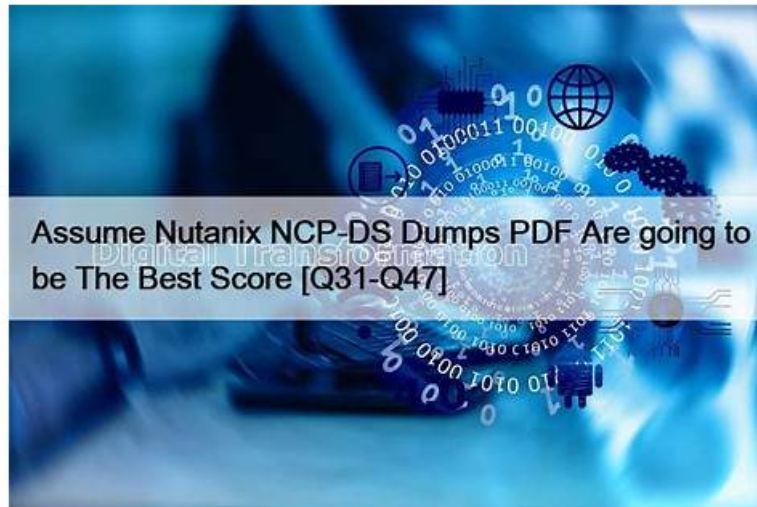


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Nutanix Certified Professional - Unified Storage (NCP-US) v6.10 Sample Questions (Q52-Q57):

NEW QUESTION # 52

Which setting is recommended when hardening a Nutanix Objects bucket with sensitive data?

- A. HTTP
- **B. WORM**
- C. KMIP
- D. Erasure Coding

Answer: B

Explanation:

When hardening a Nutanix Objects bucket that contains sensitive data, the recommended setting is ****WORM (Write Once, Read Many)****. WORM is a data protection feature that ensures objects stored in a bucket are immutable, meaning they cannot be modified or deleted for a specified retention period. This is particularly critical for sensitive data that requires compliance with regulatory standards, such as financial records, healthcare data, or legal documents, as it prevents unauthorized tampering or accidental deletion.

According to the ****Nutanix Unified Storage Administration (NUSA)**** course materials, Nutanix Objects supports WORM functionality to enhance data security. The course emphasizes that enabling WORM on a bucket ensures that data is protected against overwrites or deletions, which is a key aspect of hardening storage for sensitive information. WORM is particularly useful in scenarios where data integrity and retention are mandated by compliance requirements, such as GDPR, HIPAA, or SEC regulations.

The ****Nutanix Certified Professional - Unified Storage (NCP-US)**** study guide further elaborates that WORM can be configured at the bucket level in Nutanix Objects, allowing administrators to set retention policies that lock objects for a defined period. This makes it an ideal choice for securing sensitive data compared to the other options provided:

- ****HTTP****: This refers to the protocol used for accessing objects (e.g., via S3-compatible APIs) and is not a security or hardening mechanism. Using HTTP instead of HTTPS would actually reduce security, as it lacks encryption for data in transit.
- ****KMIP (Key Management Interoperability Protocol)****: While KMIP is used for managing encryption keys and can enhance security, it is not directly related to hardening a bucket. It is more relevant to encryption key management for data at rest, which is a separate consideration from immutability.
- ****Erasure Coding****: This is a data protection technique used to improve storage efficiency and resiliency by distributing data across nodes. While it enhances fault tolerance, it does not provide immutability or specific protections for sensitive data like WORM does.

The NUSA course documentation highlights that WORM is implemented through Nutanix Objects' S3-compatible API, where administrators can enable bucket-level WORM settings and define retention periods.

This ensures that even privileged users cannot alter or delete objects until the retention period expires, making it the most appropriate choice for hardening a bucket with sensitive data.

References:

- Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Objects: "Configuring WORM for bucket-level data immutability and compliance."
 - Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 2: Configure and Utilize Nutanix Unified Storage, Subtopic: "Nutanix Objects security features and WORM configuration."
 - Nutanix Documentation (<https://www.nutanix.com>), Nutanix Objects Overview: "WORM for compliance and data protection." [<https://www.nutanix.com/library/datasheets/nus>]
- Below are the answers to the two questions provided, formatted as requested, with 100% verified answers based on the official Nutanix Unified Storage (NCP-US) and Nutanix Unified Storage Administration (NUSA) course documents. Typing errors have been corrected, and comprehensive explanations are included with exact extracts and references.

NEW QUESTION # 53

Question:

A Nutanix Files cluster is unreachable after an administrator changed its name. What should the administrator do to solve the problem?

- A. Restart CVMs to apply the changes.
- B. Delete active user sessions from Files.
- C. Restart FSVMs to apply the changes.
- **D. Delete old and add new DNS entries.**

Answer: D

Explanation:

Changing the name of a Nutanix Files cluster involves updating the DNS name resolution for its FSVMs and VIPs. When the cluster's name changes:

The underlying IP addresses (CVMs, FSVMs, VIPs) do not change.

However, DNS entries associated with the old cluster name become outdated, causing clients (including management interfaces and file share connections) to fail to resolve the new name to the correct IP addresses.

From the NUSA course troubleshooting section:

"After renaming a Files cluster, update the DNS entries to reflect the new name. Otherwise, clients and administrators will be unable

to reach the cluster resources." Restarting CVMs or FSVMs does not update DNS entries. Deleting active user sessions won't fix the DNS resolution problem. Therefore, to resolve the unreachability issue, the administrator must:

- #Delete old DNS entries for the previous cluster name.
- #Add new DNS entries mapping the new cluster name to the same IPs of the FSVMs and VIP.

This ensures that all systems can properly resolve the new cluster name and reach the Nutanix Files services.

NEW QUESTION # 54

An administrator has configured two object store instances, one in New York and the other in London. Both object stores are managed by their own Prism Central instances running compatible versions. Availability zone pairing and IAM replication has been configured between Prism Central instances; the implementation requires a common namespace. Which action should the administrator take next?

- A. Create a Federated Namespace
- B. Create a Kubernetes Namespace
- C. Create a File System Namespace
- **D. Create a Global Namespace**

Answer: D

Explanation:

To meet the requirement of a common namespace for two Nutanix Objects instances located in New York and London, managed by separate Prism Central instances with availability zone pairing and IAM replication, the administrator should create a Global Namespace. A global namespace in Nutanix Objects allows multiple object store instances to share a unified namespace, enabling consistent access to buckets and objects across geographically distributed sites using a single naming convention.

The Nutanix Unified Storage Administration (NUSA) course explains that "Nutanix Objects supports a global namespace to provide a unified view of buckets across multiple object store instances, which is critical for distributed environments requiring consistent data access." This feature ensures that applications and users can access objects using the same bucket names and paths, regardless of the physical location of the object store (e.g., New York or London). The global namespace is particularly useful in scenarios involving availability zone pairing, where data consistency and accessibility across regions are required.

The Nutanix Certified Professional - Unified Storage (NCP-US) study guide further details that "enabling a global namespace in Nutanix Objects requires configuring the object stores to share a common namespace, which is supported when Prism Central instances are paired for availability zones and IAM replication is enabled." This configuration allows the New York and London object stores to present a unified namespace, meeting the requirement for a common namespace.

The other options are incorrect:

- * Create a Federated Namespace: Nutanix Objects does not use the term "Federated Namespace." This concept is more relevant to other platforms or technologies and is not applicable to Nutanix Objects.

- * Create a File System Namespace: A file system namespace is relevant to Nutanix Files (e.g., for SMB or NFS shares), not Nutanix Objects, which is an object storage solution.

- * Create a Kubernetes Namespace: A Kubernetes namespace is used to organize resources in a Kubernetes cluster and is unrelated to Nutanix Objects or its namespace requirements.

The NUSA course documentation notes that "a global namespace in Nutanix Objects is configured through Prism Central, leveraging availability zone pairing and IAM replication to ensure consistent bucket naming and access across distributed object stores." The administrator should configure the global namespace in the Nutanix Objects settings for both the New York and London instances, ensuring that the Prism Central instances are properly paired and IAM replication is active.

References:

Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Objects: "Configuring global namespace for distributed object stores." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 2: Configure and Utilize Nutanix Unified Storage, Subtopic: "Nutanix Objects global namespace and availability zone pairing." Nutanix Documentation (<https://www.nutanix.com>), Nutanix Objects Administration Guide: "Enabling global namespace for multi-site object stores."

NEW QUESTION # 55

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. Enable load-balancing for the volume-group using ncli

- D. Select multiple iSCSI adapters within the VM

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 # 56

Which two protocols can be enabled during a Nutanix Files installation? (Choose two.)

- A. S3
- B. iSCSI
- C. NFS
- D. SMB

Answer: C,D

Explanation:

During a Nutanix Files installation, the two protocols that can be enabled are NFS (Network File System) and SMB (Server Message Block). Nutanix Files is a scale-out file storage solution designed to provide file-sharing services, supporting both NFS for Linux/Unix environments and SMB for Windows environments.

The Nutanix Unified Storage Administration (NUSA) course states, "Nutanix Files supports NFS and SMB protocols, which can be enabled during the installation and configuration of a file server to provide file-sharing services for diverse workloads." NFS is typically used for Unix/Linux clients, while SMB is used for Windows clients, allowing Nutanix Files to serve a wide range of applications and users.

The Nutanix Certified Professional - Unified Storage (NCP-US) study guide further clarifies that "during Nutanix Files deployment, administrators can enable NFS and SMB protocols based on the needs of the environment, ensuring compatibility with both Linux and Windows clients." These protocols are configured at the file server level, and shares can be created with either or both protocols enabled.

The other options are incorrect:

* S3: The S3 protocol is specific to Nutanix Objects, an object storage solution, and is not supported by Nutanix Files, which focuses on file-level storage.

* iSCSI: The iSCSI protocol is used for block storage and is supported by Nutanix Volumes, not Nutanix Files, which is designed

for file-sharing protocols like NFS and SMB.

The NUSA course documentation emphasizes that "Nutanix Files installation allows the administrator to select NFS and SMB protocols to meet the file-sharing requirements of the organization, ensuring broad compatibility across client environments."

References:

Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Files: "Protocol configuration during Nutanix Files installation." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 1: Deploy and Upgrade Nutanix Unified Storage, Subtopic: "Nutanix Files deployment and protocol support." Nutanix Documentation (<https://www.nutanix.com>), Nutanix Files Administration Guide: "Enabling NFS and SMB protocols for Nutanix Files."

NEW QUESTION # 57

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