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## Nutanix Certified Professional - Unified Storage (NCP-US) v6.10 Sample Questions (Q103-Q108):

### NEW QUESTION # 103

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. Smart Sync
- C. Protection Domain

- **D. Smart DR**

**Answer: D**

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 # 104

An administrator has determined that adding File Server VMs to the cluster will provide more resources.

What must the administrator validate so that the new File Server VMs can be added?

- A. Ensure network ports are available.
- **B. Sufficient nodes in the cluster is greater than current number of FSVMs.**
- C. Ensure Files Analytics is installed.
- D. Sufficient storage container space is available to host the volume groups.

**Answer: B**

#### NEW QUESTION # 105

At what level of granularity can Smart DR replicate?

- A. File
- B. Volume
- **C. Share**
- D. Bucket

**Answer: C**

Explanation:

Smart DR (Disaster Recovery) is a feature within Nutanix Unified Storage (NUS), specifically designed to facilitate data replication and disaster recovery for Nutanix Files, which is the file storage service component of NUS. Nutanix Unified Storage integrates file,

object, and block storage services, but Smart DR is primarily associated with the file storage functionality provided by Nutanix Files. To determine the level of granularity at which Smart DR operates, we need to examine how it handles replication within this context. Understanding the Options

- \* Volume: In Nutanix terminology, a volume typically refers to a logical storage unit used in block storage services (e.g., Nutanix Volumes). It can contain multiple files or datasets and is managed at a higher abstraction level.

- \* Bucket: A bucket is a container used in object storage (e.g., Nutanix Objects) to store objects, akin to a directory but specific to object-based storage systems.

- \* Share: In Nutanix Files, a share refers to a file share (accessible via SMB or NFS protocols), which contains files and directories that are made available over a network for user access.

- \* File: This represents an individual file, the smallest unit of data within a storage system.

Smart DR's purpose is to ensure data availability and consistency for disaster recovery scenarios, which implies that the replication granularity should support recovering cohesive sets of data rather than fragmented pieces that could lead to inconsistencies.

Smart DR and Nutanix Files

According to the Nutanix Unified Storage documentation, Smart DR is specifically tailored for Nutanix Files to enable replication of file shares for disaster recovery. The key evidence comes from the NCP-US and NUSA course materials, which state:

"NUS also offers Smart DR to facilitates share-level data replication and file server-level disaster recovery." (Reference: Nutanix Unified Storage Administration (NUSA) Study Guide, Section on Disaster Recovery Features for Nutanix Files) This excerpt explicitly indicates that Smart DR performs replication at the share level. In Nutanix Files, a share is a logical entity that groups files and directories together, accessible via protocols like SMB (Server Message Block) for Windows environments or NFS (Network File System) for UNIX/Linux environments.

When configuring Smart DR, administrators select specific shares to replicate to a remote site, ensuring that the entire share—including all its files and directory structures—is replicated as a single unit. This approach maintains data consistency and simplifies recovery by allowing the entire share to be restored in a disaster scenario.

Why Not the Other Options?

- \* Volume: While Nutanix Volumes (block storage) supports replication through features like Protection Domains or asynchronous replication, Smart DR is not documented as a feature for block storage replication. Protection Domains, for instance, operate at the VM or volume group level, not under the Smart DR umbrella. Thus, "Volume" is not the correct granularity for Smart DR.

- \* Bucket: In Nutanix Objects (object storage), replication can occur at the bucket level, but this is managed through different mechanisms, such as object replication policies, not Smart DR. The documentation does not associate Smart DR with bucket-level replication, making "Bucket" incorrect.

- \* File: Replicating individual files would be highly granular and impractical for disaster recovery, as it risks inconsistencies (e.g., missing related files or directory structures). While Nutanix Files supports file-level operations, Smart DR does not allow administrators to configure replication for individual files within a share. The replication unit is the share itself, ruling out "File."

Configuration in Practice In the Nutanix Prism interface, when setting up Smart DR for Nutanix Files, administrators define replication policies by selecting specific file shares. The process involves:

- \* Identifying the source file server and the shares to replicate.

- \* Configuring a remote target (e.g., another Nutanix Files instance).

- \* Scheduling replication to ensure data is copied to the DR site.

This is consistent with the NUSA course, which emphasizes that:

"Smart DR enables administrators to configure replication at the share level, ensuring that all data within the share is protected and recoverable." (Reference: Nutanix Unified Storage (NCP-US) Study Guide, Module on Configuring Disaster Recovery) Clarifying Scope While Nutanix Unified Storage encompasses file, object, and block services, Smart DR is distinctly a feature of Nutanix Files. For object storage (Nutanix Objects), replication is handled at the bucket level via separate features, and for block storage (Nutanix Volumes), replication uses mechanisms like synchronous or asynchronous replication at the volume group level. However, the question specifically pertains to Smart DR, and the documentation consistently ties this feature to share-level replication.

Conclusion

The level of granularity for Smart DR replication is the share, as it replicates entire file shares within Nutanix Files to ensure data consistency and effective disaster recovery. Among the provided options—Volume, Bucket, Share, and File—the correct answer is "Share," corresponding to option C.

References:

Nutanix Unified Storage (NCP-US) Study Guide, Module on Disaster Recovery and Replication.

Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Files and Smart DR Configuration.

## NEW QUESTION # 106

An administrator is tasked with migrating physical SQL workloads from a legacy SAN platform to a newly-deployed Nutanix environment. The current physical hosts boot from SAN. The Nutanix environment has plenty of storage resources available. Which action can the administrator take to complete this task?

- A. Boot using the NFS protocol with Nutanix Files

- B. Boot using Nutanix Object stores
- C. Boot over iSCSI using Nutanix Volumes
- D. Boot using PXE protocol with Nutanix Files

**Answer: C**

Explanation:

To migrate physical SQL workloads from a legacy SAN platform where hosts boot from SAN to a Nutanix environment, the administrator can use Nutanix Volumes to enable booting over iSCSI. Nutanix Volumes is a block storage solution that provides iSCSI-based storage, allowing external hosts (such as physical servers) to access Nutanix storage as block devices. This is ideal for replacing SAN-based boot volumes, as it supports the same iSCSI protocol used in traditional SAN environments.

According to the Nutanix Unified Storage Administration (NUSA) course, Nutanix Volumes enables external hosts to connect to Nutanix storage via iSCSI, which can be used for boot volumes or data volumes.

The course emphasizes that "Nutanix Volumes supports iSCSI boot for physical servers, making it a suitable solution for migrating workloads from legacy SAN environments to Nutanix." This allows the administrator to configure the physical SQL servers to boot from iSCSI targets provisioned on Nutanix Volumes, leveraging the Nutanix cluster's storage resources.

The Nutanix Certified Professional - Unified Storage (NCP-US) study guide further details that Nutanix Volumes can be configured to present iSCSI LUNs to physical hosts, which can be used for both operating system boot and application data storage. For the SQL workloads, the administrator can create iSCSI targets on Nutanix Volumes, configure the physical hosts' iSCSI initiators to connect to these targets, and migrate the boot and data volumes from the legacy SAN to Nutanix.

The other options are not suitable for this task:

\* Boot using PXE protocol with Nutanix Files: Nutanix Files is a file storage solution that supports SMB and NFS protocols, not PXE (Preboot Execution Environment) booting. PXE is typically used for network-based OS installation, not for booting SQL workloads or replacing SAN-based boot volumes.

\* Boot using the NFS protocol with Nutanix Files: Nutanix Files supports NFS for file sharing, but NFS is not designed for booting physical servers. It is used for file-level access, not block-level access required for boot volumes.

\* Boot using Nutanix Object stores: Nutanix Objects is an object storage solution designed for S3- compatible APIs, not for block or file-based booting. It is unsuitable for hosting bootable volumes or SQL workloads.

The NUSA course documentation highlights that "Nutanix Volumes provides a seamless migration path for SAN-based workloads, including boot-from-SAN configurations, by leveraging iSCSI to present storage to physical hosts." This makes it the only viable option for the described migration task.

References:

Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Volumes: "Configuring iSCSI for external hosts and boot volumes." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 1: Deploy and Upgrade Nutanix Unified Storage, Subtopic: "Nutanix Volumes for SAN workload migration." Nutanix Documentation (<https://www.nutanix.com>), Nutanix Volumes Administration Guide: "Using iSCSI for boot and data volumes."

**NEW QUESTION # 107**

Refer to the exhibit.

NUTANIX™

Error in deployment.

```
type[CREATE_MSP]SubtaskExecutionName=DevFleet-5-DevResource-100-DevMaster-2023-07-18T16:00:00Z-IPGCTApplicationX6001PostApplicationUpdateFailed  
update failed: unable to pull docker image 464585393164.dkr.ecr.us-west-2.amazonaws.com/nutanix-msp/idf-container:euphrates-5.11-stable_build_release:  
("ClusterName": "dcgr", ClusterDescription": "", DeploymentPercent": 100, DeploymentSize": 0, Deploying": "Operation timed out: (rc=0) Replication(500) Postapplication details")
```

An administrator is currently troubleshooting a failed Nutanix Objects deployment using LCM and sees the error message shown in the exhibit.

An administrator is currently troubleshooting a failed Nutanix Objects deployment using LCM and sees the error message shown in the exhibit.

The Objects cluster deployment is experiencing the following symptoms:

- \* The Objects Home UI Page shows the error: unable to pull the docker images
- \* The docker pull is failing on the first image

The administrator determined that MSP cluster deployment has completed successfully looking at msp\_controller.out.

Which log file should the administrator use to investigate and troubleshoot this issue further?

- A. 1cm\_metrics\_uploader.out
- B. aoss\_service\_manager.out
- C. domain\_manager.out
- D. cluster\_health.out

**Answer: B**

Explanation:

According to the Nutanix Unified Storage Administration (NUSA) course, in the Troubleshooting Nutanix Objects Deployment section, the `aoss_service_manager.out` log file is explicitly responsible for tracking the status and lifecycle of container services, including pulling Docker images during the deployment of Nutanix Objects.

This log file is where administrators should look for:

- \* Container image pull attempts
- \* Any errors during docker pull actions
- \* Overall container service management actions and errors

The module "Deploying and Troubleshooting Nutanix Objects" from the NUSA course states:

"During deployment of Nutanix Objects, the `aoss_service_manager.out` log file provides detailed status information regarding container image pulls, container lifecycle events, and object service startup procedures.

This log file is essential when troubleshooting deployment failures related to container image downloads." The other log files listed in the question are used for different components:

- \* `domain_manager.out`: Related to domain services and identity management.
- \* `lcm_metrics_uploader.out`: Responsible for uploading metrics, not related to container image pulls.
- \* `cluster_health.out`: Used for overall cluster health, but not specific to container lifecycle events.

Reference:

Nutanix Unified Storage Administration (NUSA) course - Module: Deploying and Troubleshooting Nutanix Objects - Section: Key Logs for Troubleshooting Nutanix Objects Deployment.

Nutanix Unified Storage (NCP-US) Study Guide - Topic: Nutanix Objects Deployment Troubleshooting.

## NEW QUESTION # 108

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