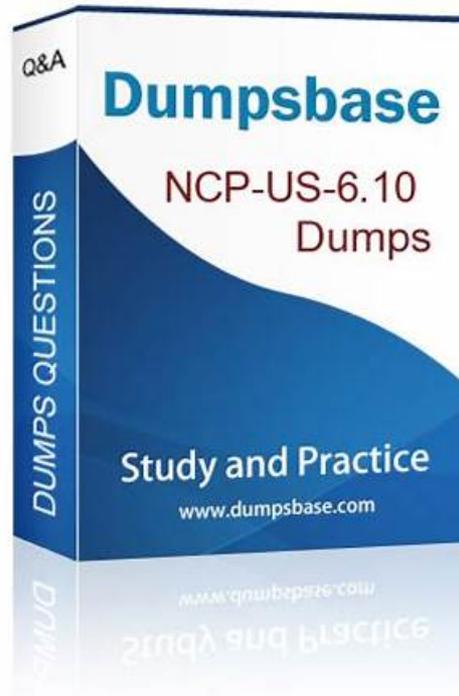


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Nutanix Certified Professional - Unified Storage (NCP-US) v6.10 Sample Questions (Q19-Q24):

NEW QUESTION # 19

An administrator needs to configure an SMB share for the user profiles in a company. Which network share type is most suitable for this task?

- A. A connected share
- B. A WORM share
- C. A distributed share
- D. A standard share

Answer: C

Explanation:

To configure an SMB share for user profiles in a company using Nutanix Files, the most suitable network share type is a distributed share. User profiles typically require a share that can scale with the number of users, provide high availability, and ensure consistent performance across multiple clients. A distributed share in Nutanix Files is designed to meet these needs by distributing data and workload across all File Server Virtual Machines (FSVMs) in the file server, ensuring scalability and load balancing.

The Nutanix Unified Storage Administration (NUSA) course states, "A distributed share in Nutanix Files is ideal for workloads like user profiles, as it leverages all FSVMs to provide scalability, high availability, and consistent performance for large numbers of concurrent users." Distributed shares are optimized for environments where multiple users access the share simultaneously, such as in user profile scenarios where each user has a profile folder accessed via SMB. This share type ensures that the workload is balanced across FSVMs, preventing any single FSVM from becoming a bottleneck.

The Nutanix Certified Professional - Unified Storage (NCP-US) study guide further elaborates that

"distributed shares are recommended for user profile storage in Nutanix Files, as they provide seamless scalability and fault tolerance by distributing data across all FSVMs in the file server." This is particularly important for user profiles, which are often accessed during login/logout events, requiring low latency and high concurrency support.

The other options are incorrect:

- A standard share: A standard share is hosted on a single FSVM, which can become a performance bottleneck and lacks the scalability needed for user profiles with many concurrent users.
- A connected share: There is no such share type as a "connected share" in Nutanix Files; this term is not applicable.
- A WORM share: A WORM (Write Once, Read Many) share is designed for immutable data retention (e.g., for compliance), not for user profiles, which require frequent read/write operations.

The NUSA course documentation emphasizes that "distributed shares are the best choice for user profile storage in Nutanix Files, ensuring scalability and performance for enterprise environments with many users." References:

- Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Files: "Configuring distributed shares for user profiles."
- Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 2: Configure and Utilize Nutanix Unified Storage, Subtopic: "Share types in Nutanix Files for user workloads."
- Nutanix Documentation (<https://www.nutanix.com>), Nutanix Files Administration Guide: "Distributed shares for user profile storage."

NEW QUESTION # 20

An administrator is in the process of migrating shares from one Nutanix Files cluster in the primary data center (DC) to another Files cluster running in a new DC that has been built. The administrator is using Smart DR to perform this migration as it provides less downtime. Upon a successful sync during a scheduled maintenance window, users are unable to save to the new share. How should the administrator resolve the issue?

- A. Set share read-only to false
- B. Set share type to multiprotocol
- C. Enable Self-Service Restore
- D. Enable Continuous Availability

Answer: A

Explanation:

Nutanix Files is a software-defined, scale-out file storage solution within Nutanix Unified Storage, offering SMB and NFS file

services to clients. Smart DR (Disaster Recovery) is a feature designed to protect and migrate file shares between Nutanix Files clusters with minimal downtime, making it ideal for planned migrations, such as moving shares from a primary data center to a new data center. Smart DR leverages replication to synchronize data between the source (primary) and target (new) clusters, followed by a switchover process during a maintenance window.

In this scenario, the administrator has successfully synchronized the data using Smart DR, but post-sync, users cannot save files to the new share, indicating a lack of write access. This is a common situation in migration workflows, where the target share may default to a read-only state after synchronization to ensure data consistency until the migration is fully committed.

The NUSA course, under the "Troubleshooting Nutanix Unified Storage" module, addresses such issues, noting that after a Smart DR sync, the target share's permissions must be adjusted to allow write operations.

The specific resolution involves modifying the share's read-only attribute. Let's analyze the options:

* A. Enable Continuous Availability: Continuous Availability is a high-availability feature in Nutanix Files that ensures share accessibility during failures by maintaining active-active configurations across nodes. While beneficial for uptime, it does not address the specific issue of write access post-migration, as it pertains to availability rather than permissions. The NCP-US study guide mentions this feature under "Section 3: Analyze and Monitor Nutanix Unified Storage," but it's unrelated to this troubleshooting context.

* B. Enable Self-Service Restore: This feature allows end-users to recover their own files from snapshots, enhancing user autonomy and reducing administrative overhead. However, it is designed for data recovery, not for resolving share-level access issues like write permissions. The NUSA course covers this in the "Data Protection" section, confirming its irrelevance here.

* C. Set share read-only to false: This option directly addresses the problem. In Nutanix Files, shares can be configured with a read-only attribute, often set to true during replication or migration to prevent premature writes. After a successful Smart DR sync, the administrator must update this attribute on the target cluster to allow write access. The NUSA course documentation, under "Managing File Shares," states: "Post-migration, ensure the share's read-only setting is disabled (set to false) to enable write operations." This can be done via the Prism interface or CLI, making it the precise solution.

* D. Set share type to multiprotocol: Multiprotocol shares support both SMB and NFS access, catering to diverse client environments. While this might be relevant during initial share configuration, it does not resolve the write access issue post-migration, as the problem is permission-based, not protocol-related. The NCP-US study guide discusses this under "Section 2: Configure and Utilize Nutanix Unified Storage," but it's not applicable here.

The correct resolution is C. Set share read-only to false. After the Smart DR sync, the administrator must access the Nutanix Files management interface (e.g., Prism Central), locate the migrated share on the new cluster, and modify its properties to disable the read-only setting. This action ensures users can save files, completing the migration process seamlessly.

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Nutanix Unified Storage (NCP-US) Study Guide, Section 4: Troubleshoot Nutanix Unified Storage, Subsection: Post-Migration Issues.

Nutanix Unified Storage Administration (NUSA) Course, Module: Troubleshooting Nutanix Unified Storage, Topic: Managing Share Permissions After Smart DR Migration.

NEW QUESTION # 21

Question:

An administrator needs to allow replicating user data across file servers in different locations.

Which Nutanix Files feature should the administrator utilize?

- A. Smart Sync
- B. VDI Sync
- C. Data Sync
- D. Data Protection

Answer: C

Explanation:

Nutanix Files includes several features for managing data availability and mobility across sites. Here's the detailed breakdown:

Data Sync- This feature is designed to replicate user data between file servers at different locations. It enables bi-directional or one-way file-level replication for use cases such as:

* Branch office file sharing

* Geo-dispersed data access

* Centralized backups of branch data

From the NUSA course materials:

"Data Sync provides file-level replication across geographically distributed Nutanix Files deployments, ensuring consistent data access and synchronization across multiple sites." This feature is purpose-built for cross-location file data replication, meeting the administrator's need.

Data Protection- Refers to snapshot-based local or remote protection of the entire file server or shares, not file-level sync across

different locations.

Smart Sync- Specific to Object data within Nutanix Objects, not for Files.

VDI Sync- Designed for syncing user profiles in VDI environments, not general file share replication.

Thus, the administrator should use Data Sync for replicating user data across file servers in different locations.

NEW QUESTION # 22

Question:

During a Windows 2019 Failover Cluster deployment, an administrator is unable to deploy a Nutanix Files witness share.

The Nutanix Files cluster environment is as follows:

- * SMB shares need to be highly available
- * DFS is enabled for the cluster
- * Three FSVMs are deployed
- * General share type is used
- * WORM is disabled

What should the administrator do to resolve the issue?

- A. Use homes as the share type.
- **B. Disable DFS on the share.**
- C. Enable WORM.
- D. Use NFS for shares.

Answer: B

Explanation:

The witness share in a Windows Failover Cluster environment (for cluster quorum) requires a highly available and consistent SMB share.

In the NUSA course, it's highlighted that Distributed File System (DFS) is not compatible with witness share deployments because:

"When DFS is enabled on a Nutanix Files share, it redirects and abstracts file paths across multiple servers for redundancy and load balancing. However, Windows Failover Clustering requires direct access to a highly available SMB share without DFS interference to maintain strict cluster quorum consistency." Therefore, to deploy a witness share:

DFS must be disabled on the share used for the cluster witness.

* Enabling DFS causes redirection and breaks direct share connections that Failover Clustering needs.

* WORM and share type are irrelevant here-DFS is the critical factor.

* NFS is not suitable because Windows Failover Clustering requires SMB for witness shares.

Thus, to resolve the deployment issue, the administrator should disable DFS on the share intended for the witness role.

NEW QUESTION # 23

An administrator has been asked to upgrade an S3-compatible bucket on-premise using Prism Central. Prior to running the LCM upgrade, the administrator validated the following configurations for this task:

* Inbound traffic allowlist:

* Controller Virtual Machine (CVM) IP addresses (including secondary/segmented)

* Prism Central IP address

* Pod network range, usually 10.100.0.0/16

* All IP addresses, such as 0.0.0.0/0 for ports TCP 80 and 443

Outbound traffic allowlist:

* CVM IP addresses (including secondary/segmented)

* Prism Central IP address

* Pod network range, usually 10.100.0.0/16

* All IP addresses such as 0.0.0.0/0 for ports TCP 53, 7100, 5553 and UDP 53, 123 After the validation, the LCM upgrade is launched but did not complete. After reaching the security team, the administrator is informed that security has been enforced on the outbound traffic to the Internet as well. The administrator has been asked to provide a list of components that require Internet access. What should the administrator provide to the security team for a successful upgrade?

- A. LCM
- **B. CVM IP address/port**
- C. Pod network
- D. Prism Central IP address/port

Answer: B

Explanation:

The scenario involves upgrading an S3-compatible bucket (Nutanix Objects) using Prism Central's Lifecycle Manager (LCM). The LCM upgrade process failed because outbound traffic to the Internet was restricted, and the administrator needs to identify which components require Internet access for a successful upgrade. The correct answer is that the CVM IP address/port must be provided to the security team, as the Controller Virtual Machines (CVMs) are responsible for downloading upgrade artifacts from Nutanix's external repositories during an LCM upgrade.

The Nutanix Unified Storage Administration (NUSA) course explains that "LCM upgrades require the CVMs to access external Nutanix repositories to download software and firmware updates, typically over HTTPS (port 443)." The CVMs initiate the download of upgrade packages for components like Nutanix Objects, which includes the S3-compatible bucket infrastructure. The course further notes that "outbound traffic from CVM IP addresses to the Internet must be allowed on ports such as TCP 80 (HTTP) and TCP 443 (HTTPS) for LCM to successfully retrieve upgrade files." The Nutanix Certified Professional - Unified Storage (NCP-US) study guide elaborates that "during an LCM upgrade, CVMs communicate with external Nutanix servers (e.g., download.nutanix.com) to fetch upgrade bundles, requiring outbound Internet access from the CVM IP addresses on TCP ports 80 and 443." Additionally, DNS resolution (TCP/UDP port 53) is needed to resolve the external repository URLs, and NTP (UDP port 123) ensures time synchronization, both of which are already allowed in the outbound traffic configuration provided. However, the failure suggests that the specific outbound traffic from CVMs to the Internet on port 443 (or 80) was blocked, preventing the download of the Nutanix Objects upgrade package.

The other options are incorrect:

- * Pod network: The pod network (e.g., 10.100.0.0/16) is typically an internal network range for containerized workloads and does not require Internet access for LCM upgrades.

- * Prism Central IP address/port: While Prism Central orchestrates the LCM upgrade, it is the CVMs that perform the actual download of upgrade artifacts from the Internet. Prism Central communicates with CVMs internally and does not directly access the Internet for this task.

- * LCM: LCM is a software component, not a network entity with an IP address or port. It runs on Prism Central and relies on CVMs to fetch the necessary files.

To resolve the issue, the administrator should provide the security team with the CVM IP addresses and ensure that outbound traffic to the Internet is allowed on TCP port 443 (HTTPS) and optionally TCP port 80 (HTTP) for accessing Nutanix's external repositories (e.g., download.nutanix.com). The NUSA course documentation emphasizes that "ensuring CVMs have Internet access on the required ports is critical for LCM upgrades to complete successfully, especially for components like Nutanix Objects."

References:

Nutanix Unified Storage Administration (NUSA) Course, Section on Lifecycle Management: "Network requirements for LCM upgrades." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 1: Deploy and Upgrade Nutanix Unified Storage, Subtopic: "LCM upgrade process and network dependencies." Nutanix Documentation (<https://www.nutanix.com>), LCM Administration Guide: "Outbound network access for CVMs during upgrades."

NEW QUESTION # 24

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