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Nutanix Certified Professional - Unified Storage (NCP-US) v6.10 Sample

Questions (Q47-Q52):

NEW QUESTION # 47

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

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

Answer: A

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 # 48

Which two options show the correct minimum configurations when deploying Nutanix File servers? (Choose two.)

- A. A minimum of 12 GiB of memory per FSVM.
- B. A minimum of eight vCPUs per FSVM.
- C. The number of CVMs must be equal to or greater than the number of file server VMs (FSVMs).
- D. The minimum number of FSVMs is three.

Answer: A,D

Explanation:

When deploying Nutanix File servers, the correct minimum configurations include:

* The minimum number of FSVMs is three (Option C).

* A minimum of 12 GiB of memory per FSVM (Option D).

Nutanix Files is a scale-out file storage solution that uses File Server Virtual Machines (FSVMs) to provide file services via SMB and NFS protocols. The minimum configuration ensures high availability, performance, and scalability.

According to the Nutanix Unified Storage Administration (NUSA) course, "Nutanix Files requires a minimum of three FSVMs to ensure high availability and load balancing across the file server." This minimum of three FSVMs allows Nutanix Files to distribute file share operations and provide failover capabilities in case of FSVM or node failures.

The course also specifies that "each FSVM requires a minimum of 12 GiB of memory to handle file server operations effectively." This memory allocation supports the processing needs of file services, including protocol handling, caching, and management tasks. The Nutanix Certified Professional - Unified Storage (NCP-US) study guide elaborates that "Nutanix Files deployment requires at least three FSVMs, each configured with a minimum of 12 GiB of memory and four vCPUs, to meet the baseline requirements for production environments." While the guide mentions four vCPUs as the minimum, the options provided in the question include eight vCPUs, which is not the minimum but a possible configuration for higher workloads.

The other options are incorrect:

- * The number of CVMs must be equal to or greater than the number of FSVMs: There is no strict requirement that the number of Controller VMs (CVMs) must match or exceed the number of FSVMs.

CVMs manage the Nutanix cluster's storage and services, and their count depends on the cluster size, not the number of FSVMs.

- * A minimum of eight vCPUs per FSVM: The minimum requirement is four vCPUs per FSVM, as specified in Nutanix documentation. Eight vCPUs may be used for larger deployments but is not the minimum.

The NUSA course documentation confirms that "a Nutanix Files deployment must include at least three FSVMs with 12 GiB of memory each to ensure a robust and highly available file storage solution." References:

Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Files: "Deployment requirements and minimum configurations for FSVMs." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 1: Deploy and Upgrade Nutanix Unified Storage, Subtopic: "Nutanix Files deployment and FSVM sizing." Nutanix Documentation (<https://www.nutanix.com>), Nutanix Files Administration Guide: "Minimum configuration for Nutanix Files deployment."

NEW QUESTION # 49

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. Enable WORM.
- **B. Disable DFS on the share.**
- C. Use homes as the share type.
- 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 # 50

An administrator wants to control the user visibility of SMB folders and files based on user permissions.

What feature should the administrator choose to accomplish this?

- **A. Access Based-Enumeration (ABE)**

- B. Role Based Access Control (RBAC)
- C. File Analytics
- D. Files blocking

Answer: A

Explanation:

Access Based-Enumeration (ABE) is a feature in Nutanix Files that controls whether users can see folders and files for which they do not have access permissions. When ABE is enabled:

- * Users will only see the folders/files they are authorized to access.
- * Items for which they have no permissions will be hidden from view.

The NUSA course describes this feature:

"Access Based-Enumeration (ABE) ensures that users browsing a share will only see folders and files that they have permission to access, improving security and minimizing confusion." Thus, ABE is the precise feature for controlling user visibility of SMB shares based on permissions.

NEW QUESTION # 51

An administrator is implementing two production networks for Nutanix Objects:

- * Objects Storage Network (internal)
- * Objects Public Network (external) In which two ways is it recommended the administrator configure these networks? (Choose two.)

- A. Objects Storage Network and Objects Public Network on the same Virtual Network.
- **B. Objects Storage Network and Objects Public Network on different Virtual Networks.**
- **C. Objects Storage Network on a different network to the Controller VM (CVM).**
- D. Objects Storage Network on the same network as the Controller VM (CVM).

Answer: B,C

Explanation:

Network isolation is critical for security and performance:

- * Option C: Storage (internal) and Public (external) networks must be on separate VLANs/virtual networks to prevent unauthorized access to internal traffic.
- * Option D: The Storage Network should be isolated from the CVM network to avoid AOS cluster interference.
- * Incorrect:
- * A: CVMs manage AOS storage; Objects Storage Network should not share this segment.
- * B: Combining networks violates security best practices.

Reference: Nutanix Objects Deployment Guide:

"Place Objects Storage Network on a dedicated internal network, segregated from Public Networks and CVM traffic. Use distinct virtual networks for each." (Chapter: "Network Segmentation Best Practices") Nutanix NUSA Course: "Isolate Storage Network (backend) from Public Network (client-facing) and CVM network to ensure cluster stability and security." (Module: "Objects Network Design")

NEW QUESTION # 52

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