

- A. 0
- B. 1
- C. 2
- **D. 3**

**Answer: D**

Explanation:

With the settings shown on the exhibit, if there were 1000 files in the repository, 10 files would have to be deleted within an hour to trigger an anomaly alert to the administrator. Anomaly alert is a feature that notifies the administrator when there is an unusual or suspicious activity on file data, such as mass deletion or encryption. Anomaly alert can be configured with various parameters, such as threshold percentage, time window, minimum number of files, and so on. In this case, the threshold percentage is set to 1%, which means that if more than 1% of files in a repository are deleted within an hour, an anomaly alert will be triggered.

Since there are 1000 files in the repository, 1% of them is 10 files. Therefore, if 10 or more files are deleted within an hour, an anomaly alert will be sent to the administrator. References: Nutanix Files Administration Guide, page 98; Nutanix Data Lens User Guide

### NEW QUESTION # 92

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