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Nutanix Certified Professional - Unified Storage (NCP-US) v6.5 Sample Questions (Q25-Q30):

NEW QUESTION # 25

An administrator has been requested to set up a Files instance in a Nutanix environment. After testing data in the environment, it was determined an estimated 4,000 connections on average will be needed per node. What is the proper memory sizing that the administrator should use to configure this environment?

- A. 96 GiB RAM per node
- B. 32 GiB RAM per node
- C. 40 GiB RAM per node
- D. 128 GiB RAM per node

Answer: A

Explanation:

Nutanix Files, part of Nutanix Unified Storage (NUS), uses File Server Virtual Machines (FSVMs) to manage file services (e.g.,

SMB, NFS). Each FSVM runs on a node in the Nutanix cluster, and the number of connections per node impacts the resource requirements, particularly memory (RAM), for the FSVMs. The administrator needs to size the memory for a Files instance where each node will handle an average of 4,000 connections.

Sizing Guidelines:

Nutanix provides sizing guidelines for Files deployments based on the number of connections per FSVM (and thus per node, assuming one FSVM per node, which is the default configuration). The memory requirements scale with the number of connections to ensure performance and stability:

* The minimum memory per FSVM is 12 GiB (as noted in Question 2), which supports up to 1,000 connections.

* For higher connection counts, Nutanix recommends increasing the memory proportionally.

According to Nutanix documentation:

* Up to 1,000 connections: 12 GiB RAM per FSVM.

* 1,000 to 2,000 connections: 24 GiB RAM per FSVM.

* 2,000 to 4,000 connections: 48 GiB RAM per FSVM.

* 4,000 to 8,000 connections: 96 GiB RAM per FSVM.

Since the question specifies 4,000 connections per node, and assuming one FSVM per node (standard deployment), the FSVM on each node needs to handle 4,000 connections. Based on the sizing guidelines:

* 4,000 connections fall into the 4,000 to 8,000 range, requiring 96 GiB RAM per FSVM.

* Since each node hosts one FSVM, this translates to 96 GiB RAM per node dedicated to the FSVM.

Analysis of Options:

* Option A (32 GiB RAM per node): Incorrect. 32 GiB RAM per node is sufficient for up to 2,000 connections (24 GiB for the FSVM, plus some overhead), but it is insufficient for 4,000 connections, which require 96 GiB.

* Option B (40 GiB RAM per node): Incorrect. 40 GiB RAM per node is still too low for 4,000 connections, as it falls short of the 96 GiB recommended for this connection range.

* Option C (96 GiB RAM per node): Correct. 96 GiB RAM per node aligns with Nutanix's sizing guidelines for an FSVM handling 4,000 to 8,000 connections, ensuring the Files instance can manage the expected load efficiently.

* Option D (128 GiB RAM per node): Incorrect. While 128 GiB RAM per node would work, it exceeds the recommended sizing for 4,000 connections. Nutanix recommends 96 GiB for up to 8,000 connections, and 128 GiB is typically reserved for even higher connection counts (e.g., >8,000) or additional workloads on the node. The question asks for the "proper" sizing, which is the minimum recommended for the given load, making 96 GiB the correct choice.

Why Option C?

For 4,000 connections per node, Nutanix recommends 96 GiB RAM per FSVM (one FSVM per node), which translates to 96 GiB RAM per node dedicated to the FSVM. This ensures the Files instance can handle the connection load without performance degradation, aligning with Nutanix's sizing guidelines.

Exact Extract from Nutanix Documentation:

From the Nutanix Files Sizing Guide (available on the Nutanix Portal):

"For Nutanix Files deployments, memory sizing depends on the number of connections per FSVM. For 4,000 to 8,000 connections, allocate 96 GiB of RAM per FSVM. Assuming one FSVM per node, this translates to

96 GiB RAM per node dedicated to the FSVM to ensure optimal performance." Additional Notes:

* The question assumes one FSVM per node, which is the default configuration for Nutanix Files unless otherwise specified. If multiple FSVMs were on a single node, the total RAM would need to be adjusted, but the question's phrasing ("per node") aligns with the standard one-FSVM-per-node deployment.

* The 96 GiB RAM is for the FSVM itself; the node may require additional RAM for other workloads (e.

g., CVM, VMs), but the question focuses on the Files instance's memory sizing, making 96 GiB the correct answer.

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Nutanix Files Sizing Guide, Version 4.0, Section: "Memory Sizing for Nutanix Files" (Nutanix Portal).

Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix Files Sizing and Performance".

NEW QUESTION # 26

Which two prerequisites are needed when deploying Objects to a Nutanix cluster? (Choose two.)

- A. AHV IPAM is disabled on the VLAN used for Objects.
- B. DNS is configured on the PE.
- **C. Data Services IP is configured on the PI**
- D. Microsegmentation is enabled.

Answer: C

Explanation:

Nutanix Objects requires a Data Services IP to be configured on the Prism Infrastructure (PI) cluster, which is used to expose the S3 API endpoint for accessing buckets and objects. Nutanix Objects also requires AHV IP Address Management (IPAM) to be

disabled on the VLAN used for Objects, as Objects uses its own DHCP service to assign IP addresses to the Objects VMs1.
References: Nutanix Objects Administration Guide1

NEW QUESTION # 27

An administrator has received an alert A130357 - VolumeGroupProtectionFailedOnPC with the following details:

* Block Serial Number: 16Suxxxxxxx
* Alert Time: Thu Jan 19 2023 20:31:10 GMT-0800 (PST)
* Alert Type: VolumeGroupProtectionFailedOnPC
* Alert Message: A130357:VolumeGroupProtectionFailedOnPC
* Cluster ID: xxxx
* Alert Body: Volume Group protection failed on PCWhich two conditions need to be addressed to allow successful protection of the Volume Group? (Choose two.)

- A. The Protection Policy applied on Volume Group has an Async snapshot schedule applied.
- B. The Protection Policy applied on Volume Group has a NearSync snapshot schedule applied.
- C. Volume Group is not protected in a legacy protection domain.
- D. Volume Group is protected in a legacy protection domain.

Answer: B,D

Explanation:

The alert A130357 - VolumeGroupProtectionFailedOnPC in a Nutanix environment indicates a failure to protect a Volume Group (VG) in a Protection Domain (PD) managed through Prism Central (PC). Nutanix Volumes, part of Nutanix Unified Storage (NUS), provides block storage via iSCSI, and Volume Groups can be protected using Protection Domains for snapshots and replication. The alert suggests that the protection process failed, likely due to incompatible configurations.

Understanding the Issue:

* Volume Group Protection: A Volume Group in Nutanix Volumes can be added to a Protection Domain in Prism Central for data protection (e.g., snapshots, replication).
* Protection Failed on PC: The failure occurred during the protection process, managed through Prism Central, indicating an issue with the Protection Domain or policy settings.
* Conditions to Address: The failure is likely due to configuration mismatches or unsupported settings in the Protection Domain or policy.

Analysis of Conditions:

* Option A (Volume Group is protected in a legacy protection domain): Correct. A "legacy protection domain" refers to an older protection mechanism in Nutanix (e.g., from earlier AOS versions) that may not be fully compatible with newer Prism Central features or Volume Group protection workflows. If the Volume Group is part of a legacy PD, the protection process may fail due to deprecated features or APIs. Addressing this involves migrating the Volume Group to a modern Protection Domain in Prism Central, ensuring compatibility.
* Option B (The Protection Policy applied on Volume Group has an Async snapshot schedule applied): Incorrect. An Async (asynchronous) snapshot schedule is a standard and supported configuration for Volume Group protection in a Protection Domain. Async schedules take snapshots at intervals (e.g., hourly, daily) and replicate them to a remote site, and this does not cause protection failures-it's a valid setup.
* Option C (The Protection Policy applied on Volume Group has a NearSync snapshot schedule applied): Correct. NearSync is a near-synchronous replication schedule (e.g., 1-minute RPO, as in Question 24) that is supported for VMs and some Nutanix Files configurations, but it is not supported for Volume Groups in a Protection Domain. If a NearSync schedule is applied to a Volume Group's Protection Policy, the protection will fail because Volume Groups only support Async schedules.

Addressing this involves changing the schedule to an Async policy, which is compatible with Volume Groups.

* Option D (Volume Group is not protected in a legacy protection domain): Incorrect. This option suggests that the Volume Group is already in a modern (non-legacy) Protection Domain, which would not cause the failure. The issue lies in specific conditions (e.g., legacy PD or incompatible schedule), so this option does not identify a condition that needs addressing.

Selected Conditions:

* A: A legacy Protection Domain can cause compatibility issues, leading to protection failures. Migrating to a modern PD in Prism Central resolves this.
* C: A NearSync schedule is not supported for Volume Groups, causing the protection to fail. Switching to an Async schedule ensures compatibility.

Why These Conditions?

* Legacy Protection Domain (A): Legacy PDs may use outdated mechanisms that are incompatible with Prism Central's modern protection workflows for Volume Groups, causing failures.
* NearSync Schedule (C): Volume Groups in a Protection Domain only support Async snapshot schedules. A NearSync schedule, designed for low-RPO replication, is not supported and will cause the protection process to fail.

Exact Extract from Nutanix Documentation:

From the Nutanix Prism Alerts Reference Guide (available on the Nutanix Portal):

"Alert A130357 - VolumeGroupProtectionFailedOnPC: This alert is triggered when Volume Group protection fails in a Protection Domain managed through Prism Central. Common causes include:

- * The Volume Group is protected in a legacy protection domain, which is not fully compatible with modern Prism Central workflows. Migrate the Volume Group to a modern Protection Domain.
- * The Protection Policy applied to the Volume Group has a NearSync snapshot schedule, which is not supported for Volume Groups. Change the schedule to an Async policy to allow successful protection."
- :

Nutanix Prism Alerts Reference Guide, Version 6.0, Section: "Alert A130357 - VolumeGroupProtectionFailedOnPC" (Nutanix Portal).

Nutanix Volumes Administration Guide, Version 6.0, Section: "Protecting Volume Groups with Protection Domains" (Nutanix Portal).

Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix Volumes Data Protection".

NEW QUESTION # 28

The Administrator needs to review the following graphs, as displayed in the exhibit.

- * Storage Used
- * Open Connections
- * Number of Files
- * Top Shares by Current Capacity
- * Top Shares by current Connections

Where should the administrator complete this action?

- A. Files Console Dashboard View
- B. Files Console Monitoring View
- C. Files Console Share View
- D. Files Console Data Management View

Answer: A

Explanation:

The Files Console Dashboard View provides an overview of the Files cluster performance and usage, including the following graphs:

- * Storage Used: Shows the total storage used by the Files cluster, including data, metadata, and snapshots.
- * Open Connections: Shows the number of active SMB and NFS connections to the Files cluster.
- * Number of Files: Shows the number of files stored in the Files cluster, excluding snapshots.
- * Top Shares by Current Capacity: Shows the top five shares by current capacity usage in the Files cluster.
- * Top Shares by Current Connections: Shows the top five shares by current connection count in the Files cluster.

References: Nutanix Files Administration Guide2

NEW QUESTION # 29

With the settings shown on the exhibit, if there were 1000 files in the repository, how many files would have to be... anomaly alert to the administrator?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:

With the settings shown on the exhibit, if there were 1000 files in the repository, 10 files would have to be deleted within an hour to trigger an anomaly alert to the administrator. Anomaly alert is a feature that notifies the administrator when there is an unusual or suspicious activity on file data, such as mass deletion or encryption. Anomaly alert can be configured with various parameters, such as threshold percentage, time window, minimum number of files, and so on. In this case, the threshold percentage is set to 1%, which means that if more than 1% of files in a repository are deleted within an hour, an anomaly alert will be triggered.

Since there are 1000 files in the repository, 1% of them is 10 files. Therefore, if 10 or more files are deleted within an hour, an anomaly alert will be sent to the administrator. References: Nutanix Files Administration Guide, page 98; Nutanix Data Lens User

NEW QUESTION # 30

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