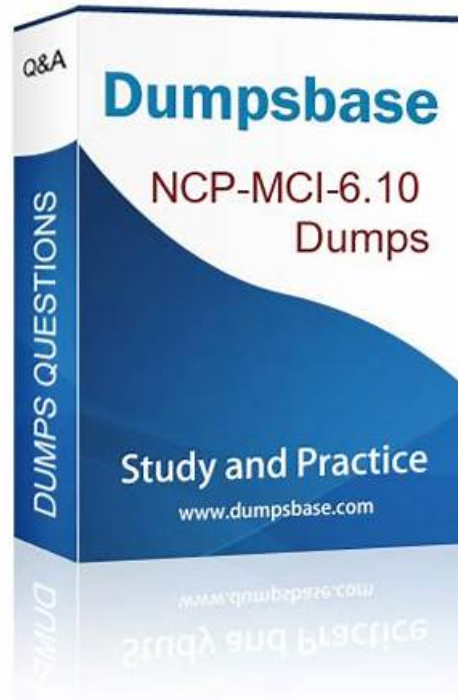# Valid NCP-MCI-6.10 Test Review & NCP-MCI-6.10 Test Guide Online

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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.

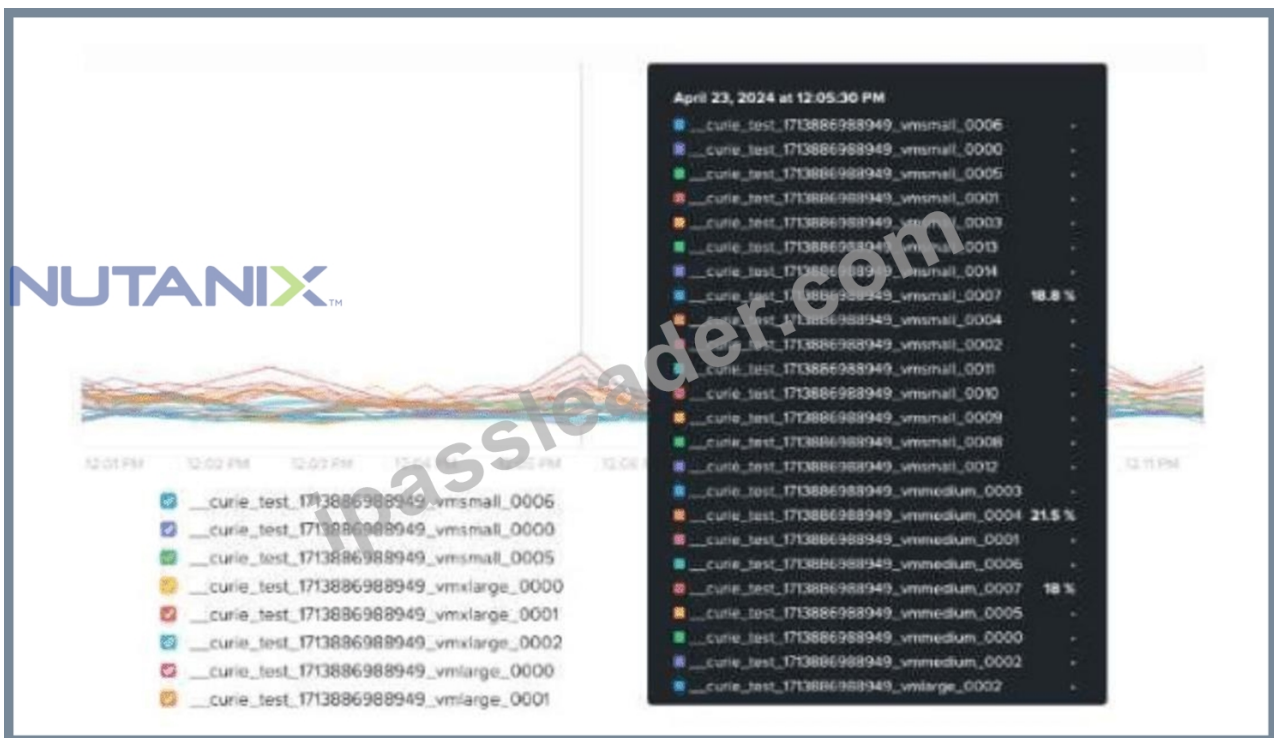|	
Topic 2	• Manage VMs within a Nutanix Multicloud Environment: This section of the exam measures the skills of Cloud Administrators and Virtualization Engineers and covers managing virtual machines (VMs) within a Nutanix multicloud environment. It includes creating and updating VMs by determining hardware 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	• 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 4	• 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 5	• 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.

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Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q89-Q94):

NEW QUESTION # 89
An administrator receives complaints about VM performance.

After reviewing theVM's CPU Ready Timedata shown in the exhibit, which step should the administrator take to diagnose the issue further?

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

Answer: C

Explanation:
Understanding the Issue
The administrator is investigating VM performance complaints and is analyzing CPU Ready Time data.
* CPU Ready Time is a crucial metric in Nutanix and virtualization environments (AHV, ESXi, or Hyper- V).
* It measures the amount of time a VM is waiting for CPU scheduling due to resource contention.
* High CPU Ready Time indicates that VMs are ready to run but are waiting because the host lacks available CPU resources.
Analysis of the Exhibit
* The graph shows CPU Ready Time spikes for multiple VMs.
* Some VMs have CPU Ready Time exceeding 18% to 21.5%, which is very high.
* A healthy CPU Ready Time should be below 5%.
* Values above 10% indicate CPU contention, and anything above 20% is critical and requires immediate troubleshooting.
Evaluating the Answer Choices
#(A) Check the number of vCPUs assigned to each CVM. (Incorrect)
* CVMs (Controller VMs) have fixed CPU allocation, and modifying their vCPU count is not recommended unless advised by Nutanix Support.
* The issue is related to VM CPU contention, not CVM configuration.
#(B) Review host CPU utilization. (Correct Answer)
* High CPU Ready Time suggests CPU overcommitment or host saturation.
* The administrator should check host CPU usage in PrismCentral to determine if the cluster is overloaded.
* If host CPU usage is consistently above 85-90%, VMs are competing for CPU resources, leading to high CPU Ready Time.
#(C) Assess cluster SSD capacity. (Incorrect)
* SSD capacity impacts storage performance (latency, read/write speeds) but does not affect CPU Ready Time.
* High CPU Ready Time is a CPU scheduling issue, not a storage bottleneck.
#(D) Enable VM memory oversubscription. (Incorrect)
* Memory oversubscription does not impact CPU scheduling.
* Enabling memory oversubscription affects RAM allocation, but CPU Ready Time is strictly related to CPU contention.
Next Steps to Diagnose & Resolve the Issue
* Review Host CPU Utilization:

* Navigate to Prism Central # Analysis # CPU Usage per Host.
* Identify hosts experiencing high CPU load.
* Check VM vCPU Allocation:
* Ensure that VMs do not have excessive vCPUs assigned, which can lead to scheduling inefficiencies.
* Overprovisioning vCPUs can cause unnecessary contention.
* Balance Workload Across Hosts:
* Use Nutanix AHV DRS (Dynamic Scheduling) or VMware DRS to redistribute VMs across hosts.
* Check if certain hosts are overloaded while others have spare CPU capacity.
* Consider Scaling Out the Cluster:
* If CPU usage is consistently high, adding more nodes may be required to reduce CPU contention.
Multicloud Infrastructure References & Best Practices
* CPU Ready Time Best Practices:
* Keep CPU Ready Time below 5%.
* Avoid overcommitting vCPUs on heavily loaded hosts.
* Monitor Prism Central Runway Metrics to predict future CPU resource needs.
* Nutanix AHV CPU Scheduling Optimization:
* Ensure proper VM sizing (avoid excessive vCPU allocation).
* Balance workloads using Nutanix AHV DRS.
References:
Nutanix Prism Central: Performance Analysis and CPU Metrics
Nutanix Bible: VM Performance and Resource Management
Nutanix KB: Troubleshooting High CPU Ready Time in AHV

NEW QUESTION # 90
An administrator needs to apply a firmware upgrade to a host and wants to manually migrate VMs before executing an LCM upgrade. All VMs but one are able to be live migrated.
Which action would fix the issue?

- A. Update Link Layer Discovery Protocol (LLDP).
- B. Disable Agent VM within VM configuration options.
- C. Configure backplane port groups that are assigned to CVM.
- D. Enable ADS (Acropolis Dynamic Scheduling) at the cluster level.

Answer: B

Explanation:
Within Nutanix VM classification, Agent VMs are special-purpose system VMs designated for infrastructure tasks. The internal definition states:
"Agent VMs are not live-migratable and do not participate in high-availability evacuation; they are excluded from standard host maintenance operations." If a VM is mistakenly marked as an Agent VM, the hypervisor will block all migration attempts. Disabling the Agent VM flag returns the VM to standard workload treatment, making it eligible for live migration.
Updating LLDP has no relevance to VM migration. Backplane port groups affect CVM networking only.
ADS influences workload placement but not migration eligibility.
Therefore, removing the Agent VM designation is required to allow migration.

NEW QUESTION # 91
An administrator needs to perform an LCM upgrade on an AHV host with GPUs.
What additional step is required before upgrading the host?

- A. Update NCC to the latest version and re-run Inventory.
- B. Run LCM in dark site mode so it can update AHV independently.
- C. Use Direct Uploads to upload appropriate driver bundles.
- D. Create an agent VM on each host that has GPU drivers installed.

Answer: A

NEW QUESTION # 92

An administrator is configuring Protection Policies to replicate VMs to a new Nutanix Cloud Cluster (NC2) connected via the Internet.

To comply with an organizational security policy, data sent via the Internet must be encrypted.

Which feature should be taken into account to be compliant?

- A. Configure Data on a self-encrypting drive.
- B. Enable Data at Rest Encryption.
- C. Enable Data-in-Transit Encryption.
- D. Configure VMs to use UEFI secure boot.

Answer: C

Explanation:

Nutanix Protection Policies replicate VM data between clusters using Nutanix's built-in data protection engine. For inter-site or cloud-based replication, Nutanix documentation specifies that replication traffic can be encrypted using the Data-in-Transit Encryption feature. The internal description states:

"Data-in-Transit Encryption secures replication traffic moving between clusters by encrypting data packets before transmission across external or untrusted networks." This is distinct from Data-at-Rest Encryption, which protects stored data on disks but does not secure network traffic. Self-encrypting drives and secure boot only protect the VM locally, not the replication path. Because replication to NC2 travels over the Internet, encryption of the transport channel is mandatory to meet security compliance. Therefore, the required capability is Data-in-Transit Encryption.

NEW QUESTION # 93
An administrator is preparing for afirmware upgradeon a host and wants to manuallymigrate VMs before executing the LCM upgrade. However,one VM is unable to migratewhile others migrate successfully.

Which action would fix the issue?

- A. DisableAgent VMwithin the VM configuration options.
- B. Configurebackplane port groupsthat are assigned to the CVM.
- C. UpdateLink Layer Discovery Protocol (LLDP).
- D. EnableAcropolis Dynamic Scheduling (ADS)at the cluster level.

Answer: A

NEW QUESTION # 94
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