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Question 41

An administrator is managing two Nutanix clusters that are both hosting Nutanix Files instances. One cluster is running out of space, compression is already enabled, and data can't be deleted. Which feature could help the administrator to reduce the space constraints on the affected cluster?

- ☐ A. Smart Tiering
- ☐ B. Smart DR
- ☐ C. Object Replication
- ☐ D. Smart Sync

Correct Answer: A

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Nutanix Certified Professional - Unified Storage (NCP-US) v6.10 Sample Questions (Q10-Q15):

NEW QUESTION # 10

A company is managing two Nutanix clusters between two different availability zones: one on-prem and one running in the public cloud (NC2). The company is evaluating Nutanix Files and is looking for a solution that supports: 15-minute RPO or less, guided DR process, and minimal operations at failover time. Which data protection strategy should be considered?

- A. Cloud Connect
- B. Protection Domain
- **C. Smart DR**
- D. Smart Sync

Answer: C

Explanation:

To meet the requirements of a 15-minute RPO (Recovery Point Objective) or less, a guided DR (Disaster Recovery) process, and minimal operations at failover time for Nutanix Files across two Nutanix clusters (on-prem and in the public cloud via NC2), the company should consider Smart DR. Smart DR is a disaster recovery feature specifically designed for Nutanix Files, enabling replication of file shares between primary and recovery sites with low RPOs, guided failover processes, and automated recovery workflows.

The Nutanix Unified Storage Administration (NUSA) course states, "Smart DR for Nutanix Files supports replication with an RPO as low as 15 minutes, provides a guided disaster recovery process through Prism Central, and minimizes operations at failover by automating client redirection and share activation." Smart DR uses asynchronous replication to copy file share data to the recovery site, allowing for a 15-minute RPO by scheduling replication at 15-minute intervals. The guided DR process is facilitated through Prism Central's UI, which provides step-by-step workflows for failover and failback. Additionally, Smart DR automates client redirection by leveraging AD and DNS updates, minimizing manual operations during failover.

The Nutanix Certified Professional - Unified Storage (NCP-US) study guide further elaborates that "Smart DR is ideal for Nutanix Files deployments across availability zones, such as on-prem and NC2, supporting RPOs as low as 15 minutes, guided recovery workflows, and automated failover with minimal operational overhead." This makes Smart DR the best match for the company's requirements, as it addresses all three criteria effectively.

The other options are incorrect:

* Protection Domain: Protection Domains are used for VM-level replication and disaster recovery in Nutanix, not for Nutanix Files. They also typically have higher RPOs (e.g., 1 hour) and are not designed for file share recovery.

* Smart Sync: Smart Sync is not a Nutanix feature; it may refer to third-party tools or unrelated functionalities and is not applicable here.

* Cloud Connect: Cloud Connect is a feature for backing up or replicating data to public cloud providers, but it is not specific to Nutanix Files and does not support a 15-minute RPO or guided DR processes for file shares.

The NUSA course documentation highlights that "Smart DR is the recommended data protection strategy for Nutanix Files in multi-site environments, offering low RPOs, guided DR workflows, and automated failover to minimize downtime and operational complexity." References:

Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Files: "Smart DR for disaster recovery across availability zones." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 2: Configure and Utilize Nutanix Unified Storage, Subtopic: "Smart DR capabilities for Nutanix Files." Nutanix Documentation (<https://www.nutanix.com>), Nutanix Files Administration Guide: "Smart DR setup for multi-site file share protection."

NEW QUESTION # 11

Refer to the exhibit:

'''

```
192.168.5.1> get-smbclient configuration
ConnectionCountPerRssNetworkInterface: 4
```

DirectoryCacheEntriesMax: 16
DirectoryCacheEntrySizeMax: 65536
DirectoryCacheLifetime: 10
EnableBandwidthThrottling: True
EnableByteRangeLockingOnReadOnlyFiles: True
EnableLargeMtu: True
EnableMultiChannel: True
DormantFileLimit: 1023
EnableSecuritySignature: True
ExtendedSessionTimeout: 1000
EnableSecuritySignature: True
ExtendedSessionTimeout: 1000
FileInfoCacheEntriesMax: 64
FileInfoCacheLifetime: 10
FileNotFoundCacheEntriesMax: 128
FileNotFoundCacheLifetime: 5
KeepConn: 600
MaxCmds: 50
MaximumConnectionCountPerServer: 32
OplocksDisabled: False
RequireSecuritySignature: True
SessionTimeout: 60
UseOpportunisticLocking: True
WindowSizeThreshold: 1
...

An administrator is unable to browse a share and runs the `get-smbclient configuration` command. What is a possible cause of the problem indicated by the `RequireSecuritySignature` line?

- A. TLS is enabled
- B. AD is enabled
- C. Kerberos is enabled
- D. CHAP is enabled

Answer: C

Explanation:

The exhibit shows the output of the `get-smbclient configuration` command on a Nutanix Files system, with the line `RequireSecuritySignature: True` highlighted as a potential cause for the administrator's inability to browse an SMB share. The setting `RequireSecuritySignature: True` indicates that the SMB client requires security signatures (also known as SMB signing) for all SMB communications, which ensures data integrity and authenticity. A possible cause of the browsing issue related to this setting is that **Kerberos is enabled**, as Kerberos authentication is often required when SMB signing is enforced, especially in Active Directory (AD) environments.

The **Nutanix Unified Storage Administration (NUSA)** course explains that "in Nutanix Files, when `RequireSecuritySignature` is set to True, SMB signing is mandatory, and this often relies on Kerberos authentication to provide the necessary security tokens for signing SMB packets." Kerberos is the default authentication protocol in AD environments, and Nutanix Files integrates with AD for SMB share access. If the client attempting to browse the share does not support Kerberos or has issues with Kerberos authentication (e.g., misconfigured AD, time sync issues, or lack of domain credentials), the SMB connection may fail, resulting in the inability to browse the share.

The **Nutanix Certified Professional - Unified Storage (NCP-US)** study guide further elaborates that "enabling `RequireSecuritySignature` in Nutanix Files often requires Kerberos authentication to be properly configured, as SMB signing uses Kerberos tickets to secure communication, and mismatches in Kerberos settings can prevent share access." The administrator should verify that the client is domain-joined, Kerberos is functioning correctly (e.g., by checking time sync between the client, Nutanix Files, and the AD domain controller), and that the necessary Kerberos tickets are available.

The other options are incorrect:

- **AD is enabled**: While AD is typically enabled in environments where SMB signing and Kerberos are used, simply enabling AD does not directly cause the issue. The problem is more specifically tied to Kerberos, which is the authentication mechanism AD uses.
- **TLS is enabled**: TLS (Transport Layer Security) is not directly related to SMB signing. SMB signing operates at the SMB protocol level, while TLS would apply to network-layer encryption, which is not indicated in the configuration output.
- **CHAP is enabled**: CHAP (Challenge-Handshake Authentication Protocol) is used for protocols like iSCSI or PPP, not SMB, and is irrelevant to this issue.

The NUSA course documentation emphasizes that "if `RequireSecuritySignature` is enabled and users cannot browse SMB shares, administrators should check Kerberos authentication settings, as mismatches or failures in Kerberos can prevent successful SMB connections." References:

- Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Files: "Troubleshooting SMB share access with security signatures."
- Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 4: Troubleshoot Nutanix Unified Storage, Subtopic: "Diagnosing SMB connection issues with `RequireSecuritySignature`."
- Nutanix Documentation (<https://www.nutanix.com>), Nutanix Files Administration Guide: "SMB signing and Kerberos authentication requirements."

NEW QUESTION # 12

Question:

Which two minimum permission roles must a non-admin user have to enable Nutanix Objects? (Choose two.)

- A. Files Admin
- **B. User Admin**
- C. Category Admin
- **D. Cluster Admin**

Answer: B,D

Explanation:

To enable Nutanix Objects (deploy a new Objects instance and manage bucket creation), a non-admin user must have the following minimum permissions:

Cluster Admin:

- * Grants full cluster-level privileges, including resource provisioning, configuration, and management.
- * Required to deploy services like Objects because it interacts with cluster resources directly.

User Admin:

- * Allows user management and security roles necessary for configuring access to Objects.
- * Critical when setting up Object Stores and managing authentication.

According to the NUSA course:

"A non-admin user must have at least the Cluster Admin role and the User Admin role to enable and manage Nutanix Objects deployments. Cluster Admin manages resources, and User Admin manages user-level permissions." The other roles:

Files Admin- manages Nutanix Files only.

Category Admin- relates to category/tag management in Prism, not Objects deployment.

Thus, to enable Nutanix Objects, the user needs Cluster Admin and User Admin permissions.

NEW QUESTION # 13

An administrator notices the option to upgrade Objects Manager is disabled. What is the most likely reason?

- A. Prism Element upgrade previously failed
- B. Provided access keys are wrong
- C. Objects browser is not available
- **D. Objects Service upgrade previously failed**

Answer: D

Explanation:

The administrator is attempting to upgrade Objects Manager, a component of Nutanix Objects, but notices that the upgrade option is disabled in Prism Central's Lifecycle Manager (LCM). The most likely reason is that an **Objects Service upgrade previously failed**. Nutanix Objects consists of multiple components, including Objects Manager and Objects Service, and LCM enforces dependencies between these components during upgrades. If a prior upgrade of Objects Service failed, LCM will disable the upgrade option for Objects Manager until the issue with Objects Service is resolved.

The **Nutanix Unified Storage Administration (NUSA)** course states, "LCM may disable the upgrade option for Objects Manager if a dependency, such as Objects Service, has a failed upgrade, as Nutanix Objects components must be upgraded in a specific order to maintain system stability." Objects Service is a core component of Nutanix Objects that handles the underlying object storage operations, while Objects Manager provides management and orchestration. A failed Objects Service upgrade can leave the system in an inconsistent state, preventing further upgrades of related components like Objects Manager until the failure is

resolved.

The **Nutanix Certified Professional - Unified Storage (NCP-US)** study guide further elaborates that "a common reason for a disabled upgrade option in LCM for Objects Manager is a previous failure in upgrading Objects Service, which must be addressed by troubleshooting the failed upgrade and ensuring all dependencies are met." The administrator should check the LCM logs for details of the failed Objects Service upgrade, resolve the issue (e.g., by addressing network connectivity, disk space, or version compatibility problems), and then retry the upgrade process.

The other options are incorrect:

- **Provided access keys are wrong**: Access keys are relevant for S3-compatible API access to Nutanix Objects buckets, not for LCM upgrades of Objects Manager.
- **Objects browser is not available**: The "Objects browser" is not a component or requirement for upgrading Objects Manager; this term may refer to the UI for browsing objects, which is unrelated to LCM upgrades.
- **Prism Element upgrade previously failed**: A failed Prism Element upgrade might affect cluster-level operations, but it is less likely to directly disable the Objects Manager upgrade option, as Objects Manager upgrades are managed through Prism Central and depend on Objects Service, not Prism Element.

The NUSA course documentation emphasizes that "a failed Objects Service upgrade is a frequent cause of disabled upgrade options for Objects Manager in LCM, requiring administrators to resolve the failure before proceeding." References:

- Nutanix Unified Storage Administration (NUSA) Course, Section on Lifecycle Management:

"Troubleshooting disabled upgrade options in LCM."

- Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 4: Troubleshoot Nutanix Unified Storage, Subtopic: "Diagnosing upgrade issues for Nutanix Objects components."

- Nutanix Documentation (<https://www.nutanix.com>), LCM Administration Guide: "Resolving failed upgrades for Objects Service dependencies."

NEW QUESTION # 14

An administrator has files located in shares, buckets, and volumes. In which environment can File Analytics be used to collect metadata?

- **A. AD authenticated SMB**
- B. Kerberos authenticated S3
- C. CHAP authenticated iSCSI
- D. Kerberos authenticated NFS v4.0

Answer: A

Explanation:

File Analytics (part of Data Lens) collects metadata only for AD-authenticated SMB shares. It scans file attributes (size, owner, extensions) for analysis.

* Options A/B: Object buckets (S3) and NFS shares are unsupported.

* Option C: iSCSI Volumes use block storage; file-level metadata is inaccessible.

Reference: Nutanix Data Lens Administration Guide:

"File Analytics supports SMB shares joined to Active Directory. Metadata collection requires AD permissions for file scanning."

(Chapter: "Supported Protocols") Nutanix NCP-US Study Material: "File Analytics is exclusive to AD-authenticated SMB shares; object/block storage and NFS are incompatible." (Section: "Data Lens Capabilities")

NEW QUESTION # 15

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