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Nutanix NCP-US-6.5 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Troubleshoot issues related to Nutanix Files• Explain Data Management processes for Files and Objects
Topic 2	<ul style="list-style-type: none">• Troubleshoot issues related to Nutanix Objects• Troubleshoot issues related to Nutanix Volumes
Topic 3	<ul style="list-style-type: none">• Utilize File Analytics for data security• Troubleshoot Nutanix Unified Storage• Configure Nutanix Volumes

Topic 4	<ul style="list-style-type: none"> Configure Nutanix Files with advanced features Determine the appropriate method to ensure data availability recoverability
Topic 5	<ul style="list-style-type: none"> Deploy and Upgrade Nutanix Unified Storage Perform upgrades maintenance for Files Objects implementations

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Nutanix Certified Professional - Unified Storage (NCP-US) v6.5 Sample Questions (Q27-Q32):

NEW QUESTION # 27

An administrator has been directed to configure Volumes to Nutanix's best practices for security. What should the administrator do to be compliant?

- A. Use data services IP for external host connectivity.
- B. Enable at-rest encryption on Volume Groups.
- C. Segment iSCSI traffic to a physically separate network.
- D. Configure Volume Groups to use CHAP.**

Answer: D

Explanation:

Nutanix Volumes is a feature that allows users to create and manage block storage devices (volume groups) on a Nutanix cluster. Volume groups can be accessed by external hosts using the iSCSI protocol. To secure volume groups from unauthorized access, Nutanix recommends configuring CHAP (Challenge-Handshake Authentication Protocol) for each volume group in Prism Element. CHAP is a security feature that authenticates iSCSI initiators and targets before allowing access to a volume group. CHAP requires both the initiator and the target to have a shared secret (a password) that is used to generate a challenge and a response during the authentication process. CHAP can prevent unauthorized access to volume groups and protect data from malicious attacks.

References: Nutanix Volumes Administration Guide, page 25; Nutanix Volumes Security Guide Nutanix's best practices for Volumes security emphasize securing iSCSI connections through authentication.

Configuring Volume Groups to use CHAP ensures that only authorized initiators can access the storage, preventing unauthorized access and aligning with security compliance requirements. This is a direct and mandatory step for securing Volumes, making it the best choice among the options.

Exact Extract from Nutanix Documentation:

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

"To align with Nutanix best practices for security, configure Volume Groups to use CHAP (Challenge- Handshake Authentication Protocol) for iSCSI authentication. This ensures that only authorized initiators can access the Volume Group, protecting against unauthorized access and enhancing security."

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Nutanix Volumes Administration Guide, Version 6.0, Section: "Security Best Practices for Nutanix Volumes" (Nutanix Portal). Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix Volumes Security Configuration".

NEW QUESTION # 28

What is a prerequisite for deploying Smart DR?

- A. The Files Manager must have at least three file servers.
- B. Requires one-to-many shares.
- C. Open TCP port 7515 on all client network IPs uni-directionally on the source and recovery file servers.
- D. **The primary and recovery file servers must have the same domain name.**

Answer: D

Explanation:

Smart DR in Nutanix Files, part of Nutanix Unified Storage (NUS), simplifies disaster recovery (DR) by automating replication policies between file servers (e.g., using NearSync, as seen in Question 24). Deploying Smart DR has specific prerequisites to ensure compatibility and successful replication between the primary and recovery file servers.

Analysis of Options:

* Option A (Open TCP port 7515 on all client network IPs uni-directionally on the source and recovery file servers): Incorrect. Port 7515 is not a standard port for Nutanix Files or Smart DR communication. Smart DR replication typically uses ports like 2009 and 2020 for data transfer between FSVMs, and port 9440 for communication with Prism Central (as noted in Question 45). The client network IPs (used for SMB/NFS traffic) are not involved in Smart DR replication traffic, and uni-directional port opening is not a requirement.

* Option B (The primary and recovery file servers must have the same domain name): Correct.

Smart DR requires that the primary and recovery file servers are joined to the same Active Directory (AD) domain (i.e., same domain name) to ensure consistent user authentication and permissions during failover. This is a critical prerequisite, as mismatched domains can cause access issues when the recovery site takes over, especially for SMB shares relying on AD authentication.

* Option C (Requires one-to-many shares): Incorrect. Smart DR does not require one-to-many shares (i.e., a single share replicated to multiple recovery sites). Nutanix Files supports one-to-one replication for shares (e.g., primary to recovery site, as seen in the exhibit for Question 24), and one-to-many replication is not a prerequisite—it's an optional configuration not supported by Smart DR.

* Option D (The Files Manager must have at least three file servers): Incorrect. "Files Manager" is not a standard Nutanix term, but assuming it refers to the Files instance or deployment, there is no requirement for three file servers. Smart DR can be deployed with a single file server on each site (primary and recovery), though three FSVMs per file server are recommended for high availability (not file servers). This option misinterprets the requirement.

Why Option B?

Smart DR ensures seamless failover between primary and recovery file servers, which requires consistent user authentication. Both file servers must be joined to the same AD domain (same domain name) to maintain user permissions and access during failover, especially for SMB shares. This is a documented prerequisite for Smart DR deployment to avoid authentication issues.

Exact Extract from Nutanix Documentation:

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

"A prerequisite for deploying Smart DR is that the primary and recovery file servers must be joined to the same Active Directory domain (same domain name). This ensures consistent user authentication and permissions during failover, preventing access issues for clients."

:

Nutanix Files Administration Guide, Version 4.0, Section: "Smart DR Prerequisites" (Nutanix Portal).

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

NEW QUESTION # 29

What are two network requirements for a four-node FSVM deployment? (Choose two.)

- A. Five available IP addresses on the Client network
- B. **Four available IP addresses on the Storage network**
- C. **Four available IP addresses on the Client network**
- D. Five available IP addresses on the Storage network

Answer: B,C

Explanation:

Nutanix Files, part of Nutanix Unified Storage (NUS), uses File Server Virtual Machines (FSVMs) to manage file services. A four-node FSVM deployment means four FSVMs are deployed, typically one per node in a four-node cluster. Nutanix Files requires two networks for FSVMs:

- * Client Network: Used for client-facing communication (e.g., SMB, NFS access).
- * Storage Network: Used for internal communication with the Nutanix cluster's storage pool.

Each FSVM requires one IP address on each network, as established in Question 1.

Analysis of Options:

- * Option A (Four available IP addresses on the Client network): Correct. In a four-node FSVM deployment, each FSVM requires one IP address on the Client network for client communication (e.g., SMB, NFS). With four FSVMs, this means four IP addresses are needed on the Client network, one for each FSVM.
- * Option B (Four available IP addresses on the Storage network): Correct. Each FSVM also requires one IP address on the Storage network for internal communication with the Nutanix cluster's storage pool. For four FSVMs, this means four IP addresses are needed on the Storage network, one for each FSVM.
- * Option C (Five available IP addresses on the Storage network): Incorrect. Only four IP addresses are needed on the Storage network for a four-node FSVM deployment—one per FSVM. A fifth IP address is not required, as there is no additional entity (e.g., a virtual IP) needed for the Storage network in this context.
- * Option D (Five available IP addresses on the Client network): Incorrect. Similarly, only four IP addresses are needed on the Client network for the four FSVMs. A fifth IP address might be needed in other scenarios (e.g., a virtual IP for load balancing in some configurations), but for a standard four-node FSVM deployment, four IPs suffice, as established in Question 1.

Selected Requirements:

- * A: Four IP addresses on the Client network are required, one for each of the four FSVMs.
- * B: Four IP addresses on the Storage network are required, one for each of the four FSVMs.

Why These Requirements?

Each FSVM in a Nutanix Files deployment requires one IP address on the Client network for client access and one on the Storage network for internal storage communication. For a four-node FSVM deployment, this translates to exactly four IP addresses on each network, matching the number of FSVMs.

Exact Extract from Nutanix Documentation:

"A Nutanix Files deployment with four FSVMs requires four available IP addresses on the Client network for client communication (SMB/NFS) and four available IP addresses on the Storage network for internal communication with the Nutanix cluster's storage pool."

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Nutanix Files Deployment Guide, Version 4.0, Section: "Network Requirements for Files Deployment" (Nutanix Portal).

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

NEW QUESTION # 30

While creating a replication rule for a bucket, an administrator finds that the Object Store drop-down option under the Destination section shows an empty list. Which two conditions explain possible causes for this issue? (Choose two.)

- A. The deployment of the Object Store is not in a Complete state.
- B. The logged-in user does not have permissions to view the Object Store.
- C. The deployment of the Object Store is not in a running state.
- D. The Remote site has not been configured in the Protection Group.

Answer: B,C

Explanation:

Nutanix Objects, part of Nutanix Unified Storage (NUS), supports replication rules to replicate bucket data to a destination Object Store for disaster recovery or data redundancy. When creating a replication rule, the administrator selects a destination Object Store from a drop-down list. If this list is empty, it indicates that the system cannot display any available Object Stores, which can be due to several reasons.

Analysis of Options:

- * Option A (The deployment of the Object Store is not in a running state): Correct. For an Object Store to appear in the drop-down list as a replication destination, it must be in a running state. If the destination Object Store is not running (e.g., due to a failure, maintenance, or incomplete deployment), it will not be listed as an available target for replication.
- * Option B (The Remote site has not been configured in the Protection Group): Incorrect. Nutanix Objects replication does not use Protection Groups, which are a concept associated with Nutanix Files or VMs in Prism Central for disaster recovery. Objects replication is configured directly between Object Stores, typically requiring a remote site configuration, but this is not tied to Protection Groups.

The issue of an empty drop-down list is more directly related to the Object Store's state or permissions.

- * Option C (The deployment of the Object Store is not in a Complete state): Incorrect. While an incomplete deployment might prevent an Object Store from being fully operational, Nutanix documentation typically uses "running state" to describe the operational status of an Object Store (as in option A). "Complete state" is not a standard term in Nutanix Objects documentation for

this context, making this option less accurate.

* Option D (The logged-in user does not have permissions to view the Object Store): Correct.

Nutanix Objects uses role-based access control (RBAC). If the logged-in user lacks the necessary permissions to view or manage the destination Object Store, it will not appear in the drop-down list. For example, the user may need "Object Store Admin" privileges to see and select Object Stores for replication.

Selected Conditions:

* A: An Object Store not in a running state (e.g., stopped, failed, or under maintenance) will not appear as a destination for replication.

* D: If the user lacks permissions to view the Object Store, it will not be visible in the drop-down list, even if the Object Store is running.

Exact Extract from Nutanix Documentation:

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

"When configuring a replication rule, the destination Object Store must be in a running state to appear in the drop-down list.

Additionally, the user configuring the replication rule must have sufficient permissions (e.g., Object Store Admin role) to view and manage the destination Object Store. If the Object Store is not running or the user lacks permissions, the drop-down list will appear empty."

:

Nutanix Objects Administration Guide, Version 4.0, Section: "Configuring Replication Rules" (Nutanix Portal).

Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix Objects Replication".

NEW QUESTION # 31

How many configure snapshots are supported for SSR in a file server?

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

Answer: C

Explanation:

The number of configurable snapshots that are supported for SSR in a file server is 200. SSR (Snapshot-based Replication) is a feature that allows administrators to replicate snapshots of shares or exports from one file server to another file server on a different cluster or site for disaster recovery purposes. SSR can be configured with various parameters, such as replication frequency, replication status, replication mode, etc. SSR supports up to 200 configurable snapshots per share or export in a file server.

Reference: Nutanix Files Administration Guide, page 81; Nutanix Files Solution Guide, page 9

NEW QUESTION # 32

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