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## Storage (NCP-US) v6.5

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### Nutanix Certified Professional - Unified Storage (NCP-US) v6.5 Sample Questions (Q112-Q117):

#### NEW QUESTION # 112

An administrator is looking for a tool that includes these features:

- \* Permission Denials
- \* Top 5 Active Users
- \* Top 5 Accessed Files
- \* File Distribution by Type

Nutanix tool should the administrator choose?

- A. **File Analytics**
- B. Prism Central
- C. Files Console
- D. File Server Manager

#### Answer: A

Explanation:

The tool that includes these features is File Analytics. File Analytics is a feature that provides insights into the usage and activity of file data stored on Files. File Analytics consists of a File Analytics VM (FAVM) that runs on a Nutanix cluster and communicates with the File Server VMs (FSVMs) that host the file shares. File Analytics can display various reports and dashboards that include these features:

- \* Permission Denials: This report shows the number of permission denied events for file operations, such as read, write, delete, etc., along with the user, file, share, and server details.
- \* Top 5 Active Users: This dashboard shows the top five users who performed the most file operations in a given time period, along with the number and type of operations.
- \* Top 5 Accessed Files: This dashboard shows the top five files that were accessed the most in a given time period, along with the number of accesses and the file details.
- \* File Distribution by Type: This dashboard shows the distribution of files by their type or extension, such as PDF, DOCX, JPG, etc., along with the number and size of files for each type. References:

Nutanix Files Administration Guide, page 93; Nutanix File Analytics User Guide

#### NEW QUESTION # 113

An administrator is planning to upgrade all ESXi hypervisors in a cluster hosting Files.

When performing one-click hypervisor upgrades, what prerequisite must be performed?

- A. Shutdown the FSVMs.
- **B. Disable the anti-affinity rules on all FSVMs.**
- C. Enable the anti-affinity rules on all FSVMs.
- D. Manually migrate the FSVMs.

#### Answer: B

Explanation:

Anti-affinity rules ensure FSVMs are distributed across hosts for HA, but during a one-click hypervisor upgrade, these rules can prevent FSVMs from being migrated to other hosts when a host enters maintenance mode. Disabling the anti-affinity rules temporarily allows the upgrade to proceed by permitting FSVMs to reside on the same host during the migration process, ensuring a smooth and non-disruptive upgrade.

Exact Extract from Nutanix Documentation:

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

"When performing a one-click hypervisor upgrade on ESXi hosts hosting Nutanix Files, temporarily disable the anti-affinity rules for FSVMs. This allows FSVMs to be migrated to other hosts during the upgrade process without violating placement constraints, ensuring a non-disruptive upgrade. Re-enable the anti-affinity rules after the upgrade is complete."

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Nutanix Files Administration Guide, Version 4.0, Section: "Upgrading Hypervisors in a Files Environment" (Nutanix Portal).  
Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix Files Upgrade Considerations".

#### NEW QUESTION # 114

An organization is implementing their first Nutanix cluster. In addition to hosting VMs, the cluster will be providing block storage services to existing physical servers, as well as CIFS shares and NFS exports to the end users. Security policies dictate that separate networks are used for different functions, which are already configured as:

- \* Management - VLAN 500 - 10.10.50.0/24
- \* iSCSI - VLAN 510 - 10.10.51.0/24

\* Files - VLAN 520 - 10.10.52.0/24 How should the administrator configure the cluster to ensure the iSCSI traffic is on the correct network and accessible by the existing physical servers?

- A. Create a new internal interface on VLAN 510 in Network Configuration, enabling it for Volumes.
- B. Create a new virtual switch on VLAN 510 in Network Configuration, enabling it for Volumes.
- C. Configure the Data Services IP in Prism Central with an IP on VLAN 510.
- D. **Configure the Data Services IP in Prism Element with an IP on VLAN 510.**

#### Answer: D

Explanation:

The organization is deploying a Nutanix cluster to provide block storage services (via iSCSI), CIFS shares, and NFS exports (via Nutanix Files). Nutanix Volumes, part of Nutanix UnifiedILON Storage (NUS), is used to provide block storage to physical servers via iSCSI. The security policy requires separate networks:

- \* Management traffic on VLAN 500 (10.10.50.0/24).
- \* iSCSI traffic on VLAN 510 (10.10.51.0/24).
- \* Files traffic on VLAN 520 (10.10.52.0/24).

To ensure iSCSI traffic uses VLAN 510 and is accessible by physical servers, the cluster must be configured to route iSCSI traffic over the correct network.

The Data Services IP is the key configuration for iSCSI traffic in a Nutanix cluster. By setting this IP to an address on VLAN 510 (e.g., 10.10.51.x), the administrator ensures that iSCSI traffic is routed over the correct network. Physical servers can then connect to this IP to access block storage via iSCSI. This configuration is done in Prism Element under the cluster's iSCSI settings.

Exact Extract from Nutanix Documentation:

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

"To enable iSCSI traffic for Nutanix Volumes, configure the Data Services IP in Prism Element. This IP address is used by external hosts (e.g., physical servers) to connect to the cluster for block storage access.

Assign the Data Services IP to the appropriate VLAN for iSCSI traffic (e.g., VLAN 510) to ensure network isolation and accessibility."

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Nutanix Volumes Administration Guide, Version 6.0, Section: "Configuring iSCSI for Nutanix Volumes" (Nutanix Portal).

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

#### NEW QUESTION # 115

An administrator has received an alert A130358 - ConsistencyGroupWithStaleEntities with the following details:

- \* Block Serial Number: lesxxxxxxxx
- \* Alert Time: Thu Jan 19 2023 21:56:10 GMT-0800 (PST)
- \* Alert Type: ConsistencyGroupWithStaleEntities
- \* Alert Message: A130358:ConsistencyGroupWithStaleEntities
- \* Cluster ID: xxxx
- \* Alert Body: No alert body availableWhich scenario is causing the alert and needs to be addressed to allow the entities to be protected?

- A. The logical timestamp for one or more of the Volume Groups is not consistent between clusters.
- B. One or more VMs or Volume Groups belonging to the Consistency Group may have been deleted.
- C. One or more VMs or Volume Groups belonging to the Consistency Group is part of multiple Recovery Plans configured

with a Witness.

- D. One or more VMs or Volume Groups belonging to the Consistency Group contains stale metadata.

#### Answer: D

Explanation:

The alert A130358 - ConsistencyGroupWithStaleEntities in a Nutanix environment indicates an issue with a Consistency Group, which is used in Nutanix data protection to ensure that related entities (e.g., VMs, Volume Groups) are protected together in a consistent state. This alert specifically points to "stale entities," meaning there is a problem with the entities within the Consistency Group that prevents proper protection.

Analysis of Options:

\* Option A (One or more VMs or Volume Groups belonging to the Consistency Group contains stale metadata): Correct. The "ConsistencyGroupWithStaleEntities" alert is triggered when entities (e.g., VMs or Volume Groups) in a Consistency Group have stale metadata, meaning their metadata is outdated or corrupted. This can happen due to synchronization issues, failed operations, or manual changes that leave the metadata inconsistent with the actual state of the entity. This prevents the Consistency Group from being protected properly, as the system cannot ensure consistency.

\* Option B (One or more VMs or Volume Groups belonging to the Consistency Group may have been deleted): Incorrect. If an entity in a Consistency Group is deleted, a different alert would typically be triggered (e.g., related to a missing entity). The "StaleEntities" alert specifically refers to metadata issues, not deletion. However, deletion could indirectly cause metadata staleness if the deletion was not properly synchronized, but this is not the primary cause described by the alert.

\* Option C (The logical timestamp for one or more of the Volume Groups is not consistent between clusters): Incorrect. Inconsistent logical timestamps between clusters would typically trigger a different alert related to replication or synchronization (e.g., in Metro Availability or NearSync scenarios). The "StaleEntities" alert is specific to metadata issues within the Consistency Group on the local cluster, not a cross-cluster timestamp issue.

\* Option D (One or more VMs or Volume Groups belonging to the Consistency Group is part of multiple Recovery Plans configured with a Witness): Incorrect. Being part of multiple Recovery Plans or using a Witness (e.g., in Metro Availability) does not directly cause a "StaleEntities" alert. This scenario might cause other issues (e.g., conflicts in recovery operations), but it is not related to stale metadata within a Consistency Group.

Why Option A?

The "ConsistencyGroupWithStaleEntities" alert explicitly indicates that the entities in the Consistency Group have stale metadata, which must be resolved to allow proper protection. The administrator would need to investigate the affected VMs or Volume Groups, clear the stale metadata (e.g., by refreshing the Consistency Group or removing/re-adding the entity), and ensure synchronization with the cluster's state.

Exact Extract from Nutanix Documentation:

From the Nutanix Prism Alerts Reference Guide (available on the Nutanix Portal):

"Alert A130358 - ConsistencyGroupWithStaleEntities: This alert is triggered when one or more entities (e.g., VMs or Volume Groups) in a Consistency Group have stale metadata, preventing the group from being protected consistently. Stale metadata can occur due to failed operations, synchronization issues, or manual changes. To resolve, identify the affected entities, clear the stale metadata, and ensure the Consistency Group is properly synchronized."

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Nutanix Prism Alerts Reference Guide, Version 6.0, Section: "Alert A130358 - ConsistencyGroupWithStaleEntities" (Nutanix Portal).

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

#### NEW QUESTION # 116

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. Check there is enough disk space on FSVMs.
- B. Examine the failed tasks on the FSVMs.
- C. Increase upgrades timeout from ecli.
- 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 # 117

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