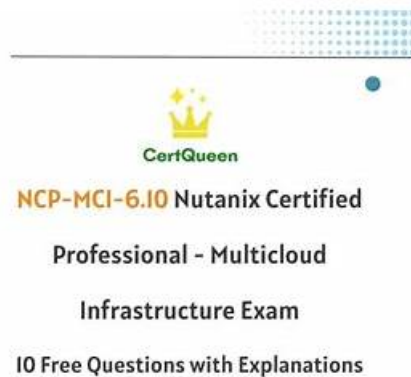


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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

| Topic | Details |
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| Topic 1 | <ul style="list-style-type: none"> • Configure Disaster Recovery and Data Protection within a Nutanix Multicloud Environment: This section of the exam measures the skills of Disaster Recovery Specialists and Cloud Engineers and covers configuring protection policies and domains for data security and recovery. Candidates need to identify the right entities for protection, schedule backups, define retention policies, and set up replication to remote sites. Recovery plans must be configured and executed with proper scripting, network mapping, and failover strategies. Metro replication requires understanding failover methodologies, comparing solutions on different hypervisors, and preventing split-brain scenarios. Effective disaster recovery planning ensures minimal downtime and data integrity across environments. |
| Topic 2 | <ul style="list-style-type: none"> • Manage VMs within a Nutanix Multicloud Environment: This section of the exam measures the skills of Cloud Administrators and Virtualization Engineers and covers managing virtual machines (VMs) within a Nutanix multicloud environment. It includes creating and updating VMs by determining hardware requirements, boot modes, sizing, and configuration based on application needs. Candidates must understand how to deploy VMs using templates, snapshots, and image configurations, ensuring the correct formats for importing and exporting VMs. Migration processes require knowledge of prerequisites, storage, network settings, and software compatibility. Additionally, configuring VM categories and attributes is essential for proper organization and management within the environment, ensuring alignment with labels, storage policies, and security settings. |
| Topic 3 | <ul style="list-style-type: none"> • Troubleshoot a Nutanix Multicloud Environment: This section of the exam measures the skills of Technical Support Engineers and IT Operations Specialists and covers diagnosing and resolving common issues within a Nutanix multi-cloud environment. Troubleshooting protection policies and recovery plans requires identifying network mapping failures, vNIC issues, script execution problems, and connectivity failures. Metro replication troubleshooting involves addressing naming conventions, network limitations, and replication states. Security issues in AOS and Prism Central must be resolved by managing CVM communications, security warnings, and log analysis. LCM operations require diagnosing failures in inventory updates and version upgrades. Performance troubleshooting involves analyzing logs, reading performance charts, and adjusting VM configurations to meet performance needs. |
| Topic 4 | <ul style="list-style-type: none"> • Manage Clusters within a Nutanix Multicloud Environment: This section of the exam measures the skills of Infrastructure Engineers and Systems Administrators and covers the administration of Nutanix clusters. Storage management includes creating, reading, updating, and deleting storage containers and volume groups. Configuring AOS and Prism Central settings involves authentication, SSL certificate management, IAM role-based access control, and configuring network segmentation. Network administration procedures focus on creating VLAN-backed subnets, virtual switches, and load-balancing policies while monitoring NIC usage. Lifecycle management includes performing hardware and software updates and maintaining firmware. Hardware maintenance involves adding or removing nodes and physical disks while ensuring proper upgrades and replacements. Intelligent operations require configuring capacity policies, discovering application relationships, and simulating scenarios to optimize performance. |
| Topic 5 | <ul style="list-style-type: none"> • Conduct Custom Monitoring within a Nutanix Multicloud Environment: This section of the exam measures the skills of Cloud Analysts and Systems Engineers and covers custom monitoring for optimized performance management. Candidates must analyze performance charts, set retention policies, create custom service level agreements (SLAs), and manage storage based on policies. Creating reports involves identifying the required type, selecting generation frequency, determining retention properties, and customizing report formats for different monitoring needs. Effective monitoring ensures better resource utilization, system efficiency, and proactive issue resolution within the multi-cloud environment. |

Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q133-Q138):

NEW QUESTION # 133

An administrator needs to create a storage container for VM disks. The container must meet the following conditions:

- * 10 GiB of the total allocated space must not be used by other containers.
- * The container must have a maximum storage capacity of 500 GiB.

What settings should the administrator configure while creating the storage container?

- A. Set Advertised Capacity to 10 GiB and Reserved Capacity to 500 GiB.
- B. Set Reserved Capacity to 500 GiB.
- C. Set Advertised Capacity to 10 GiB.
- **D. Set Reserved Capacity to 10 GiB and Advertised Capacity to 500 GiB.**

Answer: D

Explanation:

Nutanix storage containers allow administrators to configure capacity reservations and advertised limits for better resource management.

- * Option D (Set Reserved Capacity to 10 GiB and Advertised Capacity to 500 GiB) is correct:
- * Reserved Capacity ensures that 10 GiB is always available for this container and not consumed by other containers.
- * Advertised Capacity defines a logical limit of 500 GiB to prevent over-allocation.
- * Option A is incorrect:
- * Advertised Capacity of 10 GiB is too low and does not match the requirement of a 500 GiB storage container.
- * Option B is incorrect:
- * Only setting Advertised Capacity does not guarantee Reserved Capacity, meaning other containers could consume the reserved space.
- * Option C is incorrect:
- * Setting only Reserved Capacity does not enforce an upper limit, which could lead to overprovisioning.

References:

Nutanix Storage Management Guide#Understanding Storage Container Settings Nutanix KB#Advertised vs. Reserved Capacity in Storage Containers

NEW QUESTION # 134

An administrator notices high CPU usage on a VM and wants to determine whether adding more vCPUs would improve performance. Which two metrics should be analyzed to make this decision? (Choose two.)

- A. Host Memory Swap Out Rate
- **B. VM CPU Ready Time**
- C. Host CPU Usage
- **D. VM CPU Usage**

Answer: B,D

Explanation:

When diagnosing CPU performance issues, CPU Ready Time and CPU Usage are the key indicators of whether more vCPUs are needed.

- * Option A (VM CPU Ready Time) is correct:
- * High CPU Ready Time means the VM is waiting for CPU resources, indicating CPU contention.
- * Option B (VM CPU Usage) is correct:
- * If CPU usage is consistently high, adding more vCPUs may improve performance.
- * Option C (Host CPU Usage) is incorrect:
- * Host-wide CPU usage does not indicate whether a specific VM needs more vCPUs.
- * Option D (Host Memory Swap Out Rate) is incorrect:
- * Memory swapping affects RAM performance, not CPU allocation.

References:

- * Nutanix Prism Central Guide#Analyzing VM CPU Performance
- * Nutanix KB#Understanding CPU Ready Time and VM Performance

NEW QUESTION # 135

An administrator is protecting an application and its data stored on Volume Groups using Protection Domains. During failover tests, all application VMs restore successfully, but the application data is completely missing. How can the Protection Domain configuration be adjusted to avoid this issue in the future? (Choose two.)

- **A. Select the "Auto protect related entities" checkbox.**
- B. Use application-consistent snapshots.
- C. Place Volume Groups in a separate Protection Domain.
- **D. Manually add Volume Groups to Protected Entities.**

Answer: A,D

Explanation:

Protection Domains (PDs) in Nutanix ensure that entire applications and their associated data are protected during failover. However, Volume Groups (VGs) are not automatically included unless explicitly configured.

* Option A (Select "Auto protect related entities") is correct:

* This setting ensures that associated Volume Groups, networks, and other dependencies are included in the Protection Domain automatically.

* Without enabling this, only the VM itself would be protected, leading to missing application data upon failover.

* Option B (Manually add Volume Groups to Protected Entities) is correct:

* If "Auto protect related entities" is not enabled, the administrator must manually add Volume Groups to the Protection Domain.

* This ensures that both VMs and their attached Volume Groups are replicated and recovered together.

* Option C (Place Volume Groups in a separate Protection Domain) is incorrect:

* Separating Volume Groups into a different PD does not guarantee they failover together with VMs.

* It is best practice to keep related VMs and Volume Groups in the same PD.

* Option D (Use application-consistent snapshots) is incorrect:

* While application-consistent snapshots improve data integrity, they do not fix missing Volume Groups in failover scenarios.

References:

* Nutanix Disaster Recovery Guide#Protection Domain Configuration and Volume Groups

* Nutanix KB#Ensuring Volume Groups Are Included in Disaster Recovery Failovers

NEW QUESTION # 136

An administrator is trying to configure Metro Availability between Nutanix ESXi-based clusters. However, the Compatible Remote Sites screen does not list all required storage containers.

Which two reasons could be a cause for this issue? (Choose two.)

- A. Source and destination hardware are from different vendors.
- **B. Both storage containers must have the same name.**
- C. The remote site storage container has compression enabled.
- **D. The destination storage container is not empty.**

Answer: B,D

Explanation:

For Metro Availability to work properly, the storage containers at both the primary and secondary sites must meet certain requirements:

* The storage containers must have the same name (Option D). This ensures that replication and failover work seamlessly. If the names do not match, the storage containers will not be listed as compatible.

* The destination storage container must be empty (Option C). Metro Availability requires a clean storage container at the secondary site to receive data. If the container already contains data, it cannot be used.

* Option A is incorrect: Different vendor hardware does not affect Metro Availability compatibility.

* Option B is incorrect: Compression does not affect Metro Availability compatibility. However, it is recommended to keep compression settings aligned between sites.

References:

* Nutanix Documentation: Metro Availability Deployment Guide

* Nutanix Best Practices for Metro Availability

* Nutanix KB 2093: Troubleshooting Metro Availability Storage Container Issues

NEW QUESTION # 137

An administrator receives an alert in Prism stating:

"Storage container <container_name> on cluster <cluster_name> will run out of storage resources in approximately 1 day."

However, the cluster has plenty of available space remaining.

What configuration setting is causing the container to run out of space while the cluster has space remaining?

- A. Advertised Capacity is set too low.
- B. Compression is set too low.
- **C. Reserved Capacity is set too high.**
- D. Replication Factor is set too high.

Answer: C

Explanation:

Reserved Capacity settings define how much storage is exclusively allocated for a specific container.

* Option B (Reserved Capacity is too high) is correct:

* If too much space is reserved for a container, it can report "out of space" while the cluster still has free capacity.

* Options A, C, and D are incorrect:

* Advertised Capacity, Compression, and RF settings do not directly cause storage exhaustion unless misconfigured with Reserved Capacity.

References:

Nutanix Storage Best Practices#Configuring Reserved and Advertised Capacity Nutanix KB#Troubleshooting Storage Container Out-of-Space Alerts

NEW QUESTION # 138

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