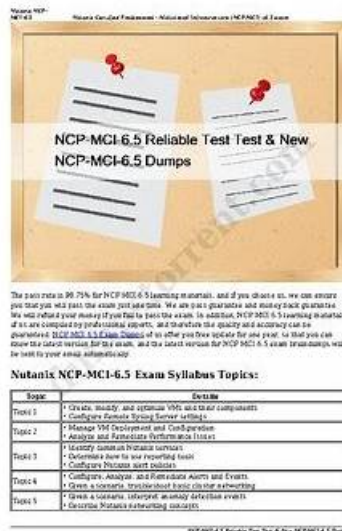


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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.

Topic 2	• 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 3	• 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 4	• 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 5	• 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.

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Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q12-Q17):

NEW QUESTION # 12

An administrator receives complaints about VM performance.

After reviewing the VM's CPU Ready Time data, which step should the administrator take to diagnose the issue further?

- A. Assess cluster SSD capacity.
- B. Check the number of vCPUs assigned to each CVM.
- C. Enable VM memory oversubscription.
- **D. Review host CPU utilization.**

Answer: D

Explanation:

CPU Ready Time indicates how long a VM waits for CPU resources due to contention.

- * Option B (Review host CPU utilization) is correct:
- * If CPU utilization is high, there may be excessive CPU overcommitment, leading to high CPU Ready Time.
- * Adding more hosts or reducing vCPU allocations may resolve the issue.
- * Option A (Check CVM vCPUs) is incorrect:
- * The Controller VM (CVM) does not directly impact application VM performance in this case.
- * Option C (Assess SSD capacity) is incorrect:
- * CPU Ready Time is unrelated to storage performance.
- * Option D (Enable VM memory oversubscription) is incorrect:
- * Memory oversubscription does not affect CPU contention.

References:

- * Nutanix Prism Central Guide #Troubleshooting VM Performance
- * Nutanix KB #Identifying High CPU Ready Time and Solutions

NEW QUESTION # 13

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

Answer: A,C

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 # 14

Within Intelligent Operations, Capacity Configurations have been set to Auto Detect for Reserve Capacity For Failure. For an RF2 cluster with 10 nodes, what effect does this have on Capacity Runway?

- **A. Reserves CPU, RAM and storage from the largest node to account for a single node failure.**
- B. Reserves RAM and CPU from the fastest node to account for a single node failure.
- C. Reserves storage and memory from the largest node to account for a single node failure.
- D. Reserves 10% of CPU, memory and storage to account for a single node failure.

Answer: A

NEW QUESTION # 15

Which predefined view in Prism Central's Intelligent Operations should be used to determine which VM is consuming excessive resources and causing performance issues for others?

- A. Constrained VMs List
- **B. Bully VMs List**
- C. Overprovisioned VMs List
- D. Inactive VMs List

Answer: B

Explanation:

The Bully VMs List (Option C) in Prism Central's Intelligent Operations identifies VMs consuming excessive CPU, memory, or storage, which negatively affects other VMs.

* Option A (Inactive VMs List) is used for identifying unused VMs but does not detect performance issues.

* Option B (Overprovisioned VMs List) helps identify VMs with excessive allocated resources, but it does not focus on live performance impact.

* Option D (Constrained VMs List) highlights VMs suffering from resource contention, not those causing it.

References:

* Nutanix Prism Central #Intelligent Operations and Performance Tuning

* Nutanix KB #Identifying and Managing Resource-Hogging VMs

NEW QUESTION # 16

An administrator is trying to delete a protected snapshot but is unable to do so. What is the most likely cause?

- **A. There is an active recovery occurring at that time.**
- B. The snapshot has been corrupted.
- C. There is an approval policy that was denied.
- D. Ransomware has encrypted the snapshot.

Answer: A

Explanation:

Snapshots that are part of an active recovery operation cannot be deleted until the process is completed or manually canceled.

* Option A (Active recovery in progress) is correct:

* Nutanix does not allow deletion of snapshots if they are being used in an ongoing recovery process.

* The administrator should verify whether the snapshot is currently part of a Protection Domain or Disaster Recovery (DR) plan.

* Option B (Ransomware encryption) is incorrect:

* Nutanix snapshots are immutable by default and cannot be encrypted by external threats.

* Option C (Approval policy denial) is incorrect:

* Snapshot deletions do not require manual approval, unless controlled by an external workflow system.

* Option D (Snapshot corruption) is incorrect:

* Nutanix uses checksums to prevent corruption, so snapshots cannot be silently damaged.

References:

* Nutanix Protection Policies #Snapshot Retention and Deletion

* Nutanix Bible #Backup & Disaster Recovery Mechanisms

* Nutanix KB #How to Delete a Snapshot Used in Recovery Plans

NEW QUESTION # 17

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