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Nutanix Certified Professional - Unified Storage (NCP-US) v6.10 Sample Questions (Q29-Q34):

NEW QUESTION # 29

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

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

Answer: C

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 # 30

An administrator has recently added several NGT-enabled VMs with in-guest iSCSI initiators to a Volume Group (VG) using IP addresses in the VG allowlist. Several days later, the administrator restored the VG, after which the VMs lost connectivity to the Volume Group.

What should the administrator have done differently to prevent this from happening?

- A. Use the NIC MAC address of the VM's in the VG allow list.
- **B. Use the iSCSI IQN entry in the VG allowlist.**
- C. Use the VM UUID in the VG allow list.
- D. Use the VM hostname in the VG allowlist.

Answer: B

Explanation:

Volume Groups (VGs) require persistent identifiers for initiators in the allowlist. IP addresses can change during VM restores/reboots, breaking connectivity. The iSCSI Qualified Name (IQN) is a static, unique identifier for iSCSI initiators and persists across VM operations, ensuring stable access.

* Option B/C/D (VM UUID, hostname, MAC): These are unrelated to iSCSI authentication. Nutanix Volume Groups exclusively use IQNs or IPs (not recommended) for allowlisting.

Reference:Nutanix Unified Storage Administration (NUSA) Course Study Guide:

"Always use iSCSI IQN in Volume Group allowlists for NGT-enabled VMs. IP addresses are ephemeral and may change after restores, causing connectivity loss."(Section: "Configuring Volume Group Access Control") (Module: "Nutanix Volumes Best Practices") Nutanix Volumes Documentation:

"For persistent iSCSI connectivity, configure the allowlist with initiator IQNs instead of dynamic IP addresses."(Source: Volumes Configuration Guide, "Allowlist Management")

NEW QUESTION # 31

Question:

An administrator needs to stop an FSVM.

What should the administrator check before stopping a specific FSVM?

- A. Is SSR configured in the cluster.
- **B. High Availability (HA) state.**
- C. Is VDI Sync configured.
- D. Data Protection status.

Answer: B

Explanation:

FSVMs (File Server VMs)are essential for delivering file services (SMB/NFS) in Nutanix Files. Each FSVM is responsible for handling client connections and file access requests.Stopping an FSVMcan temporarily disrupt file share access if not properly coordinated.

TheHigh Availability (HA) stateis thecritical factorto check before stopping an FSVM because:

TheNUSA and NCP-US coursesemphasize:

"In a Nutanix Files deployment, High Availability (HA) for FSVMs ensures that client connections are redistributed to other FSVMs in the cluster when an FSVM is stopped or fails. Before stopping an FSVM, administrators must confirm that HA is enabled to avoid data access disruption." If HA is disabled or misconfigured:

* Stopping an FSVM could lead toclient disconnectionsand potential data access issues.

* Thefiles servicemay temporarily becomeunavailablefor the workloads handled by that FSVM.

The other options are not directly related to stopping FSVMs:

Data Protection status- more relevant to snapshots and replication, not FSVM runtime status.

VDI Sync- relates to desktop sync, not FSVM management.

SSR (Self-Service Restore)- depends on file share snapshots, not FSVM status.

Thus, the best practice is to check HA status to ensure a seamless failover and minimal service impact before stopping the FSVM.

NEW QUESTION # 32

An administrator would like to protect an object store from a single node or two-drive failure. What are the requirements for enabling this level of resiliency on a newly-deployed object store?

- A. Cluster is comprised of a minimum of seven nodes.
- B. New storage container is created for the object store.
- C. Multi-cluster option must be disabled for the object store.
- D. Each node in the dense node platform requires 20 or more HDDs.

Answer: A

Explanation:

To protect a Nutanix Objects store from a single node or two-drive failure, the cluster must be comprised of a minimum of seven nodes. Nutanix Objects uses erasure coding to provide resiliency, distributing data and parity fragments across nodes to ensure fault tolerance. To withstand a single node failure or a two-drive failure, a specific number of nodes is required to maintain data availability and rebuild capability.

The Nutanix Unified Storage Administration (NUSA) course states, "Nutanix Objects requires a minimum of seven nodes to ensure resiliency against a single node failure or a two-drive failure, using erasure coding to distribute data and parity across the cluster."

This configuration typically uses an erasure coding scheme like

4+2 or 5+2 (data + parity fragments), which requires at least six nodes for data distribution and an additional node to handle failures, totaling seven nodes.

The Nutanix Certified Professional - Unified Storage (NCP-US) study guide further elaborates that "to achieve resiliency against a single node or two-drive failure in Nutanix Objects, the cluster must have at least seven nodes to support the erasure coding configuration needed for this level of fault tolerance." This ensures that even if one node fails or two drives are lost, the remaining nodes have sufficient data and parity fragments to reconstruct the lost data.

The other options are incorrect:

* Multi-cluster option must be disabled for the object store: The multi-cluster option is not relevant to resiliency within a single Nutanix Objects deployment. It pertains to managing multiple clusters, not erasure coding or fault tolerance.

* Each node in the dense node platform requires 20 or more HDDs: There is no requirement for 20 or more HDDs per node to achieve this level of resiliency. Resiliency depends on the number of nodes and erasure coding, not the number of drives per node.

* New storage container is created for the object store: While Nutanix Objects uses storage containers, creating a new container is not a requirement for enabling resiliency. Resiliency is determined by the cluster configuration and erasure coding settings.

The NUSA course documentation highlights that "a minimum of seven nodes ensures Nutanix Objects can maintain data availability and rebuild data in the event of a single node or two-drive failure, leveraging erasure coding for resiliency." References:

Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Objects: "Configuring resiliency for Nutanix Objects."

Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 2: Configure and Utilize Nutanix Unified Storage,

Subtopic: "Nutanix Objects resiliency and erasure coding requirements." Nutanix Documentation (<https://www.nutanix.com>),

Nutanix Objects Administration Guide: "Cluster sizing for resiliency in Nutanix Objects."

NEW QUESTION # 33

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

Answer: D

Explanation:

Comprehensive and Detailed Explanation from Nutanix Unified Storage (NCP-US) and Nutanix Unified Storage Administration (NUSA) course documents:

In the context of expanding Nutanix Files (which is the file services capability of Nutanix Unified Storage), adding additional File Server VMs (FSVMs) to the cluster allows the file service to scale out and provide more resources for file services workloads, including performance and capacity improvements.

The Nutanix Files architecture involves deploying FSVMs that are distributed across the cluster nodes. Each FSVM handles file protocol operations and interacts with the underlying Nutanix Distributed Storage Fabric (DSF).

Here's what's critical when adding new FSVMs:

- * **Sufficient Cluster Nodes Requirement:** The Nutanix Unified Storage Administration (NUSA) course emphasizes that the number of FSVMs cannot exceed the number of physical nodes in the cluster.

This is because each FSVM is deployed as a VM on a physical node, and Nutanix best practices require that FSVMs be spread out evenly across available nodes for performance, load balancing, and resiliency. Therefore, you must ensure:

"The number of nodes in the cluster must be greater than or equal to the number of FSVMs you plan to deploy." This ensures that FSVMs are properly balanced and have the physical resources they need for optimal operation.

- * **Network Ports:** While ensuring that appropriate network ports are configured is important for the operation of Nutanix Files (including communication with clients via SMB/NFS and integration with Prism), it is not the gating factor for adding new FSVMs. The critical factor is the available cluster nodes.

- * **Storage Container Space:** Storage container space is also essential for file data storage, but this is not a direct requirement when simply adding FSVMs. FSVMs use the existing DSF storage, and as long as there is available storage capacity overall, adding FSVMs does not require validating specific volume group space.

- * **Files Analytics:** Files Analytics is an optional feature that provides advanced analytics for file shares, such as usage patterns and security insights. It is not required to add new FSVMs.

- * **Design Best Practices:** In the NUSA course, administrators are taught to always validate the number of cluster nodes first before deploying additional FSVMs. This ensures that the cluster can accommodate the new FSVMs without causing resource contention or violating best practice guidelines for balanced and resilient file server deployments.

- * **Resilience and High Availability:** Because FSVMs are distributed across the physical cluster nodes, having more nodes than FSVMs ensures that if a node fails, the FSVMs can failover to other available nodes. This helps maintain the high availability of file services.

In summary, while other factors like network ports, container space, and analytics capabilities play roles in the broader operation and management of Nutanix Files, the absolute requirement for adding FSVMs is ensuring that there are enough cluster nodes to host them. This ensures compliance with design best practices for scalability and resilience, as emphasized in the official Nutanix training courses.

NEW QUESTION # 34

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