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Nutanix Certified Professional - Unified Storage (NCP-US) v6.10 Sample Questions (Q93-Q98):

NEW QUESTION # 93

Question:

What should be enabled for Windows clients when using the SMB protocol in a Nutanix Files deployment?

- A. Internet Information Services
- **B. Distributed File System**
- C. Zettabyte File System
- D. Automatic Windows Update

Answer: B

Explanation:

SMB (Server Message Block) protocol is the foundation for file sharing in Windows environments. In a Nutanix Files deployment, enabling Distributed File System (DFS) on Windows clients enhances SMB functionality by:

Allowing namespace-based access to shares.

Providing client failover and load balancing when used with Nutanix Files SMB shares.

According to the NUSA course:

"For Windows clients accessing Nutanix Files via SMB, enabling Distributed File System (DFS) ensures they can dynamically discover and connect to the most optimal FSVM, even during failovers. DFS enhances resiliency and performance by maintaining a consistent namespace." The other options:

Zettabyte File System- not relevant for Windows or SMB.

Internet Information Services- web server technology, not related to SMB shares.

Automatic Windows Update- not directly tied to SMB access.

Thus, enabling Distributed File System (DFS) on Windows clients ensures smooth SMB integration and high availability.

NEW QUESTION # 94

Upon further investigation, the administrator notices the below message in the logs:

2024/07/25

10:55:23.937962 utils.go:32: [INFO] Start wget for file fraser-6.10- stable_build_release.json. Source: http://x.

x.x.x/release/builds/msp-builds/msp- services/464585393164.dkr.ecr,

us-west-2.amazonaws.com/nutanix-msp/idf-container/fraser-6.10- stable_build_release.json, Destination directory:

/home/msp_config/airgap/

2024/07/25 10:55:23.945387 utils.go:32: [INFO] Start wget for file fraser-6.10- stable_build_release.tar.

xz. Source: http://x.x.x.x/release/builds/msp-builds/msp- services/464585393164.dkr.ecr.us-west-2.

amazonaws.com/nutanix-msp/idf-container/fraser-6.10- stable_build_release.tar.xz, Destination directory: /home/msp_config/airgap/

2024/07/25 10:55:23.949580 utils.go:58: [ERROR] Failed to wget fraser-6.10- stable_build_release.tar.

xz from http://x.x.x.x/release/builds/msp-builds/msp-

services/464585393164.dkr.ecr.us-west-2.amazonaws.com/nutanix-msp/idf-container/fraser-6.10- stable_build_release.tar.xz,

output: --2024-07-25 10:55:23-- http://x.x.x.x/release/builds

/men-builds/men-services/464585393164.dkr.ecr.us-west-2.amazonaws.com/nutanix-men/idf- stable_build_release.tar.xz

Source: http://x.x.x.x/release/builds/msp-builds/msp- services/464585393164.dkr.ecr.us-west-2.amazonaws.com/nutanix-msp/idf-

container/fraser-6.10- stable_build_release.tar.xz, Destination directory: /home/msp_config/airgap/

2024/07/25

10:55:23.949580 utils.go: 58: [ERROR] Failed to wget fraser-6.10- stable_build_release.tar.xz from http://x.x.

x.x.x/release/builds/msp-builds/msp-

services/464585393164.dkr.ecr.us-west-2.amazonaws.com/nutanix-msp/idf-container/fraser-6.10- stable_build_release.tar.xz

output: --2024-07-25 10:55:23-- http://x.x.x.x/release/builds
/msp-builds/msp-services/464585393164.dkr.ecr.us-west-2.amazonaws.com/nutanix-msp/idf-container/fraser-6.10-stable_build_release.tar.xz Connecting to x.x.x.x:80... failed.
HTTP request sent, awaiting response... 404 Not Found
2024-07-25 10:55:23 ERROR 404 Not Found
What is the cause of this issue?
/msp-pias/msp-services/4104.akc.ecr.us-west-2.amazonaws.com/nutanix-msp/lar-container/fraser-6.10-stable_build_release.tar.xz
Connecting to x.x.x.x:80... failed.
HTTP request sent, awaiting response... 404 Not Found
2024-07-25 10:55:23 ERROR 404: Not Found
What is the cause of this issue?

- A. Prism Central needs to reach the web server over port 80.
- **B. MSP needs to reach the web server over port 80.**
- C. Prism Central needs to reach the web server over port 443.
- D. MSP needs to reach the web server over port 443.

Answer: B

Explanation:

The log message indicates a failure to download the file `fraser-6.10-stable_build_release.tar.xz` from a web server, resulting in an HTTP 404 Not Found error when attempting to connect to the server over port 80. The error suggests that the Microservices Platform (MSP) is attempting to access a resource via HTTP (port 80), but the connection fails, either because the server is not reachable, the resource is not available, or the port is blocked.

The Nutanix Unified Storage Administration (NUSA) course discusses the Microservices Platform (MSP) as a component that supports containerized services in Nutanix environments, often requiring access to external repositories for downloading build artifacts, such as those hosted on AWS ECR (Elastic Container Registry).

The course notes that "MSP services may require outbound network access to download container images or configuration files, typically over HTTP (port 80) or HTTPS (port 443), depending on the repository configuration." In this case, the log explicitly shows the attempt to use HTTP (port 80) to access the URL `http://x.x.x.x/...`, indicating that MSP is configured to use HTTP for this operation. The HTTP 404 Not Found error suggests that either the file does not exist at the specified URL, the server is not responding, or network connectivity issues (e.g., firewall rules blocking port 80) are preventing MSP from reaching the web server. Since the error occurs during the connection attempt over port 80, the most likely cause is that MSP needs to reach the web server over port 80, and this connectivity is not properly configured or is blocked.

The Nutanix Certified Professional - Unified Storage (NCP-US) study guide emphasizes troubleshooting network connectivity for Nutanix services, stating, "Administrators must ensure that required ports, such as

80 for HTTP or 443 for HTTPS, are open for services like MSP to access external resources." The guide also recommends checking firewall rules, proxy settings, and network routes when encountering connectivity errors like HTTP 404.

The provided search results further support this analysis. For example, troubleshooting connectivity issues in Nutanix environments often involves verifying port access, as seen in discussions about Pulse and other services requiring HTTP (port 80) or HTTPS (port 443) connectivity to external servers (e.g., `nsc01.nutanix`.

`net` or `insights.nutanix.com`). While the specific issue in the log is related to MSP, the principle of ensuring proper port access applies.

The other options are incorrect:

* Prism Central needs to reach the web server over port 443: The log indicates that MSP, not Prism Central, is attempting the connection, and it uses HTTP (port 80), not HTTPS (port 443).

* MSP needs to reach the web server over port 443: The log clearly shows the connection attempt over HTTP (port 80), not HTTPS (port 443).

* Prism Central needs to reach the web server over port 80: The log references MSP, not Prism Central, as the component attempting the download.

To resolve this issue, the administrator should:

* Verify that the web server at `x.x.x.x` is reachable and the file exists at the specified URL.

* Ensure that outbound traffic from the MSP service to the web server over port 80 is allowed by checking firewall rules, proxy settings, and network configurations.

* If the server requires HTTPS, update the MSP configuration to use port 443 instead of port 80, but the log suggests port 80 is expected.

References:

Nutanix Unified Storage Administration (NUSA) Course, Section on Troubleshooting: "Network connectivity for MSP and external repository access." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 4: Troubleshoot Nutanix Unified Storage, Subtopic: "Diagnosing network connectivity issues for Nutanix services." Nutanix Documentation, MSP Administration Guide: "Configuring network access for MSP container downloads." Nutanix Community, Pulse Configuration and

Connection Troubleshooting: "Ensuring port 80 and 443 access for external services."

NEW QUESTION # 95

After configuring Smart DR, an administrator observes that a policy in the Policies tab is not visible within Prism Central (PC). What is the likely cause of this issue?

- A. The initial replication has not completed.
- B. The share permissions include more than one local user.
- C. Port 7515 is not opened between the source and recovery networks.
- D. The administrator is logged into PC with a local account rather than an AD account.

Answer: C

Explanation:

Smart DR requires port 7515 (TCP) for communication between source/target clusters and Prism Central. If blocked:

- * Policies fail to synchronize with PC.
- * Policies become "invisible" in the UI.

Other options are unrelated:

- * A: Share permissions don't affect policy visibility.
- * B: Initial replication progress appears in UI even if incomplete.
- * C: AD/local login affects permissions, not policy discovery.

Reference:Nutanix Smart DR Administration Guide:

"Ensure port 7515 is open between Prism Central, source cluster, and target cluster. Blocking this port prevents policy metadata from appearing in PC."(Chapter: "Troubleshooting Smart DR") Nutanix Unified Storage (NCP-US) Study Material:

"Connectivity issues on port 7515 are the primary cause of missing Smart DR policies in Prism Central." (Section: "Smart DR Deployment Requirements")

NEW QUESTION # 96

What is the maximum number of object stores that can be deployed per AOS cluster?

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

Answer: C

Explanation:

A single AOS cluster supports a maximum of 4 Nutanix Object Stores. Each object store is an independent instance with dedicated resources.

Reference:Nutanix Objects Planning Guide:

"A cluster supports up to four Object Stores, each capable of hosting multiple buckets and scaling independently."(Chapter:

"Deployment Limits")Nutanix NUSA Course:"The hard limit of 4 Object Stores per cluster ensures resource isolation and performance stability."(Module: "Objects Sizing and Scaling") According to the Nutanix Unified Storage documentation and the Nutanix Unified Storage Administration (NUSA) course materials, each AOS (Acropolis Operating System) cluster can support a maximum of 4 object stores. This maximum number ensures stability, scalability, and performance consistency within the cluster environment.

The object store in Nutanix Unified Storage is implemented using Nutanix Objects, which leverages a distributed, scale-out architecture. When deploying object stores within an AOS cluster, the system assigns storage resources and metadata handling roles across the cluster nodes to maintain high availability and data protection.

The limitation of 4 object stores per cluster is defined to optimize resource utilization and prevent excessive load on cluster services that manage object metadata and data replication. Each object store is backed by Nutanix's robust storage fabric, which ensures performance and reliability while maintaining strict isolation between different object stores.

In the Nutanix Unified Storage Administration course, the topic of deploying object stores covers:

Deployment Limits:Each AOS cluster is capable of hosting up to 4 object stores, which allows for flexibility while maintaining performance boundaries.

Design Considerations:The 4-object store limit is recommended to avoid resource contention, as object stores have significant metadata and data handling overhead that can impact cluster stability if limits are exceeded.

Scalability:While 4 object stores can be deployed per cluster, Nutanix's architecture allows for horizontal scaling by deploying

additional object stores across multiple clusters as needed for different use cases or tenant isolation.

Management of Object Stores: Unified Storage leverages Prism Central and Prism Element to configure and monitor object stores, ensuring easy management of deployed object services within the cluster's limit.

This information is consistently emphasized in the official NCP-US study guide and the NUSA course presentations to ensure administrators and architects understand these design and deployment limitations.

NEW QUESTION # 97

An administrator is managing a Nutanix Files instance at a dark site. The administrator has been tasked to configure a solution to alert the security team when more than 500 files are renamed hourly. Which configuration should be applied?

- A. Set up Data Management Protection in Files Manager
- B. Add MMC Snap-In for Nutanix Files
- **C. Define an anomaly rule in File Analytics**
- D. Configure Nutanix Data Lens ransomware protection

Answer: C

Explanation:

To alert the security team when more than 500 files are renamed hourly on a Nutanix Files instance at a dark site, the administrator should define an anomaly rule in File Analytics. Nutanix File Analytics is a monitoring and analytics tool for Nutanix Files that provides visibility into file share activities, including file operations like renames. Anomaly rules allow administrators to detect unusual activities and configure alerts, such as email notifications, for specific thresholds.

The Nutanix Unified Storage Administration (NUSA) course states, "File Analytics enables administrators to define anomaly rules to monitor file activities, such as file renames, and set thresholds for alerts, making it ideal for detecting unusual behavior like mass file renaming." The administrator can create an anomaly rule to track file rename operations and set a threshold of more than 500 renames per hour, triggering an email alert to the security team when this condition is met. This functionality works in a dark site environment, as File Analytics operates locally within the Nutanix cluster and does not require Internet access.

The Nutanix Certified Professional - Unified Storage (NCP-US) study guide further elaborates that

"anomaly rules in File Analytics can be configured to monitor specific file operations, such as renames, with customizable thresholds and notification settings, ensuring timely alerts for potential security issues." This makes File Analytics the best tool for the task, as it provides granular control over monitoring and alerting for file activities.

The other options are incorrect:

* Set up Data Management Protection in Files Manager: Data Management Protection is not a feature of Nutanix Files; it may refer to backup or replication features, which do not address file rename monitoring.

* Configure Nutanix Data Lens ransomware protection: Nutanix Data Lens focuses on data lifecycle management and tiering, not real-time monitoring of file operations like renames. While it has some ransomware detection capabilities, it is not designed for specific thresholds like 500 file renames per hour and requires Internet access, which is unavailable in a dark site.

* Add MMC Snap-In for Nutanix Files: The MMC (Microsoft Management Console) Snap-In is used for managing Nutanix Files from a Windows system but does not provide monitoring or alerting capabilities for file rename operations.

The NUSA course documentation highlights that "File Analytics anomaly rules are the recommended solution for monitoring file operations like mass renames, providing customizable thresholds and alerts even in dark site environments." References:

Nutanix Unified Storage Administration (NUSA) Course, Section on File Analytics: "Configuring anomaly rules for file operation monitoring." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 3: Analyze and Monitor Nutanix

Unified Storage, Subtopic: "File Analytics anomaly rules for security monitoring." Nutanix Documentation (<https://www.nutanix.com>), Nutanix File Analytics Guide: "Setting up anomaly rules for file rename alerts."

NEW QUESTION # 98

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