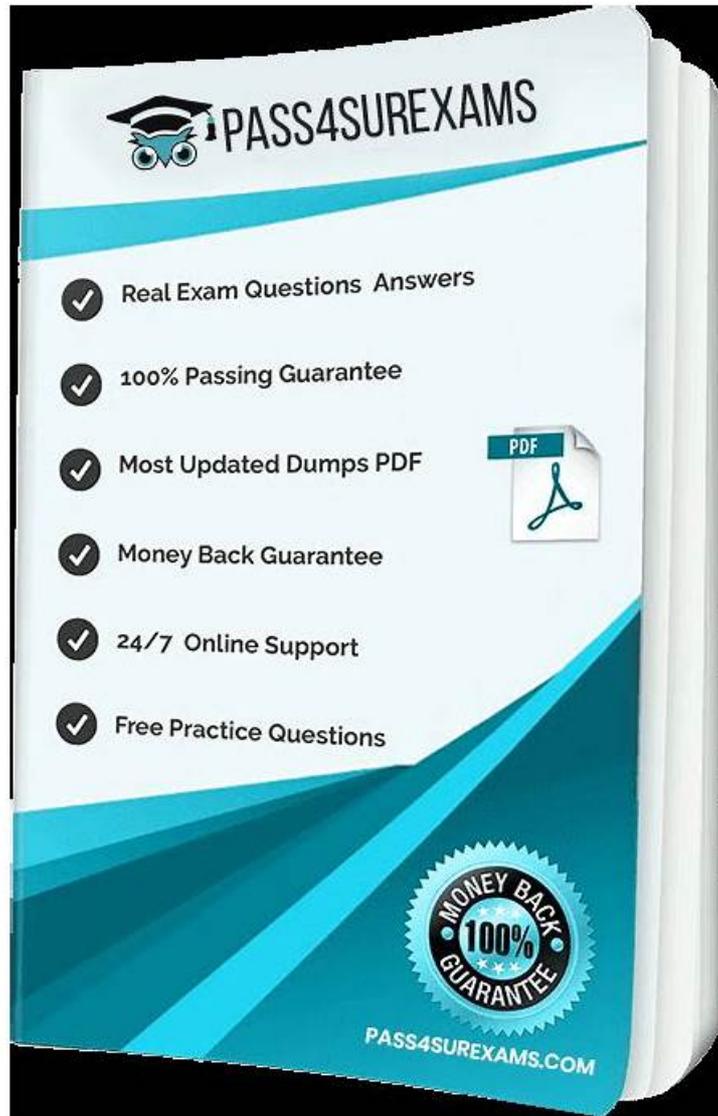


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## 2026 Realistic NCP-US-6.10 Latest Exam Pdf - Nutanix Certified Professional - Unified Storage (NCP-US) v6.10 Exam Flashcards

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### Nutanix Certified Professional - Unified Storage (NCP-US) v6.10 Sample Questions (Q18-Q23):

#### NEW QUESTION # 18

How many IP addresses are required by the storage network when deploying Nutanix Files?

- A. One less IP address than the number of FSVMs
- B. Twice as many IP addresses as the number of FSVMs
- C. Same number of IP addresses as the number of FSVMs
- **D. One additional IP address than the number of FSVMs**

**Answer: D**

Explanation:

When deploying Nutanix Files, the storage network requires **one additional IP address than the number of File Server Virtual Machines (FSVMs)**. Nutanix Files is a scale-out file storage solution that uses a distributed architecture, where each FSVM handles file services and communicates with clients and the Nutanix cluster. The IP address requirements include one IP address for each FSVM plus an additional virtual IP address (VIP) that serves as the client-facing endpoint for the file server.

The **Nutanix Unified Storage Administration (NUSA)** course explains that Nutanix Files deployment involves configuring a file server with a minimum of three FSVMs for high availability and scalability. Each FSVM requires a unique IP address on the storage network to handle internal communication and data operations. Additionally, a single VIP is configured for the file server to provide a unified access point for clients using protocols like SMB or NFS. This VIP is load-balanced across the FSVMs, ensuring seamless failover and scalability.

The **Nutanix Certified Professional - Unified Storage (NCP-US)** study guide specifies that "the storage network for Nutanix Files requires one IP address per FSVM plus one additional IP address for the file server VIP." For example, a Nutanix Files deployment with three FSVMs would require four IP addresses: three for the FSVMs and one for the VIP. This configuration ensures that clients can access the file server through a single IP address, while the FSVMs handle the backend storage operations.

The other options are incorrect:

- **Same number of IP addresses as the number of FSVMs**: This does not account for the additional VIP required for client access, which is a critical component of the Nutanix Files architecture.

- **One less IP address than the number of FSVMs**: This is not feasible, as each FSVM requires its own IP address, and the VIP adds an additional requirement.

- **Twice as many IP addresses as the number of FSVMs**: This overestimates the IP address needs, as only one additional VIP is needed, not double the number of FSVMs.

The NUSA course documentation further clarifies that "the VIP is used to abstract the file server from the individual FSVMs, providing a single point of access for clients and enabling features like load balancing and failover." The storage network must be configured with sufficient IP addresses to accommodate both the FSVMs and the VIP during deployment.

References:

- Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Files: "Deployment and network configuration for Nutanix Files, IP address requirements."

- Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 1: Deploy and Upgrade Nutanix Unified Storage, Subtopic: "Nutanix Files architecture and network setup."

- Nutanix Documentation (<https://www.nutanix.com>), Nutanix Files Administration Guide: "Configuring storage network and VIP for Nutanix Files deployment."

## NEW QUESTION # 19

Question:

When naming an Object Store instance, which two naming rules must be followed? (Choose two.)

- A. Must begin with a number and end with a letter or number.
- B. Must be unique across all existing object store names in Objects.
- C. Must begin with a letter, and end with a letter or number.
- D. Must be a minimum of three and a maximum of 32 characters long.

**Answer: C,D**

Explanation:

During Nutanix Objects deployment, Object Store instance naming is governed by specific conventions to ensure system consistency and compatibility with DNS and object storage standards.

The NUSA course describes these strict naming rules:

Length Rule:

"Object store names must be between 3 and 32 characters in length. This ensures that the names are concise yet descriptive enough for operational clarity." Start/End Rule:

"Object store names must begin with a letter and end with a letter or a number. Names cannot start with a number or symbol to maintain naming consistency across DNS and storage services." Uniqueness Across All Clusters:

"While object store names must be unique within the same Nutanix cluster, global uniqueness across multiple clusters is not enforced or required." Starting with a number:

"Names starting with numbers are not supported, as per best practices to align with DNS naming standards." Thus, the enforced rules:

#Minimum 3, maximum 32 characters

#Begin with a letter and end with a letter/number

## NEW QUESTION # 20

When hardening the network for Nutanix Objects, which is the only network endpoint that should be exposed to users?

- A. OOB
- B. eth0
- C. virbr0
- D. S3

**Answer: D**

Explanation:

When hardening the network for Nutanix Objects, the **S3 endpoint** is the only network endpoint that should be exposed to users. Nutanix Objects is an object storage solution that provides an S3-compatible API for accessing and managing objects. The S3 endpoint is the designated interface through which users and applications interact with Nutanix Objects, typically over HTTPS to ensure secure data transfer.

According to the **Nutanix Unified Storage Administration (NUSA)** course, network hardening for Nutanix Objects involves restricting access to only the necessary endpoints to minimize the attack surface.

The S3 endpoint, which operates over port 443 (HTTPS) or port 80 (HTTP, though HTTPS is recommended for security), is the primary entry point for client interactions. Exposing only this endpoint ensures that users can access object storage services while other internal or management interfaces remain protected.

The **Nutanix Certified Professional - Unified Storage (NCP-US)** study guide emphasizes that Nutanix Objects is designed to segregate user-facing traffic from internal system traffic. The S3 endpoint is configured during the deployment of Nutanix Objects and is associated with a virtual IP address (VIP) or DNS name that resolves to the object store. To harden the network, administrators should configure firewalls and network security groups to allow traffic only to the S3 endpoint, blocking access to other interfaces such as management or internal network endpoints.

The other options are not suitable for user exposure:

- **virbr0**: This is a virtual bridge interface typically used for internal virtualization networking (e.g., in KVM-based environments). It is not a user-facing endpoint and should not be exposed, as it is used for internal communication between virtual machines or services.

- **eth0**: This refers to a physical Ethernet interface on a node, which may carry various types of traffic (e.g., storage, management, or VM traffic). Exposing eth0 directly to users would compromise security by allowing access to internal system communications.

- **OOB (Out-of-Band)**: This refers to out-of-band management interfaces, such as IPMI or iLO, used for hardware

management. These are strictly for administrative purposes and must remain isolated from user access to prevent unauthorized control of the infrastructure.

The NUSA course documentation specifically notes that "Nutanix Objects network hardening requires exposing only the S3 endpoint to external users, typically through a load-balanced VIP, while ensuring all other interfaces, such as management or internal cluster networks, are isolated." This is achieved by configuring network segmentation, firewalls, and access control lists (ACLs) to restrict traffic to the S3 endpoint.

References:

- Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Objects: "Network configuration and hardening for Nutanix Objects, S3 endpoint exposure."
- Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 2: Configure and Utilize Nutanix Unified Storage, Subtopic: "Network security and endpoint configuration for Nutanix Objects."
- Nutanix Documentation (<https://www.nutanix.com>), Nutanix Objects Administration Guide: "Securing network access to S3 endpoints."

### NEW QUESTION # 21

An administrator has configured a volume-group with four vDisks and needs them to be load-balanced across multiple CVMs. The volume-group will be directly connected to the VM. Which task must the administrator perform to meet this requirement?

- A. Enable load-balancing for the volume-group using `acli`
- B. Select multiple initiator IQNs when creating the volume-group
- C. Select multiple iSCSI adapters within the VM
- D. Enable load-balancing for the volume-group using `ncli`

**Answer: A**

Explanation:

To load-balance a volume-group with four vDisks across multiple Controller Virtual Machines (CVMs) for a VM using Nutanix Volumes, the administrator must enable load-balancing for the volume-group using `acli`.

Nutanix Volumes supports iSCSI-based block storage, and load-balancing ensures that I/O traffic from the VM is distributed across multiple CVMs, improving performance and scalability. The `acli` (AHV Command-Line Interface) is the tool used to configure this setting for volume-groups.

The Nutanix Unified Storage Administration (NUSA) course states, "Nutanix Volumes supports load-balancing of iSCSI traffic across CVMs, which can be enabled for a volume-group using the `acli` command to ensure optimal performance for VMs." The specific command in `acli` allows the administrator to enable load-balancing, distributing the iSCSI sessions for the volume-group's vDisks across the available CVMs in the cluster. This ensures that the VM's I/O requests are handled by multiple CVMs, preventing any single CVM from becoming a bottleneck.

The Nutanix Certified Professional - Unified Storage (NCP-US) study guide further elaborates that "to enable load-balancing for a volume-group, the administrator can use the `acli vg.update` command with the `enable_load_balancing=true` option, ensuring that iSCSI traffic is distributed across CVMs for better performance." This is particularly important for volume-groups with multiple vDisks, as in this case with four vDisks, to optimize I/O distribution.

The other options are incorrect:

\* Enable load-balancing for the volume-group using `ncli`: The `ncli` (Nutanix Command-Line Interface) is used for cluster-wide configurations, but load-balancing for volume-groups is specifically managed via `acli`, which is tailored for AHV and volume-group operations.

\* Select multiple initiator IQNs when creating the volume-group: Initiator IQNs (iSCSI Qualified Names) are used to authenticate and connect initiators to the volume-group, but selecting multiple IQNs does not enable load-balancing across CVMs.

\* Select multiple iSCSI adapters within the VM: Configuring multiple iSCSI adapters in the VM is a client-side configuration that can help with multipathing, but it does not control load-balancing across CVMs, which is a cluster-side setting.

The NUSA course documentation highlights that "enabling load-balancing via `acli` for a volume-group ensures that iSCSI traffic is distributed across multiple CVMs, optimizing performance for VMs with direct-attached volumes." References:

Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Volumes: "Configuring load-balancing for volume-groups." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 2: Configure and Utilize Nutanix Unified Storage, Subtopic: "Nutanix Volumes load-balancing with `acli`." Nutanix Documentation (<https://www.nutanix.com>), Nutanix Volumes Administration Guide: "Enabling load-balancing for volume-groups using `acli`."

### NEW QUESTION # 22

An administrator needs to reduce the amount of storage used by Nutanix Files on the cluster. The administrator is looking to enable Tiering capabilities to send data to an on-premise S3 compatible bucket.

The administrator needs to keep the control on-premise and no cloud services should be used.  
Which Smart Tiering function should the administrator use?

- **A. Advanced**
- B. Data Lens
- C. Standard
- D. Files Analytics

**Answer: A**

Explanation:

Nutanix Files Smart Tiering offers two modes:

\* Standard Tiering: Tiers data to internal Nutanix Objects (on the same cluster).

\* Advanced Tiering: Tiers data to external S3-compatible storage (on-premises or public cloud).

The requirement specifies an \*on-premise S3 bucket\* with no cloud services, making Advanced Tiering the solution.

\* Option A (Standard): Requires internal Nutanix Objects, not external S3.

\* Option C (Files Analytics): Provides usage insights but doesn't tier data.

\* Option D (Data Lens): A cloud-based governance tool (requires cloud connectivity).

Reference:Nutanix Unified Storage Administration (NUSA) Course Study Guide:

"Advanced Smart Tiering integrates with external S3-compatible object stores for cost-effective tiering. Use it for on-premises object storage to maintain data locality."(Section: "Smart Tiering for Storage Optimization") (Module: "Nutanix Files Advanced Features") Nutanix Objects Administration Guide:

"Advanced Tiering supports on-premises S3 targets like Nutanix Objects or third-party solutions, ensuring full control over tiered data."(Chapter: "Configuring Advanced Smart Tiering")

## NEW QUESTION # 23

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