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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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.
Topic 5	<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.

Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q35-Q40):

NEW QUESTION # 35

An administrator is configuring a replication schedule on multiple remote locations deployed using a single- node cluster and would like to achieve the lowest RPO.

- A. Configure schedule for 1-15 minutes.
- B. Configure schedule for 16-59 minutes.
- C. Configure NearSync.**
- D. Configure Asynchronous.

Answer: C

Explanation:

The Nutanix data protection guide specifies that NearSync replication provides an RPO between 1 and 15 minutes, which is the lowest RPO available for standard asynchronous-based replication models. The documentation further states that NearSync is the supported method for achieving sub-hour RPO on one- and two-node clusters. Asynchronous replication has a minimum RPO of 60 minutes and therefore cannot be used for lowest RPO requirements. While scheduling intervals such as 1-15 minutes appear similar, Nutanix notes that these intervals are only achievable under the NearSync replication mode. Therefore, selecting NearSync is the required configuration to meet the goal of achieving the lowest RPO.

NEW QUESTION # 36

An administrator attempted to enable Data-in-Transit Encryption on a Scale-Out Prism Central cluster to encrypt service-level traffic between nodes. However, the feature did not work correctly due to a firewall restriction.

Which CVM-specific port should be allowed through the firewall for Data-in-Transit Encryption?

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

Answer: D

NEW QUESTION # 37

An administrator wants to live-migrate a vGPU-enabled VM from one host to another within the same cluster.

What requirements must be met before initiating the migration?

- A. The VM must be configured as an agent VM.
- B. The host affinity for the VM must be set to a specific host.
- C. The vGPU profile needs to be changed.
- D. The target host has sufficient resources to support the VM.

Answer: D

Explanation:

vGPU-enabled VMs can only be migrated if the destination host has a compatible GPU and sufficient resources.

* Option A (Target host must have sufficient resources) is correct:

* The target host must have the same GPU model and enough available resources to support the VM.

* vGPU cannot be live-migrated across incompatible hardware.

* Option B (vGPU profile change) is incorrect:

* The profile does not need to be changed as long as the target host has the same configuration.

* Option C (Agent VM required) is incorrect:

* Agent VMs are not necessary for vGPU migration.

* Option D (Host affinity) is incorrect:

* Host affinity limits movement, but is not a prerequisite for migration.

References:

* Nutanix AHV Best Practices #Migrating vGPU-Enabled VMs

* Nutanix KB #Requirements for Live-Migrating vGPU VMs

NEW QUESTION # 38

An administrator is experiencing performance issues within a VM and believes that more vCPU should be added to the specific VM.

The cluster as a whole appears to be performing well.

Which two metrics should be analyzed to determine if adding more vCPUs is warranted? (Choose two.)

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

Answer: A,D

Explanation:

The Nutanix ECA course provides guidance on performance monitoring and troubleshooting for VMs, including metrics to analyze when determining whether additional vCPUs are needed. The scenario involves a VM experiencing performance issues, with the cluster performing well overall, suggesting the issue is VM-specific.

Extract from Nutanix Enterprise Cloud Administration (ECA) Course Documents:

* Module: Performance Monitoring, Section: VM Performance Metrics "To determine if a VM requires additional vCPUs, analyze VM CPU Usage and VM CPU Ready Time. High CPU Usage indicates the VM is under heavy load, while high CPU Ready Time

suggests the VM is waiting for CPU resources, both justifying additional vCPUs."

* Module: Troubleshooting, Section: VM Performance Issues "When a VM experiences performance issues, VM CPU Usage and VM CPU Ready Time are critical metrics. CPU Usage shows demand, while CPU Ready Time indicates contention or scheduling delays, helping determine if more vCPUs are warranted." Explanation of Options:

* A. VM CPU Usage This is correct. VM CPU Usage measures the percentage of CPU resources the VM is consuming. High CPU Usage (e.g., consistently above 80-90%) indicates that the VM is under heavy load and may benefit from additional vCPUs to handle the workload. The ECA course emphasizes: "VM CPU Usage is the primary metric to assess whether a VM's CPU allocation is sufficient for its workload."

* B. VM CPU Ready Time This is correct. VM CPU Ready Time measures the time a VM is ready to run but waiting for CPU resources from the hypervisor due to contention or oversubscription. High CPU Ready Time (e.g., above 5-10%) suggests that the VM is not getting enough CPU cycles, and adding vCPUs could alleviate the issue. The ECA course notes: "High VM CPU Ready Time indicates CPU contention, often resolved by adding vCPUs or optimizing resource allocation."

* C. Host Memory Swap Out Rate This is incorrect. Host Memory Swap Out Rate indicates memory pressure on the host, causing memory pages to be swapped to disk. While this can affect VM performance, it is unrelated to CPU performance and does not justify adding vCPUs. The ECA course states: "Host Memory Swap Out Rate is relevant for memory-related issues, not CPU allocation decisions."

* D. Host CPU Usage This is incorrect. Host CPU Usage measures the overall CPU utilization of the host, not the specific VM. Since the cluster is performing well overall, high Host CPU Usage is unlikely, and it does not directly indicate whether the VM needs more vCPUs. The ECA course clarifies: "Host CPU Usage is a cluster-wide metric and less relevant for diagnosing VM-specific CPU performance issues." Additional Context from ECA:

* Performance Monitoring Tools: In Prism Element or Prism Central, VM CPU Usage and CPU Ready Time can be monitored under VM > Monitor or through dashboards. These metrics provide insight into the VM's CPU demand and contention.

* Adding vCPUs: The ECA course advises caution when adding vCPUs, as over-allocation can increase CPU Ready Time due to scheduling overhead. However, if both CPU Usage and Ready Time are high, adding vCPUs is justified.

Supporting Reference from Web Results:

The Nutanix Bible (<https://www.nutanix.com/go/the-nutanix-bible>) supports: "For VM performance issues, analyze VM CPU Usage and CPU Ready Time to determine if additional vCPUs are needed, as these metrics directly indicate CPU demand and contention."

NEW QUESTION # 39

After upgrading Prism Central from PC2022.1 to PC2024.1, an administrator is unable to log in with their IAM domain account. What is the first troubleshooting step the administrator should take?

- A. Validate the trusted signing certificate of the organization.
- B. Ensure port 9441 is open in the firewall.
- **C. Log in with a local admin account.**
- D. Ping the Domain Controller from the CVM.

Answer: C

Explanation:

After a Prism Central upgrade, IAM authentication settings may require reconfiguration.

* Option D (Log in with a local admin account) is correct:

* If IAM authentication fails, the local admin account must be used to check domain settings.

* Option A (Ping the Domain Controller) is incorrect:

* Network connectivity is important, but the issue is likely related to IAM settings, not network reachability.

* Option B (Check firewall port 9441) is incorrect:

* Port 9441 is used for SSO authentication, but port issues usually result in login delays, not complete failures.

* Option C (Validate signing certificate) is incorrect:

* While certificates can cause issues, local admin login should always work.

References:

* Nutanix KB # Troubleshooting IAM Login Issues After a Prism Central Upgrade

* Nutanix Documentation # Managing User Authentication and IAM Integration

NEW QUESTION # 40

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