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

## Questions (Q24-Q29):

### NEW QUESTION # 24

Question:

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

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

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 # 25

Which Nutanix Objects metric provides the total input requests per second of a bucket?

- A. Gets
- B. Puts
- C. Throughput
- D. NFS Reads

Answer: B

Explanation:

In Nutanix Objects metrics:

\* Puts: Measures PUT requests per second (object uploads), representing input operations.

\* Gets (Option C): Measures output (download) requests.

\* Throughput (Option B): Reports bandwidth (MB/s), not request rate.

\* NFS Reads (Option D): Specific to NFS access, not general bucket input.

Reference: Nutanix Objects Administration Guide:

"The Puts metric tracks the number of successful object write operations (PUTs) per second to a bucket, indicating input request volume." (Chapter: "Monitoring Object Store Performance") Nutanix Unified Storage (NCP-US) Study Material:

"Use the 'Puts' metric to monitor ingress request rates for capacity planning and performance tuning." (Section: "Objects Performance Analysis")

### NEW QUESTION # 26

An administrator has a primary Nutanix Files instance running on an ESXi-based Nutanix cluster. An identical Files instance has been configured at a secondary site for disaster recovery purposes with less than 5ms latency between sites.

Management has asked that the primary Files instance be configured in such a way that provides a zero RPO.

Which File Server option needs to be enabled to support the request?

- A. Metro Protection Policy

- B. vSphere Cluster Availability
- **C. Metro Protection Domain**
- D. vSphere Cluster Services

#### Answer: C

Explanation:

The Nutanix Unified Storage Administration (NUSA) course, in the module "Configuring Metro Availability for Nutanix Files," specifies that for zero RPO between two Nutanix Files instances, a Metro Protection Domain (Metro PD) must be enabled. This synchronous replication method ensures zero data loss (RPO = 0) and near-instantaneous failover capability between two sites with low latency.

The course states:

"For Nutanix Files running on two clusters with <5ms latency, Metro Protection Domains enable synchronous replication of Files data, ensuring zero RPO in the event of a failure." Reference:

Nutanix Unified Storage Administration (NUSA) course - Module: Configuring Metro Availability for Nutanix Files.

Nutanix Unified Storage (NCP-US) Study Guide - Topic: Zero RPO with Metro Protection Domains.

#### NEW QUESTION # 27

Question:

A Nutanix Files cluster is unreachable after an administrator changed its name.

What should the administrator do to solve the problem?

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

#### Answer: A

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 # 28

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

**Answer: D**

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 # 29

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