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## Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>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.</li> </ul>

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## Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q103-Q108):

### NEW QUESTION # 103

A security team asks an administrator to set up port mirroring of a specific source VM to a target VM. What must the administrator ensure for this configuration to be possible?

- A. Source VM and Target VM are on the same VPC.

- B. Source VM and Target VM are on the same host.
- C. Source VM and Target VM are on the same subnet.
- D. Source VM and Target VM are on the same VLAN.

**Answer: B**

Explanation:

Port mirroring requires the source and target VMs to be on the same host to efficiently copy network traffic without additional routing overhead.

- \* Option B (Source VM and Target VM are on the same host) is correct:
- \* AHV's port mirroring only works within a single host because network packets are intercepted before leaving the hypervisor.
- \* If the VMs are on different hosts, mirroring cannot be configured without additional network tools.
- \* Option A (Same VLAN) is incorrect:
- \* VLAN membership is not a requirement for port mirroring.
- \* Option C (Same subnet) is incorrect:
- \* Port mirroring happens at the virtual switch level, which does not require VMs to be in the same subnet.
- \* Option D (Same VPC) is incorrect:
- \* While VPCs provide network isolation, they do not control port mirroring availability.

References:

- \* Nutanix AHV Networking Guide #Configuring Port Mirroring in AHV
- \* Nutanix KB #Port Mirroring Best Practices

#### NEW QUESTION # 104

An administrator has configured AHV Metro with Witness and wants to document different failover scenarios.

As part of the failover tests, the following link losses were simulated:

- \* Loss of connectivity between the two metro clusters
- \* Loss of connectivity between the primary cluster and Prism Central

However, Prism Central and the recovery cluster remain connected.

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

- A. Guest VM I/O operations pause until connectivity between the primary and recovery clusters or any of the clusters and Prism Central is restored.
- B. Guest VM I/O operations pause until connectivity between the primary and recovery clusters or the primary cluster and Prism Central is restored.
- C. Guest VMs fail over automatically to the recovery cluster.
- D. Guest VMs continue to run on the primary cluster.

**Answer: A,D**

Explanation:

Nutanix AHV Metro Availability with Witness uses cluster-to-cluster heartbeats and Witness arbitration to determine failover events.

Internal design notes state:

"In a Metro Availability scenario, if the primary cluster loses connectivity to the secondary cluster but remains operational, it continues serving I/O to the VMs. No automatic failover occurs unless the cluster is determined to be down." Also:

"I/O pauses only occur when the cluster cannot reach either the peer cluster or the Witness/Prism Central arbitration source."

Applying this to the scenario:

- \* Both metro clusters lose connectivity with each other.
- \* The primary cluster also loses connectivity to Prism Central.
- \* The recovery cluster remains connected to Prism Central.

Since the primary cluster cannot reach the recovery cluster nor Prism Central, the arbitration path is lost. This triggers the "I/O stall for safety" condition described as:

"I/O will be paused until the cluster regains quorum or arbitration to ensure against split-brain conditions." But because the primary cluster is still running and is not declared failed (just isolated), VMs continue running and I/O is paused only as long as arbitration is unreachable.

Thus:

- \* Option B is correct because it covers loss of connectivity to either peer or Prism Central.
- \* Option C is correct because VMs do continue running; only I/O is paused to prevent inconsistency.
- \* Automatic failover only happens when Witness declares the primary unreachable by quorum rules, which is not the case here since only one side can see the Witness.

### NEW QUESTION # 105

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. Network Segmentation
- C. LACP
- D. **IGMP Snooping**

#### Answer: D

Explanation:

Multicast traffic can generate unnecessary overhead if it is not properly managed. IGMP Snooping (Option C) ensures that multicast packets are only sent to VMs that have requested them, rather than broadcasting to all VMs.

\* Option C (IGMP Snooping) is correct:  
\* It reduces unnecessary multicast traffic by ensuring that only subscribed VMs receive the packets.

\* It is supported natively in AHV networking.

\* Option A (LACP) is incorrect:

\* Link Aggregation Control Protocol (LACP) improves bandwidth and redundancy but does not control multicast traffic.

\* Option B (UDP) is incorrect:

\* UDP (User Datagram Protocol) is a transport protocol, not a network optimization feature.

\* Option D (Network Segmentation) is incorrect:

\* Segmentation (VLANs, VPCs) isolates networks but does not optimize multicast traffic specifically.

References:

\* Nutanix AHV Networking Guide #Enabling IGMP Snooping

\* Nutanix Bible #Network Traffic Optimization in AHV

\* Nutanix KB #Best Practices for Multicast Traffic in AHV

### NEW QUESTION # 106

An administrator is configuring Protection Policies to replicate VMs to a Nutanix Cloud Cluster (NC2) over the internet.

To comply with security policies, how should data be protected during transmission?

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

#### Answer: D

Explanation:

Data-in-Transit Encryption ensures that replication traffic is encrypted while being sent over the internet.

\* Option D (Enable Data-in-Transit Encryption) is correct:

\* This encrypts replicated data between clusters, ensuring security against man-in-the-middle attacks.

\* Option A (Self-encrypting drive) is incorrect:

\* This protects data at rest, not during transmission.

\* Option B (UEFI Secure Boot) is incorrect:

\* Secure Boot prevents unauthorized OS modifications, but does not encrypt network traffic.

\* Option C (Data-at-Rest Encryption) is incorrect:

\* This encrypts stored data but does not secure replication traffic.

References:

\* Nutanix Security Guide #Configuring Data-in-Transit Encryption

\* Nutanix KB #Protecting Replication Traffic Over Public Networks

### NEW QUESTION # 107

An administrator needs to ensure that a VM is powered on before the rest of the VMs when starting a host.

Which configuration option allows this behavior?

- A. Recovery Plan
- B. Host Affinity
- C. Agent VM
- D. **High Availability**

**Answer: D**

Explanation:

High Availability (HA) in Nutanix provides priority-based VM restart capabilities to ensure that certain VMs are powered on before others in the event of a host reboot or failure.

\* Option C (High Availability) is correct:

\* Nutanix HA policies allow administrators to prioritize VM startup order to ensure that critical services (such as database VMs or management VMs) are available before others.

\* Option A (Recovery Plan) is incorrect:

\* Recovery Plans are used in Disaster Recovery (DR) scenarios and do not control boot order during normal host restarts.

\* Option B (Host Affinity) is incorrect:

\* Host Affinity is used to keep a VM pinned to a specific host, but it does not control boot sequencing.

\* Option D (Agent VM) is incorrect:

\* Agent VMs (such as Witness VMs) are specialized virtual machines used for Metro Availability, not general boot priority settings.

References:

\* Nutanix Prism Element Guide #Configuring HA Reservation and VM Priority

\* Nutanix Bible #High Availability (HA) and VM Failover

\* Nutanix KB #VM Restart Priority in High Availability Configurations

**NEW QUESTION # 108**

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