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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| 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"> 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. |

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|---------|---|
| Topic 3 | <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 4 | <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 5 | <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. |

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Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q119-Q124):

NEW QUESTION # 119

Due to application requirements, an administrator needs to support a multicast configuration in an AHV cluster.

Which AHV feature can be used to optimize network traffic so that multicast traffic is only forwarded to the VMs that need to receive it?

- A. UDP
- **B. IGMP Snooping**
- C. Network Segmentation
- D. LACP

Answer: B

NEW QUESTION # 120

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

Answer: A,C

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 # 121

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 Usage
- C. Host CPU Usage
- D. VM CPU Ready Time

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 # 122

An administrator has configured AHV Metro Availability with Witness and is testing failover scenarios.

During testing, the administrator disconnects the primary and recovery clusters but Prism Central remains connected to the recovery site.

What are two expected system behaviors? (Choose two.)

- A. Guest VM I/O operations pause (freeze) until connectivity is restored.
- B. Guest VMs failover automatically to the recovery cluster.
- C. Guest VM I/O operations pause (freeze) until connectivity between Prism Central and the primary site is restored.
- D. Guest VMs continue to run on the primary cluster.

Answer: A,B

Explanation:

When connectivity between Metro clusters is lost, Nutanix Metro Availability ensures data integrity using Witness for automatic failover.

- * Option A (Guest VM I/O operations pause until connectivity is restored) is correct:
- * Metro Availability enforces data consistency, so I/O operations pause until failover is confirmed.
- * Option C (Guest VMs failover automatically to the recovery cluster) is correct:
- * The Witness VM detects the failure and initiates an automatic failover to the secondary cluster.
- * Option B is incorrect:
- * Prism Central does not control VM failover in Metro Availability.
- * Option D is incorrect:
- * The primary cluster is unreachable, so VMs cannot continue running there.

References:

Nutanix Metro Availability Guide#How Witness Handles Failover Scenarios
Nutanix KB#I/O Freezing and Failover Behavior in Metro Clusters

NEW QUESTION # 123

An administrator needs to create a single chart showing multiple storage bandwidth metrics a VM is consuming. Which type of chart should the administrator create?

- A. Hypervisor Performance Chart
- B. Entity Chart
- C. VM Summary Chart
- D. Metric Chart

Answer: B

Explanation:

Entity Charts in Nutanix Prism Central allow multiple metrics from a single entity (e.g., VM, storage container) to be displayed on a single graph.

- * Option B (Entity Chart) is correct:
- * This allows the administrator to track multiple performance metrics (e.g., read/write bandwidth, IOPS) for a specific VM.
- * Option A (Metric Chart) is incorrect:
- * Metric Charts track a single metric across multiple entities, which does not meet the requirement of displaying multiple metrics for a single VM.
- * Option C (Hypervisor Performance Chart) is incorrect:
- * Hypervisor Performance Chart tracks host-level metrics, not VM-specific bandwidth metrics.
- * Option D (VM Summary Chart) is incorrect:
- * VM Summary Chart only provides an overview and does not support custom multi-metric tracking.

References:

- * Nutanix Prism Central Guide#Entity vs. Metric Charts for Performance Analysis
- * Nutanix KB#Creating Custom Charts in Prism Central

NEW QUESTION # 124

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