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

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• <b>Manage VMs within a Nutanix Multicloud Environment:</b> 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 2	<ul style="list-style-type: none"> <li>• <b>Troubleshoot a Nutanix Multicloud Environment:</b> 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 3	<ul style="list-style-type: none"> <li>• <b>Configure Disaster Recovery and Data Protection within a Nutanix Multicloud Environment:</b> 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 4	<ul style="list-style-type: none"> <li>• <b>Manage Clusters within a Nutanix Multicloud Environment:</b> 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>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Conduct Custom Monitoring within a Nutanix Multicloud Environment:</b> 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>

## Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q141-Q146):

### NEW QUESTION # 141

Which storage attributes do Storage Policies manage?

- A. Storage Containers and Volume Groups
- B. Shares and Object Stores
- **C. Replication Factor and Encryption**
- D. Data Protection and Security

**Answer: C**

Explanation:

Storage Policies in Nutanix allow administrators to configure data protection and performance settings at the storage container level.

- \* Replication Factor (RF) defines the number of copies of data stored across nodes for fault tolerance.
- \* Encryption ensures that data at rest is protected via Nutanix-native encryption methods.
- \* Option A (Storage Containers and Volume Groups) refers to storage organization, not policies.
- \* Option C (Shares and Object Stores) applies to file and object storage services, not VM storage policies.
- \* Option D (Data Protection and Security) is a broad term but does not define specific policy attributes.

References:

- \* Nutanix Prism Element #Storage Policies and Replication Factor (RF)
- \* Nutanix Bible #Storage Fabric and Data Resiliency
- \* Nutanix KB #Enabling Encryption in Storage Policies

#### NEW QUESTION # 142

An administrator needs to create a storage container named TestData with the following conditions:

Replication Factor (RF) = 1 (RF1)

Inline Compression enabled

Deduplication disabled

Maximum storage capacity = 100 GiB

How should the administrator complete this task?

- A. Log into Prism Element and create the storage container.
- B. Log into Prism Central and create the storage container with a Reserved Capacity of 100 GiB.
- C. Log into Prism Central and create the storage container.
- D. Log into Prism Element and create the storage container with an Advertised Capacity of 100 GiB.

**Answer: D**

#### NEW QUESTION # 143

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

**Answer: A**

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 # 144

Which two actions occur by default on a node that is placed in Maintenance Mode? (Choose two.)

- A. All eligible VMs on the host are migrated to other hosts in the cluster.
- B. Non-migratable VMs are powered off and restarted on other hosts in the cluster.
- C. All eligible VMs on the host are powered off.
- D. Non-migratable VMs are powered off.

**Answer: A,D**

Explanation:

When a node is placed into Maintenance Mode, Nutanix follows a structured process to ensure service continuity and data integrity.

- \* Option B (All eligible VMs on the host are migrated to other hosts) is correct:
- \* Live Migration automatically moves VMs to other hosts to avoid downtime.
- \* This ensures workloads remain operational during maintenance.
- \* Option D (Non-migratable VMs are powered off) is correct:
- \* Some VMs, such as those using GPU pass-through or local storage dependencies, cannot be live-migrated.
- \* These VMs must be powered off before placing the host into Maintenance Mode.
- \* Option A is incorrect:
- \* Non-migratable VMs are not automatically restarted on other hosts—they remain powered off until manually restarted.
- \* Option C is incorrect:
- \* Eligible VMs are live-migrated, not powered off.

References:

- \* Nutanix AHV Best Practices#Understanding Maintenance Mode Behavior
- \* Nutanix KB#VM Migration and Power-Off Scenarios in Maintenance Mode

### NEW QUESTION # 145

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: C**

Explanation:

In Nutanix AHV-based clusters, when you want to ensure that a specific VM (e.g., a critical VM like a domain controller) is powered on before other VMs during a host startup or failover scenario, you use the Agent VM configuration setting.

Here's the exact explanation from the Nutanix ECA course:

"Agent VMs are special VMs that are automatically powered on before other user VMs during host startup or recovery. This ensures that critical VMs, such as those that provide essential services, are always available first." In contrast:

#Recovery Plan (A) - This is used in the context of DR and failover, typically with Nutanix Leap.

#Host Affinity (B) - Host affinity rules control placement policies of VMs but not startup priority.

#High Availability (C) - HA ensures VMs are restarted on surviving hosts but does not control startup order.

Therefore, setting the VM as an Agent VM guarantees that it is powered on before the other VMs during host start-up. Let me know if you'd like steps on how to configure an Agent VM within Prism Central or Prism Element!

### NEW QUESTION # 146

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