

Excellent NCP-US-6.5 Exam Course & The Best Exam Overviews to Help you Pass NCP-US-6.5: Nutanix Certified Professional - Unified Storage (NCP-US) v6.5

Nutanix NCA-6.5 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Explain VM operationsDescribe Nutanix SolutionsDescribe Storage Concepts
Topic 2	<ul style="list-style-type: none">Describe how to access Prism Central and Prism ElementDescribe Nutanix Fundamental Concepts
Topic 3	<ul style="list-style-type: none">Identify differences between Prism Central and Prism ElementDescribe Life Cycle Management
Topic 4	<ul style="list-style-type: none">Identify and monitor LCM software and firmwareDescribe Life Cycle Management (LCM)
Topic 5	<ul style="list-style-type: none">Differentiate between VM, node, and cluster performance metricsInterpret alerts and events

Nutanix Certified Associate (NCA) v6.5 exam Sample Questions (Q82-Q87):

NEW QUESTION # 82

Nutanix Support Asked an administrator to provide AHV logs to help solve a support request. Which task should be performed to provide log files to the support team?

- A. Enable Pulse to include additional support information
- B. collect logs from the health Page
- C. Run NCC Check from the command line
- D. Upload log files from /home/nutanix/data/logs folder

Answer: C

NEW QUESTION # 83

An administrator needs to deploy a two-node cluster on a new ROBO Site. What is required to maintain High Availability in the case of a node failure?

- A. Metro-Availability
- B. Async Replication
- C. Windows Failover Clustering
- D. Witness VM

Answer: D

Explanation:

To maintain high availability in the case of a node failure in a two-node cluster, a Witness VM is required. Therefore, the correct answer is A. The Witness VM acts as a tie-breaker and arbitrator in the event of a split-brain scenario, where both nodes lose connectivity to each other, to ensure that only one node continues to operate and serve workloads. It is also recommended to use a high-performance network to minimize network latency between the two nodes and the Witness VM.

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Nutanix NCP-US-6.5 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Configure Nutanix Files with advanced featuresDetermine the appropriate method to ensure data availabilityrecoverability
Topic 2	<ul style="list-style-type: none">Configure Nutanix ObjectsDescribe how to monitor performance and usage
Topic 3	<ul style="list-style-type: none">Identify the steps to deploy Nutanix FilesGiven a scenario, determine product and sizing parameters
Topic 4	<ul style="list-style-type: none">Given a scenario, configure shares, buckets, andor Volume GroupsTroubleshoot a failed upgrade for FilesObjects
Topic 5	<ul style="list-style-type: none">Analyze and Monitor Nutanix Unified StorageDescribe the use of Data Lens for data security
Topic 6	<ul style="list-style-type: none">Utilize File Analytics for data securityTroubleshoot Nutanix Unified StorageConfigure Nutanix Volumes
Topic 7	<ul style="list-style-type: none">Configure and Utilize Nutanix Unified StorageIdentify the steps to deploy Nutanix Objects

Nutanix Certified Professional - Unified Storage (NCP-US) v6.5 Sample Questions (Q18-Q23):

NEW QUESTION # 18

How can an administrator deploy a new instance of Files?

- A. From LCM in Prism Central.
- B. From LCM in Prism Element.
- C. From the Files Console view in Prism Central.**
- D. From the Storage view in Prism Element.

Answer: C

Explanation:

The Files Console view in Prism Central is the primary interface for deploying and managing Files clusters.

Administrators can use the Files Console to create a new instance of Files by providing the required information, such as cluster name, network configuration, storage capacity, and license key. References:

Nutanix Files Administration Guide

Deploying a new instance of Nutanix Files is done through the Files Console view in Prism Central, where the administrator can create a new File Server, specify the number of FSVMs, configure networks (Client and Storage), and allocate storage. This is the standard and supported method for Files deployment, providing a centralized interface for managing Files instances.

Exact Extract from Nutanix Documentation:

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

"To deploy a new instance of Nutanix Files, use the Files Console view in Prism Central. Navigate to the Files Console, select the option to create a new File Server, and configure the settings, including the number of FSVMs, network configuration, and storage allocation."

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Nutanix Files Deployment Guide, Version 4.0, Section: "Deploying a New Files Instance" (Nutanix Portal).

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

NEW QUESTION # 19

What is the binary image extension of File Analytics?

- A. ISO
- B. QCOW2
- C. VMDK
- D. JSON

Answer: B

Explanation:

File Analytics is deployed as a VM, and Nutanix provides its binary image in QCOW2 format for AHV, which is the primary hypervisor for Nutanix clusters. QCOW2 is the standard disk image format for AHV, making it the correct choice for the File Analytics deployment image.

Exact Extract from Nutanix Documentation:

From the Nutanix File Analytics Deployment Guide (available on the Nutanix Portal):

"The File Analytics VM is provided as a binary image in QCOW2 format for deployment on AHV clusters.

To deploy File Analytics, download the QCOW2 image from the Nutanix Portal and import it into the cluster using Prism Central or Prism Element."

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Nutanix File Analytics Deployment Guide, Version 4.0, Section: "Deploying File Analytics" (Nutanix Portal).

Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix File Analytics Deployment".

NEW QUESTION # 20

A company is currently using Objects 3.2 with a single Object Store and a single S3 bucket that was created as a repository for their data protection (backup) application. In the near future, additional S3 buckets will be created as this was requested by their DevOps team. After facing several issues when writing backup images to the S3 bucket, the vendor of the data protection solution found the issue to be a compatibility issue with the S3 protocol. The proposed solution is to use an NFS repository instead of the S3 bucket as backup is a critical service, and this issue was unknown to the backup software vendor with no foreseeable date to solve this compatibility issue. What is the fastest solution that requires the least consumption of compute capacity (CPU and memory) of their Nutanix infrastructure?

- A. Redeploy Objects using the latest version, create a new bucket, and enable NFS v3 access.
- B. Deploy Files and create a new Share with multi-protocol access enabled.
- C. Delete the existing bucket, create a new bucket, and enable NFS v3 access.
- D. Upgrade Objects to the latest version, create a new bucket, and enable NFS v3 access.

Answer: B

Explanation:

The company is using Nutanix Objects 3.2, a component of Nutanix Unified Storage (NUS), which provides S3-compatible object storage. Due to an S3 protocol compatibility issue with their backup application, they need to switch to an NFS repository. The solution must be the fastest and consume the least compute capacity (CPU and memory) on their Nutanix infrastructure.

Analysis of Options:

* Option A (Delete the existing bucket, create a new bucket, and enable NFS v3 access): Incorrect.

Nutanix Objects does support NFS access for buckets starting with version 3.5 (as per Nutanix documentation), but Objects 3.2 does not have this capability. Since the company is using Objects 3.2, this option is not feasible without upgrading or redeploying Objects, which is not mentioned in this option. Even if NFS were supported, deleting and recreating buckets does not address the compatibility issue directly and may still consume compute resources for bucket operations.

* Option B (Deploy Files and create a new Share with multi-protocol access enabled): Correct.

Nutanix Files, another component of NUS, supports NFS natively and can be deployed to create an NFS share quickly. Multi-

protocol access (e.g., NFS and SMB) can be enabled on a Files share, allowing the backup application to use NFS as a repository. Deploying a Files instance with a minimal configuration (e.g., 3 FSVMs) consumes relatively low compute resources compared to redeploying or upgrading Objects, and it is the fastest way to provide an NFS repository without modifying the existing Objects deployment.

* Option C (Redeploy Objects using the latest version, create a new bucket, and enable NFS v3 access): Incorrect. Redeploying Objects with the latest version (e.g., 4.0 or later) would allow NFS v3 access, as this feature was introduced in Objects 3.5. However, redeployment is a time-consuming process that involves uninstalling the existing Object Store, redeploying a new instance, and reconfiguring buckets. This also consumes significant compute resources during the redeployment process, making it neither the fastest nor the least resource-intensive solution.

* Option D (Upgrade Objects to the latest version, create a new bucket, and enable NFS v3 access): Incorrect. Upgrading Objects from 3.2 to a version that supports NFS (e.g., 3.5 or later) is a viable solution, as it would allow enabling NFS v3 access on a new bucket. However, upgrading Objects involves downtime, validation, and potential resource overhead during the upgrade process, which does not align with the requirement for the fastest solution with minimal compute capacity usage.

Why Option B is the Fastest and Least Resource-Intensive:

* Nutanix Files Deployment: Deploying a new Nutanix Files instance is a straightforward process that can be completed in minutes via Prism Central or the Files Console. A minimal Files deployment (e.g., 3 FSVMs) requires 4 vCPUs and 12 GiB of RAM per FSVM (as noted in Question 2), totaling 12 vCPUs and 36 GiB of RAM. This is a relatively low resource footprint compared to redeploying or upgrading an Objects instance, which may require more compute resources during the process.

* NFS Support: Nutanix Files natively supports NFS, and enabling multi-protocol access (NFS and SMB) on a share is a simple configuration step that does not require modifying the existing Objects deployment.

* Speed: Deploying Files and creating a share can be done without downtime to the existing Objects setup, making it faster than upgrading or redeploying Objects.

Exact Extract from Nutanix Documentation:

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

"Nutanix Files supports multi-protocol access, allowing shares to be accessed via both NFS and SMB protocols. To enable NFS access, deploy a Files instance and create a share with multi-protocol access enabled. A minimal Files deployment requires 3 FSVMs, each with 4 vCPUs and 12 GiB of RAM, ensuring efficient resource usage." From the Nutanix Objects Administration Guide (available on the Nutanix Portal):

"Starting with Objects 3.5, NFS v3 access is supported for buckets, allowing them to be mounted as NFS file systems. This feature is not available in earlier versions, such as Objects 3.2."

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Nutanix Files Deployment Guide, Version 4.0, Section: "Deploying Nutanix Files and Configuring Shares" (Nutanix Portal).

Nutanix Objects Administration Guide, Version 4.0, Section: "NFS Access for Buckets" (Nutanix Portal).

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

NEW QUESTION # 21

An administrator has discovered that File server services are down on a cluster.

Which service should the administrator investigate for this issue?

- A. Cassandra
- B. Insights_collector
- C. **Minerva-nvm**
- D. Sys_stats_server

Answer: C

Explanation:

The service that the administrator should investigate for this issue is Minerva-nvm. Minerva-nvm is a service that runs on each CVM and provides communication between Prism Central and Files services. Minerva-nvm also monitors the health of Files services and reports any failures or alerts to Prism Central. If Minerva-nvm is down on any CVM, it can affect the availability and functionality of Files services on that cluster. References: Nutanix Files Administration Guide, page 23; Nutanix Files Troubleshooting Guide The minerva_nvm service is the core service on FSVMs that manages Nutanix Files operations. If File server services are down, this service is the most likely culprit, as it handles all file system activities (e.g., share access, data I/O). Investigating minerva_nvm (e.g., checking its status, logs, or restarting it) is the first step to diagnose and resolve the issue.

Exact Extract from Nutanix Documentation:

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

"The minerva_nvm service is a critical component of Nutanix Files, running on each FSVM. It manages file system operations, including share access and data management. If File server services are down on a cluster, investigate the minerva_nvm service on

the FSVMs, as its failure will cause shares to become inaccessible."

:

Nutanix Files Administration Guide, Version 4.0, Section: "Troubleshooting Files Services" (Nutanix Portal).

Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Section: "Nutanix Files Service Troubleshooting".

NEW QUESTION # 22

Which metric is utilized when sizing a Files deployment based on performance requirements?

- A. Quantity of NFS exports
- B. Quantity of SMB shares
- **C. SMB concurrent connections**
- D. NFS concurrent connections

Answer: C

Explanation:

This metric indicates the number of active clients that are accessing the Files cluster via SMB protocol, which affects the performance of the Files cluster. NFS concurrent connections is also a relevant metric, but it is not the best answer, as it only applies to NFS protocol, not SMB. The quantity of SMB shares or NFS exports does not directly affect the performance of the Files cluster, as they are logical entities that do not consume resources. References: Nutanix Files Sizing Guide

NEW QUESTION # 23

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