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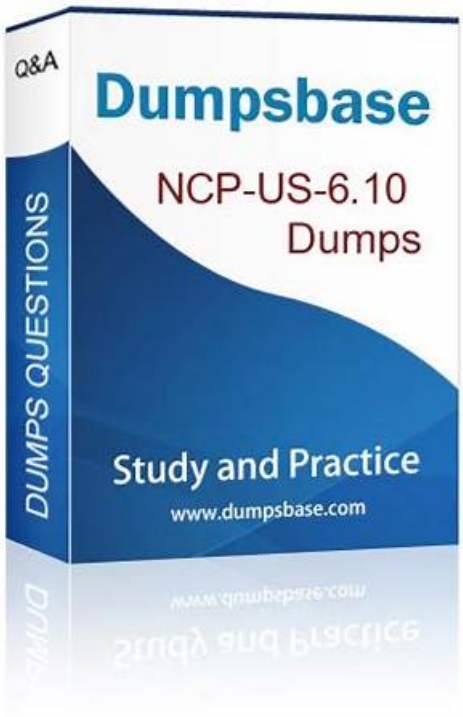

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Nutanix Certified Professional - Unified Storage (NCP-US) v6.10 Sample Questions (Q15-Q20):

NEW QUESTION # 15
Question:
An administrator plans to create astriped volumein a VM using guest-OS tools that will be backed by a volume-group.
What configuration must be present for the VM to utilizemultiple CVMs to service IO requests?

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

Answer: C

Explanation:
In Nutanix Unified Storage (specifically when using Volume Groups as iSCSI targets for VMs),IO performance scalingand redundancy acrossmultiple CVMsdepends on theiSCSI MPIO (Multi-Path I/O) feature configured within theguest 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 asingle iSCSI sessionto 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 mustenable iSCSI MPIO in the guest OSto ensure the VM can leverage multiple CVMs for IO operations.

NEW QUESTION # 16

Refer to the exhibit.

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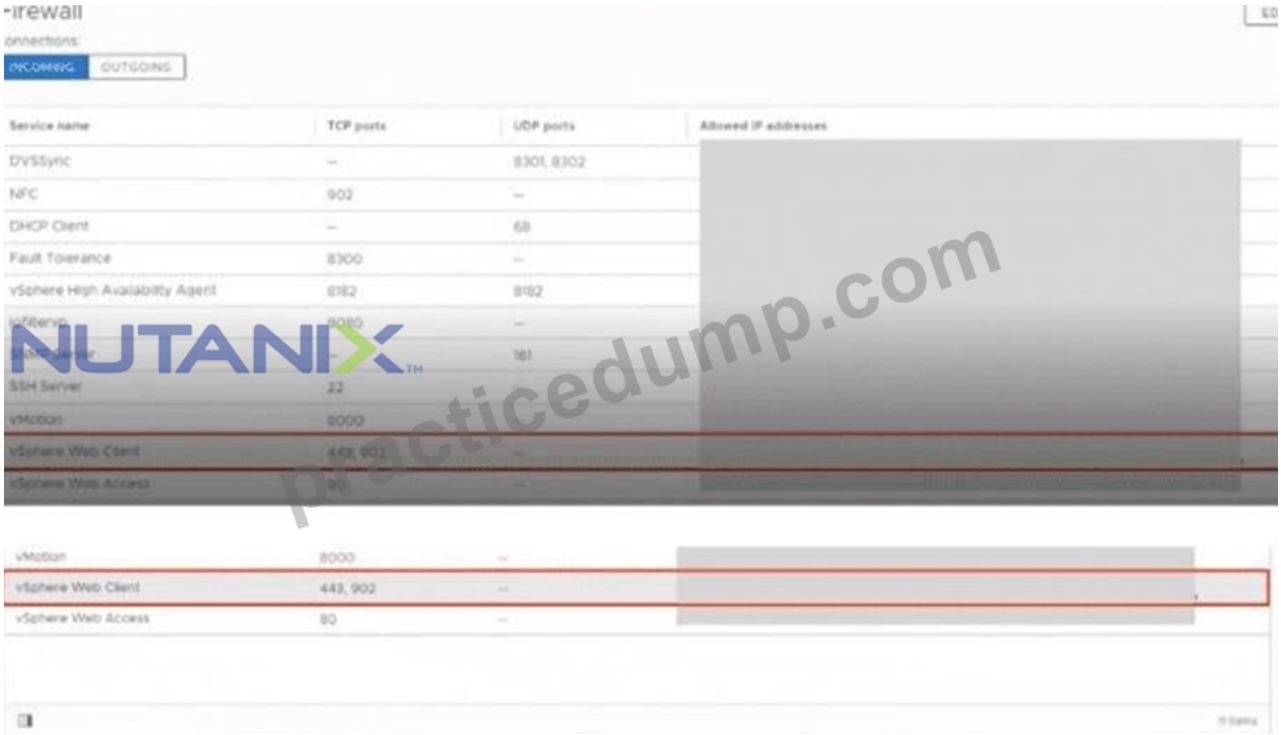

An administrator has noticed a firewall-enabled ESXi-based Nutanix cluster fails with the error: "Upgrade of file server NUTANIX failed due to ESX hosts' connectivity failing. Please check the ESX hosts' network." Based on the exhibit, which network should the administrator add to the vSphere Web Client firewall to allow the connection?

- A. 192.168.5.0/24
- B. 192.168.3.0/24
- C. 192.168.4.0/24
- D. 192.168.2.0/24

Answer: A

Explanation:
The error message indicates that an upgrade of a Nutanix Files instance (referred to as "file server NUTANIX") on an ESXi-based Nutanix cluster failed due to connectivity issues with the ESX hosts. The exhibit likely shows the network configuration details of the cluster, including the IP ranges used for various components such as ESXi hosts, Controller Virtual Machines (CVMs), File Server Virtual Machines (FSVMs), and management interfaces. The task requires identifying the network that needs to be added to the vSphere Web Client firewall to allow connectivity for the Nutanix Files upgrade process.
TheNutanix Unified Storage Administration (NUSA)course explains that "Nutanix Files upgrades require communication between the ESXi hosts, CVMs, and FSVMs, typically over the management network and the storage network where FSVMs reside." In an ESXi-based Nutanix cluster, the FSVMs (which power Nutanix Files) communicate with the ESXi hosts for operations like upgrades, using the network configured for the FSVMs. The error suggests that the ESXi hosts' firewall is blocking this communication, likely because the FSVM network is not allowed in the vSphere firewall rules.
TheNutanix Certified Professional - Unified Storage (NCP-US)study guide further details that "Nutanix Files FSVMs typically use a dedicated network for client and internal communication, often in the 192.168.5.0
/24 range by default in Nutanix environments, unless reconfigured." This network, known as the internal FSVM network, is used for communication between FSVMs, CVMs, and ESXi hosts during operations like upgrades. The default range of 192.168.5.0/24 is commonly assigned to FSVMs in Nutanix AHV and ESXi environments to isolate file server traffic from other network traffic, such as management or VM traffic.
Since the error indicates a connectivity failure between the ESXi hosts and the Nutanix Files instance during the upgrade, the most likely cause is that the ESXi hosts' firewall is blocking traffic from the FSVM network (192.168.5.0/24). The administrator needs to add this network to the vSphere Web Client firewall rules to allow inbound and outbound traffic, ensuring that the ESXi hosts can communicate with the FSVMs during the upgrade process.
The other options are incorrect based on typical Nutanix network configurations:
* 192.168.2.0/24: This range is often used for management traffic (e.g., Prism Element or ESXi management IPs) but is not typically the network for FSVMs.
* 192.168.3.0/24: This range may be used for VM traffic or other purposes, but it is not the default for FSVM communication.
* 192.168.4.0/24: This range is not commonly associated with FSVMs or Nutanix Files in standard configurations.
The NUSA course documentation emphasizes that "during Nutanix Files upgrades, ESXi hosts must have network connectivity to the FSVMs, typically on the 192.168.5.0/24 network, and firewall rules must be updated to allow this traffic to prevent connectivity

failures." The administrator should add the 192.168.5.0/24 network to the vSphere Web Client firewall to allow communication on the necessary ports (e.g., TCP 2049 for NFS, TCP 445 for SMB, and others used for FSVM-CVM communication).
References:
Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Files: "Network requirements for Nutanix Files upgrades in ESXi environments." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 4: Troubleshoot Nutanix Unified Storage, Subtopic: "Diagnosing network connectivity issues for Nutanix Files upgrades." Nutanix Documentation (https://www.nutanix.com), Nutanix Files Administration Guide: "Default network configuration for FSVMs (192.168.5.0/24)."

NEW QUESTION # 17
An administrator has been asked to upgrade an S3-compatible bucket on-premise using Prism Central. Prior to running the LCM upgrade, the administrator validated the following configurations for this task:
* Inbound traffic allowlist:
* Controller Virtual Machine (CVM) IP addresses (including secondary/segmented)
* Prism Central IP address
* Pod network range, usually 10.100.0.0/16
* All IP addresses, such as 0.0.0.0/0 for ports TCP 80 and 443
Outbound traffic allowlist:
* CVM IP addresses (including secondary/segmented)
* Prism Central IP address
* Pod network range, usually 10.100.0.0/16
* All IP addresses such as 0.0.0.0/0 for ports TCP 53, 7100, 5553 and UDP 53, 123 After the validation, the LCM upgrade is launched but did not complete. After reaching the security team, the administrator is informed that security has been enforced on the outbound traffic to the Internet as well. The administrator has been asked to provide a list of components that require Internet access. What should the administrator provide to the security team for a successful upgrade?

- A. CVM IP address/port
- B. Pod network
- C. LCM
- D. Prism Central IP address/port

Answer: A

Explanation:
The scenario involves upgrading an S3-compatible bucket (Nutanix Objects) using Prism Central's Lifecycle Manager (LCM). The LCM upgrade process failed because outbound traffic to the Internet was restricted, and the administrator needs to identify which components require Internet access for a successful upgrade. The correct answer is that theCVM IP address/portmust be provided to the security team, as the Controller Virtual Machines (CVMs) are responsible for downloading upgrade artifacts from Nutanix's external repositories during an LCM upgrade.
TheNutanix Unified Storage Administration (NUSA)course explains that "LCM upgrades require the CVMs to access external Nutanix repositories to download software and firmware updates, typically over HTTPS (port 443)." The CVMs initiate the download of upgrade packages for components like Nutanix Objects, which includes the S3-compatible bucket infrastructure. The course further notes that "outbound traffic from CVM IP addresses to the Internet must be allowed on ports such as TCP 80 (HTTP) and TCP 443 (HTTPS) for LCM to successfully retrieve upgrade files." TheNutanix Certified Professional - Unified Storage (NCP-US)study guide elaborates that "during an LCM upgrade, CVMs communicate with external Nutanix servers (e.g., download.nutanix.com) to fetch upgrade bundles, requiring outbound Internet access from the CVM IP addresses on TCP ports 80 and 443." Additionally, DNS resolution (TCP/UDP port 53) is needed to resolve the external repository URLs, and NTP (UDP port 123) ensures time synchronization, both of which are already allowed in the outbound traffic configuration provided. However, the failure suggests that the specific outbound traffic from CVMs to the Internet on port 443 (or 80) was blocked, preventing the download of the Nutanix Objects upgrade package.
The other options are incorrect:
* Pod network: The pod network (e.g., 10.100.0.0/16) is typically an internal network range for containerized workloads and does not require Internet access for LCM upgrades.
* Prism Central IP address/port: While Prism Central orchestrates the LCM upgrade, it is the CVMs that perform the actual download of upgrade artifacts from the Internet. Prism Central communicates with CVMs internally and does not directly access the Internet for this task.
* LCM: LCM is a software component, not a network entity with an IP address or port. It runs on Prism Central and relies on CVMs to fetch the necessary files.
To resolve the issue, the administrator should provide the security team with the CVM IP addresses and ensure that outbound traffic to the Internet is allowed on TCP port 443 (HTTPS) and optionally TCP port 80 (HTTP) for accessing Nutanix's external repositories (e.g., download.nutanix.com). The NUSA course documentation emphasizes that "ensuring CVMs have Internet access

on the required ports is critical for LCM upgrades to complete successfully, especially for components like Nutanix Objects."
References:
Nutanix Unified Storage Administration (NUSA) Course, Section on Lifecycle Management: "Network requirements for LCM upgrades." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 1: Deploy and Upgrade Nutanix Unified Storage, Subtopic: "LCM upgrade process and network dependencies." Nutanix Documentation (https://www.nutanix.com), LCM Administration Guide: "Outbound network access for CVMs during upgrades."

NEW QUESTION # 18
Question:
An administrator needs to stop an FSVM.
What should the administrator check before stopping a specific FSVM?

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

Answer: A

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 tostopping 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 tocheck HA stateto ensure a seamless failover and minimal service impact before stopping the FSVM.

NEW QUESTION # 19
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 Sync
- D. Smart DR

Answer: D

Explanation:
To meet the requirements of a15-minute RPO (Recovery Point Objective) or less, aguided DR (Disaster Recovery) process, andminimal operations at failover timefor Nutanix Files across two Nutanix clusters (on-prem and in the public cloud via NC2), the company should considerSmart 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.
TheNutanix 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.
TheNutanix 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 # 20
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