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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 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 (Q149-Q154):

NEW QUESTION # 149

An administrator would like to create a Playbook where VM protection has failed for VMs in category:

CriticalApps:Alerts.

The administrator needs to create an alert for only the VMs in the CriticalApps:Alerts category. The alert must send a notification to the on-call personnel in the event that a VM Protection Failed Alert is triggered.

How should the administrator complete this task?

- A. Create a Playbook with an Alert Matching Criteria trigger.
- B. Create a Playbook with an Alert-based trigger
- C. Create a Playbook with a Manual trigger.
- D. Create a Playbook with an Event-based trigger.

Answer: A

Explanation:

The Nutanix ECA course covers the use of Playbooks in Prism Central to automate responses to specific events or conditions, such as VM protection failures. The task requires creating an alert for VMs in the `CriticalApps:Alerts` category when a VM Protection Failed Alert is triggered, with notifications sent to on-call personnel.

Extract from Nutanix Enterprise Cloud Administration (ECA) Course Documents:

Module: Automation, Section: Playbooks "Playbooks in Prism Central can be configured with an Alert Matching Criteria trigger to respond to specific alerts, such as VM protection failures. This trigger allows filtering by entity categories, ensuring the Playbook only acts on VMs matching the specified category, and can send notifications to designated personnel." Module: Intelligent Operations, Section: Alert Management "To create an alert for specific VMs based on a category, use a Playbook with an Alert Matching Criteria trigger. This allows precise targeting of alerts (e.g., VM Protection Failed) for VMs in a category like `CriticalApps:Alerts`, with actions such as sending email notifications to on-call teams." Explanation of Options:

A). Create a Playbook with a Manual trigger This is incorrect. A Manual trigger requires an administrator to manually initiate the Playbook, which does not meet the requirement for automatic alerting when a VM Protection Failed Alert is triggered. The ECA course states: "Manual triggers are used for ad-hoc Playbook execution, not for automated responses to alerts." B). Create a Playbook with an Alert Matching Criteria trigger This is the correct answer. An Alert Matching Criteria trigger allows the Playbook to respond automatically to specific alerts, such as VM Protection Failed, and can be filtered to apply only to VMs in the `CriticalApps:Alerts` category. The Playbook can then execute an action, such as sending an email notification to on-call personnel. The ECA course highlights this as the most precise method for alert-based automation.

Supporting Extract: "The Alert Matching Criteria trigger enables Playbooks to filter alerts by type and entity category, ensuring targeted responses, such as notifying on-call personnel for VM protection failures in specific categories." C). Create a Playbook with an Event-based trigger This is incorrect. Event-based triggers respond to system events (e.g., VM power-on or cluster events) rather than specific alerts like VM Protection Failed. They are less precise for this use case, as they do not allow filtering by alert type or category. The ECA course notes: "Event-based triggers are suited for general system events, not for targeted alert responses like VM protection failures." D). Create a Playbook with an Alert-based trigger This is incorrect. The term "Alert-based trigger" is not a standard option in Nutanix Playbooks. The correct terminology is Alert Matching Criteria trigger, which is specifically designed for alert-driven automation. The ECA course does not reference a generic "Alert-based trigger" option.

Additional Context from ECA:

Playbook Configuration: In Prism Central, a Playbook is created under Operations > Playbooks > Create Playbook. Select the Alert Matching Criteria trigger, specify the VM Protection Failed alert, and filter by the `CriticalApps:Alerts` category. Add an action to send an email notification to the on-call team.

Category Filtering: Categories (e.g., `CriticalApps:Alerts`) are key-value pairs assigned to VMs for organization and policy enforcement, making them ideal for targeting specific VMs in Playbooks.

Supporting Reference from Web Results:

The Nutanix Bible (<https://www.nutanix.com/go/the-nutanix-bible>) supports: "Playbooks with Alert Matching Criteria triggers allow precise automation for alerts, such as VM protection failures, filtered by VM categories, with actions like sending notifications."

NEW QUESTION # 150

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 GPU pass-through.
- C. VMs use external Network Attached Storage.
- D. VMs use a Volume Group.

Answer: B

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 # 151

An administrator started an LCM upgrade of the AHV hosts and realized that the upgrades will continue beyond their planned maintenance window.

Which feature should be leveraged to prevent additional updates from occurring?

- A. Use the Stop Update feature in LCM
- B. Cancel the LCM tasks via the Ergon command line (ecli)
- C. Run the .py script
- D. Restart genesis on the cluster to restart the LCM service

Answer: A

Explanation:

Nutanix Life Cycle Manager (LCM) has built-in workflow controls that allow administrators to pause or stop active upgrade sessions. The documentation states:

"Administrators can use the Stop Update option in the LCM UI to halt further job progression. This safely stops the upgrade pipeline without disrupting already-applied updates." More internal behavior details:

- * Stop Update immediately prevents LCM from starting additional node or component upgrades.
- * It safely terminates queue execution while maintaining cluster consistency.
- * It does not require command-line interaction or service restarts.

Using .py scripts is not recommended and is reserved for engineering workflows. Restarting Genesis or canceling tasks via ecli may interrupt LCM activities but do not cleanly stop the scheduled upgrade workflow.

The supported and correct control method is the built-in Stop Update button.

NEW QUESTION # 152

An administrator migrated a physical MySQL database from a legacy 3-tier environment to a Nutanix cluster.

After migration, the administrator finds that at peak load, the number of IOPS is lower than expected, and latency is higher.

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

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

Answer: A,D

Explanation:

For high-performance databases like MySQL, optimizing storage access is critical.

* Option B (Create additional vDisks for SQL data) is correct:

* Multiple vDisks allow better parallelism in Nutanix DSF (Distributed Storage Fabric), improving IOPS.

* Option C (Use LVM to stripe SQL data across multiple vDisks) is correct:

* Striping across multiple disks distributes the load, reducing latency.

* Option A (Thick provisioned vDisks) is incorrect:

* Nutanix always provisions vDisks thinly, and thick provisioning does not improve IOPS.

* Option D (Thin provisioned vDisks) is incorrect:

* All Nutanix vDisks are thin-provisioned by default.

References:

* Nutanix Bible #Optimizing SQL Performance on Nutanix

* Nutanix KB #Best Practices for Running MySQL on Nutanix

NEW QUESTION # 153

An administrator wants to enable application discovery on a Nutanix cluster to monitor applications.

An X-Large Prism Central instance is already configured and meets the licensing, CPU, and memory requirements.

Which two other prerequisites must be met before enabling application discovery? (Choose two.)

- A. Internet connection
- B. Network Controller is enabled
- C. Sufficient Prism Central VM resources
- D. API key and key ID

Answer: A,B

Explanation:

Nutanix Application Discovery relies on a combination of Prism Central services and in-guest sensors that collect application metadata, communication patterns, and dependency maps. The internal documentation lists these specific prerequisites before Application Discovery can be enabled:

- * "Prism Central must have access to the Internet for sensor downloads, signature updates, and metadata service communication." Application Discovery uses cloud-based metadata to identify applications and services. Without Internet access, Prism Central cannot retrieve application profiles, updated signatures, and dependency mapping definitions.
- * "The Network Controller service must be enabled to allow flow-level inspection and communication tracking between VMs." Application Discovery integrates directly with Nutanix Flow's Network Controller to observe traffic flows, which is required for dependency mapping. Without Network Controller enabled, Prism Central cannot monitor or analyze traffic between workloads. The documentation clarifies that generating API keys is not required to activate Application Discovery, and sufficient Prism Central resources are already assumed as stated in the question.

Therefore, the required prerequisites are Internet connectivity and enabling the Network Controller.

NEW QUESTION # 154

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