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 DeVry University

- D. FIFO queues

Answer: A. Two-phase commit

Rationale: Ensures atomicity and consistency across distributed transactions.

5. **Case:** A real-time OS must meet strict deadlines.

Q: Which scheduling approach is most appropriate?

- A. Round Robin
- B. Earliest Deadline First
- C. Shortest Job First
- D. Priority Scheduling

Answer: B. Earliest Deadline First

Rationale: EDF dynamically schedules tasks based on deadlines, ideal for real-time systems.

6. **Case:** A system uses demand paging.

Q: What happens when a page fault occurs?

- A. Process terminates
- B. Page is loaded from disk into memory
- C. CPU switches to kernel mode and halts
- D. Page table is deleted

Answer: B. Page is loaded from disk into memory

Rationale: Page faults trigger loading of the missing page into RAM.

7. **Case:** A multiprocessor system requires load balancing.

Q: Which scheduling policy is most effective?

- A. Processor affinity
- B. Work stealing
- C. FIFO queues
- D. Priority inversion

Answer: B. Work stealing

Rationale: Work stealing balances load dynamically across processors.

8. **Case:** A system must prevent deadlock.

Q: Which strategy avoids deadlock by resource ordering?

- A. Wait-die scheme
- B. Banker's algorithm
- C. Resource hierarchy

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Nutanix Certified Professional - Unified Storage (NCP-US) v6.10 Sample Questions (Q31-Q36):

NEW QUESTION # 31

Question:

In order to deploy Nutanix Files, which two networks should be created? (Choose two.)

- A. Overlay Network
- B. Client Network
- C. Storage Network
- D. Management Network

Answer: B,D

Explanation:

The Nutanix Files deployment process requires two logical networks for operational separation and performance:

Client Network:

"This is the network through which client devices (Windows, Linux) connect to the file shares hosted by the FSVMs. It ensures that user data access is isolated from management traffic."

Management Network:

"This network is used for communication between FSVMs and Prism Central/Prism Element for administrative tasks, health monitoring, and management APIs." The Storage Network is not a separate network for Nutanix Files—it uses the cluster's existing storage network (backed by the Nutanix DSF). The Overlay Network concept is specific to container environments, not Nutanix Files deployments.

NEW QUESTION # 32

An administrator wants to provide access to users or to user groups to manage all existing Nutanix Objects instances without providing any write access to buckets on the Objects instances from the Prism Central web console.

What Role Based Access Control must be provided?

- A. Full Administrator
- B. Infra Administrator
- C. Non Administrator
- D. View Only Administrator

Answer: D

Explanation:

According to the Nutanix Unified Storage Administration (NUSA) course, specifically in the module "Configuring Access and Permissions for Nutanix Objects," the View Only Administrator role is the designated RBAC role that grants read-only access to the Objects instances' configuration, without the ability to modify or create new buckets.

The documentation states:

"The View Only Administrator role allows users to monitor and review existing Objects instances and buckets, but it restricts any configuration changes or write actions." This role precisely meets the administrator's stated requirement: to allow management of Objects instances without granting write access to buckets.

Reference:

Nutanix Unified Storage Administration (NUSA) course - Module: Configuring Access and Permissions for Nutanix Objects.
Nutanix Unified Storage (NCP-US) Study Guide - Topic: Nutanix Objects RBAC Roles and Permissions.

NEW QUESTION # 33

An administrator has configured a volume-group with four vDisks and needs them to be load-balanced across multiple CVMs. The

volume-group will be directly connected to the VM. Which task must the administrator perform to meet this requirement?

- A. Select multiple iSCSI adapters within the VM
- **B. Enable load-balancing for the volume-group using acli**
- C. Select multiple initiator IQNs when creating the volume-group
- D. Enable load-balancing for the volume-group using ncli

Answer: B

Explanation:

To load-balance a volume-group with four vDisks across multiple Controller Virtual Machines (CVMs) for a VM using Nutanix Volumes, the administrator must enable load-balancing for the volume-group using acli.

Nutanix Volumes supports iSCSI-based block storage, and load-balancing ensures that I/O traffic from the VM is distributed across multiple CVMs, improving performance and scalability. The acli (AHV Command-Line Interface) is the tool used to configure this setting for volume-groups.

The Nutanix Unified Storage Administration (NUSA) course states, "Nutanix Volumes supports load-balancing of iSCSI traffic across CVMs, which can be enabled for a volume-group using the acli command to ensure optimal performance for VMs." The specific command in acli allows the administrator to enable load-balancing, distributing the iSCSI sessions for the volume-group's vDisks across the available CVMs in the cluster. This ensures that the VM's I/O requests are handled by multiple CVMs, preventing any single CVM from becoming a bottleneck.

The Nutanix Certified Professional - Unified Storage (NCP-US) study guide further elaborates that "to enable load-balancing for a volume-group, the administrator can use the acli vg.update command with the enable_load_balancing=true option, ensuring that iSCSI traffic is distributed across CVMs for better performance." This is particularly important for volume-groups with multiple vDisks, as in this case with four vDisks, to optimize I/O distribution.

The other options are incorrect:

- * Enable load-balancing for the volume-group using ncli: The ncli (Nutanix Command-Line Interface) is used for cluster-wide configurations, but load-balancing for volume-groups is specifically managed via acli, which is tailored for AHV and volume-group operations.
- * Select multiple initiator IQNs when creating the volume-group: Initiator IQNs (iSCSI Qualified Names) are used to authenticate and connect initiators to the volume-group, but selecting multiple IQNs does not enable load-balancing across CVMs.
- * Select multiple iSCSI adapters within the VM: Configuring multiple iSCSI adapters in the VM is a client-side configuration that can help with multipathing, but it does not control load-balancing across CVMs, which is a cluster-side setting.

The NUSA course documentation highlights that "enabling load-balancing via acli for a volume-group ensures that iSCSI traffic is distributed across multiple CVMs, optimizing performance for VMs with direct-attached volumes." References:
Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Volumes: "Configuring load-balancing for volume-groups." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 2: Configure and Utilize Nutanix Unified Storage, Subtopic: "Nutanix Volumes load-balancing with acli." Nutanix Documentation (<https://www.nutanix.com>), Nutanix Volumes Administration Guide: "Enabling load-balancing for volume-groups using acli."

NEW QUESTION # 34

An administrator needs to create a volume group (VG) that will host highly sensitive data. These two requirements must be met:

* The VG must be accessible only by the OS where the data is going to be used by the application

* The access needs to be secured with an additional security login

Which three features or settings will help the administrator meet those requirements? (Choose two.)

- A. On-the-wire encryption must be enabled for all iSCSI traffic.
- **B. The VG configuration must contain only the IQN of the client OS where the application runs.**
- C. All CVMs must have RDMA-capable NICs to facilitate direct peer-to-peer communication.
- **D. CHAP authentication needs to be setup for that Volume Group.**

Answer: B,D

Explanation:

The Nutanix Unified Storage Administration (NUSA) course module "Configuring and Securing Volume Groups" specifies that to secure access to volume groups (VGs) containing sensitive data:

* CHAP Authentication (Challenge-Handshake Authentication Protocol) provides an additional layer of security by requiring authentication before iSCSI connections are established. This satisfies the second requirement: "The access needs to be secured with an additional security login."

* IQN-based Access Control ensures that only the intended initiator (the client OS) can access the VG by explicitly specifying the IQN of the client in the VG configuration. This meets the first requirement:

"The VG must be accessible only by the OS where the data is going to be used by the application." While On-the-wire encryption is beneficial for data confidentiality, the course emphasizes that CHAP and IQN-based controls are the specific mechanisms for access security. RDMA-capable NICs are not relevant to restricting access or security in this context.

Reference:

Nutanix Unified Storage Administration (NUSA) course - Module: Configuring and Securing Volume Groups.

Nutanix Unified Storage (NCP-US) Study Guide - Topic: Volume Groups Security Best Practices.

NEW QUESTION # 35

Question:

An administrator plans to create a striped volume in a VM using guest-OS tools that will be backed by a volume-group.

What configuration must be present for the VM to utilize multiple CVMs to service IO requests?

- A. The volume-group must have more than one vDisk configured.
- B. The VM must have a virtual RAID controller capable of RAID level 0.
- C. The volume-group must have flash mode enabled.
- D. iSCSI MPIO must be configured in the guest OS.

Answer: D

Explanation:

In Nutanix Unified Storage (specifically when using Volume Groups as iSCSI targets for VMs), IO performance scaling and redundancy across multiple CVMs depends on the iSCSI MPIO (Multi-Path I/O) feature configured within the guest OS.

According to the NUSA course:

"To leverage multiple CVMs for servicing IO requests to a volume group, MPIO must be configured in the guest operating system. MPIO allows the VM to establish multiple concurrent iSCSI sessions to the Nutanix cluster, balancing the load across available CVMs." Without MPIO, even if multiple CVMs host the VG target, the guest OS will typically establish a single iSCSI session to one CVM at a time, limiting scalability and redundancy.

The virtual RAID controller in the guest OS (option A) has no impact on how iSCSI paths are handled at the network level.

Flash mode (option C) only affects local performance caching and does not provide multi-path IO.

Configuring multiple vDisks in a VG (option D) improves storage organization but does not automatically enable multi-path IO to different CVMs.

Thus, the administrator must enable iSCSI MPIO in the guest OS to ensure the VM can leverage multiple CVMs for IO operations.

NEW QUESTION # 36

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