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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"> • 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 3	<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 4	<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 5	<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.

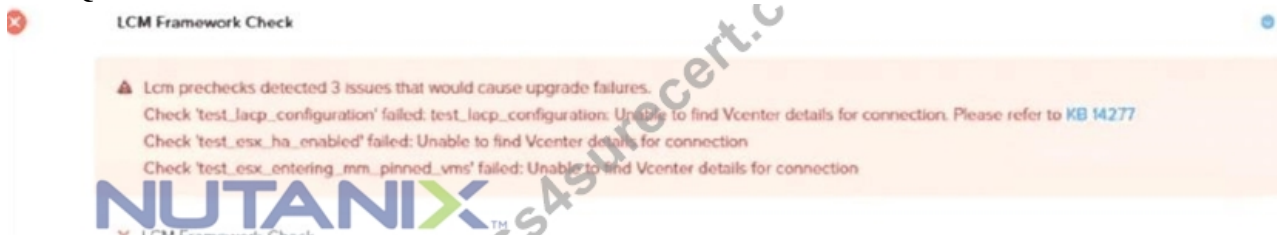
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Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q37-Q42):

NEW QUESTION # 37



LCM Framework Check

A Lcm prechecks detected 3 issues that would cause upgrade failures.

Check test_lacp_configuration' failed: test_lacp_configuration: Unable to find Vcenter details for connection.

Please refer to KB 14277 Check test_esx_ha_enabled' failed: Unable to find Vcenter details for connection Check test_es_entering_mm_pinned_vms' failed: Unable to find Vcenter details for connection X LCM Framework Check An administrator is attempting to upgrade the NIC firmware on a Nutanix cluster and sees the error displayed in the exhibit. Which log is the most appropriate to analyze the LCM precheck failure?

- A. catalog.out
- **B. lcm_ops.out**
- C. lcm_wget.out
- D. genesis.out

Answer: B

Explanation:

The LCM (Life Cycle Manager) precheck failures in this scenario indicate an inability to connect to vCenter to validate ESXi-specific checks, such as LACP configuration, HA, and pinned VMs. The appropriate log to analyze the details of the LCM precheck failures is the lcm_ops.out log.

From the Nutanix Enterprise Cloud Administration (ECA) course materials:

"The lcm_ops.out log file contains detailed output and error information related to LCM operations, including prechecks, execution, and post-checks. This log is essential for troubleshooting LCM framework failures and understanding the root cause of any issues preventing upgrades."

NEW QUESTION # 38

In a five-node cluster, an administrator noticed that three VMs are consuming too many resources on a single host.

Acropolis Dynamic Scheduling (ADS) is not able to migrate these VMs.

What is the most likely reason preventing ADS from migrating these VMs?

- A. VM-VM anti-affinity policy is set.
- B. VMs use a Volume Group.
- C. VMs use external Network Attached Storage.
- **D. VMs use GPU pass-through.**

Answer: D

Explanation:

VMs using GPU pass-through cannot be live-migrated because they are directly tied to a physical GPU on a specific host.

* Option B (VMs use GPU pass-through) is correct:

* Pass-through devices (such as GPUs) are directly assigned to VMs, making migration impossible unless the VM is powered off first.

* Option A (VMs use a Volume Group) is incorrect:

* Volume Groups support live migration unless they are configured incorrectly.

* Option C (VM-VM anti-affinity) is incorrect:

* Anti-affinity rules prevent two specific VMs from running together, but do not prevent migration.

* Option D (VMs use external NAS) is incorrect:

* Using NAS does not block VM migration, as Nutanix supports shared storage across hosts.

References:

- * Nutanix AHV Best Practices#GPU Pass-through and VM Migration Limitations
- * Nutanix KB#Why Can't I Live Migrate a VM with GPU Passthrough?

NEW QUESTION # 39

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. Metric Chart
- C. VM Summary Chart
- **D. Entity Chart**

Answer: D

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 Charts track host-level metrics, not VM-specific bandwidth metrics.

* Option D (VM Summary Chart) is incorrect:

* VM Summary Charts only provide an overview and do 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 # 40

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

Answer: B,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 # 41

An administrator is experiencing storage performance issues on a Windows Server 2019 VM with the following configuration:

- * vCPU: 1
- * VRAM: 8 GB
- * vSCSI: VirtIO SCSI Controller
- * vDisk: 2 (100 GB, 250 GB)
- * vNIC: VirtIO Fast Ethernet

The AHV cluster is healthy, and other Windows VMs are performing well.

Which configuration change should be reviewed to enhance VM performance?

- A. Add a second virtual storage controller (vSCSI).
- **B. Increase the VM's number of vCPUs.**
- C. Enable Balance-TCP on bridge (br0).
- D. Increase Controller VM (CVM) resources.

Answer: B

Explanation:

A single vCPU is likely causing a bottleneck, limiting the VM's ability to process I/O requests efficiently.

* Option D (Increase the VM's number of vCPUs) is correct:

* Windows requires sufficient CPU resources to handle disk and network operations.

* Adding more vCPUs allows the VM to process more I/O operations simultaneously, improving performance.

* Option A is incorrect:

* Additional vSCSI controllers are only useful for very high disk I/O workloads.

* Option B is incorrect:

* Balance-TCP applies to network traffic, not storage performance.

* Option C is incorrect:

* CVM resources do not directly affect individual VM performance.

References:

* Nutanix AHV Performance Tuning Guide

* Nutanix KB#Optimizing Windows VM Performance on AHV

NEW QUESTION # 42

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