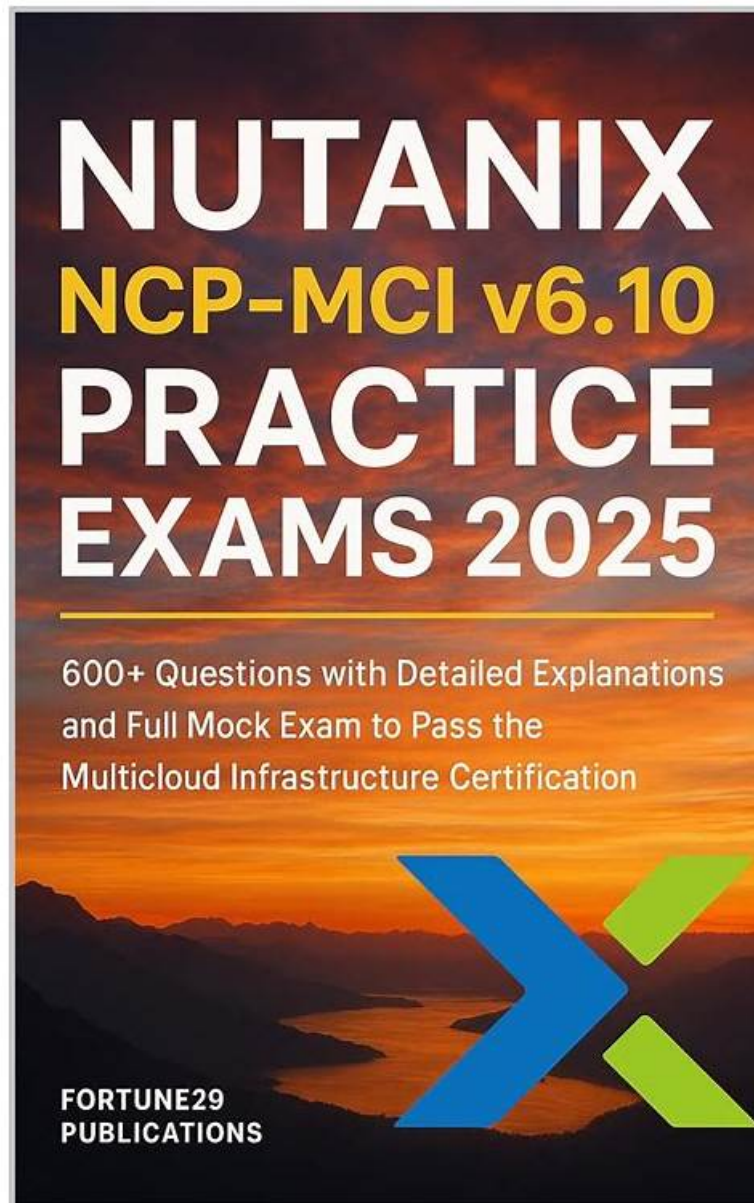


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### Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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 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>
Topic 4	<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 5	<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>
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## Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q173-Q178):

### NEW QUESTION # 173

An administrator is configuring Nutanix Disaster Recovery (DR) for a cross-hypervisor setup (ESXi to AHV) but finds that guest VMs do not recover properly at the DR location.

What is required for a successful cross-hypervisor DR event?

- A. Use raw device mappings.
- B. Deploy Legacy BIOS boot on hosts within the cluster.
- **C. Nutanix Guest Tools (NGT) must be installed on source guest VMs.**
- D. Utilize delta disks.

**Answer: C**

Explanation:

For cross-hypervisor DR failover (e.g., ESXi to AHV), Nutanix Guest Tools (NGT) must be installed on VMs to ensure proper configuration and recovery.

- \* Option D (NGT must be installed on source guest VMs) is correct:
- \* NGT ensures correct reconfiguration of VM devices and networking settings during failover.
- \* It handles disk and driver reassignments between ESXi and AHV.
- \* Option A (Utilize delta disks) is incorrect:
- \* Delta disks are used in snapshot optimization, not DR failover.
- \* Option B (Deploy Legacy BIOS boot) is incorrect:
- \* AHV prefers UEFI boot mode, and Legacy BIOS is not a requirement.
- \* Option C (Use raw device mappings) is incorrect:
- \* RDMs are VMware-specific and are not used in AHV failover scenarios.

References:

- \* Nutanix Disaster Recovery Guide#Cross-Hypervisor Failover Best Practices
- \* Nutanix KB#Ensuring VM Compatibility During ESXi to AHV DR

### NEW QUESTION # 174

An administrator is configuring a replication schedule on multiple remote locations deployed using a single-node cluster. The goal is to achieve the lowest possible RPO (Recovery Point Objective).

How should the administrator configure the replication schedule?

- **A. Configure a schedule for 1 minute up to 15 minutes.**
- B. Configure Async replication.
- C. Configure a schedule for 16 minutes up to 59 minutes.
- D. Configure NearSync replication.

**Answer: A**

Explanation:

Nutanix NearSync replication provides the lowest RPO (as low as 1 minute) and is the best option for minimizing data loss in DR scenarios.

- \* Option D (Configure a schedule for 1 minute up to 15 minutes) is correct:
- \* NearSync allows an RPO as low as 1 minute, providing near-continuous data protection.

- \* This is ideal for mission-critical applications where minimal data loss is required.
- \* Option A (Configure NearSync) is incorrect:
- \* While NearSync is the best choice, just enabling it is not enough—the schedule must be set to 1-15 minutes.
- \* Option B (16 to 59 minutes) is incorrect:
- \* NearSync operates within a 1-15 minute range. If set above 15 minutes, it defaults to Async replication.
- \* Option C (Async replication) is incorrect:
- \* Async replication typically has an RPO of 1 hour or more, which does not meet the lowest RPO requirement.

References:

- \* Nutanix Protection Policies Guide#NearSync vs. Async Replication
- \* Nutanix Bible#RPO and RTO in Disaster Recovery
- \* Nutanix KB#Configuring NearSync Replication for Single-Node Clusters

### NEW QUESTION # 175

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 # 176

An administrator has received complaints about VM performance.

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

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

**Answer: C**

Explanation:

Nutanix performance troubleshooting guidelines highlight CPU Ready Time as a key indicator of CPU contention. The documentation explains:

"High CPU Ready Time indicates that vCPUs are waiting to be scheduled on physical cores due to host CPU saturation or CPU overcommitment." CPU Ready Time does not relate to storage issues or CVM sizing. Instead, it indicates that the hypervisor cannot schedule VM CPU operations promptly.

Internal extracts clearly describe the next diagnostic step:

"When CPU ready metrics rise, the first step is to check physical host CPU utilization to confirm whether the host is oversubscribed or running at high CPU usage." If the host is overloaded, remediation includes distributing VMs across hosts, reducing vCPU count on oversized VMs, or adding compute resources.

Other options are irrelevant:

- \* Memory oversubscription is unrelated to CPU Ready Time.
- \* SSD capacity affects storage latency, not CPU scheduling.
- \* CVM CPU counts do not cause VM CPU Ready Time; CVM resource misconfiguration affects cluster services, not guest VM scheduling.

Thus, reviewing host CPU utilization is the correct next step.

### NEW QUESTION # 177

An administrator migrated a physical MySQL database to a Nutanix cluster. After migration, peak load IOPS are lower than expected and latency is higher.

Which two steps should the administrator take to improve this behavior? (Choose two.)

- A. Use LVM to stripe the SQL data across multiple vDisks.
- B. Ensure that SQL data vDisks are thick provisioned.
- C. Create additional vDisks for SQL data.
- D. Ensure that SQL data vDisks are thin provisioned.

**Answer: A,C**

Explanation:

Nutanix storage architecture uses distributed data paths, where each vDisk represents a distributed logical object. The performance best practices for databases state:

"Multiple vDisks provide parallelism across the Nutanix storage stack, increasing I/O queue depth and distributing operations across multiple CVMs." Also, the guidance for Linux-based database workloads specifies:

"Using LVM striping across multiple vDisks increases throughput by merging multiple I/O channels and enhancing parallel read/write operations." Thin vs thick provisioning is irrelevant for performance in a Nutanix environment, as both types deliver identical I/O performance due to the metadata-driven storage engine.

Thus, database performance benefits from additional vDisks and striping across them.

## NEW QUESTION # 178

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