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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
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"> 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 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"> • 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.

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Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q157-Q162):

NEW QUESTION # 157

An administrator experiences a Recovery Plan failure for a cross-hypervisor (ESXi to AHV) DR test. Guest VMs do not recover at the DR location.

Which configuration is required for a successful event?

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

Answer: D

Explanation:

Nutanix documentation for Cross-Hypervisor Disaster Recovery (CH-DR) specifies that Nutanix Guest Tools (NGT) must be installed on all VMs participating in ESXi to AHV recovery workflows. NGT includes the VM Mobility Drivers, which are required for the VM to interpret AHV device models, storage controllers, and network adapters during recovery. The documentation notes that without NGT installed, VMs may fail to boot or attach devices correctly after being recovered on AHV. Legacy BIOS, RDMs, and delta disks are not listed as prerequisites or contributing factors for CH-DR success. Therefore, installing Nutanix Guest Tools on the source VM is mandatory for successful cross-hypervisor recovery.

NEW QUESTION # 158

An administrator has successfully configured Metro Availability for a Protection Domain. However, after a few days, an NCC warning is raised:

"Following VMs are accessing data from remote clusters: VM-1 from remote cluster Remote-ML" What is the first action an administrator must take to fix the issue?

- **A. Migrate the VM to its primary site and set appropriate rules for DRS and affinity.**
- B. Run the command:
ncc health_checks metro_availability_checks data_locality_check --cvm_list=X.X.X.20
- C. Use must-affinity rule to avoid automated VM migration to the standby datastore.
- D. Run the command:
ncli pd list metro-avail=true | egrep "Protection Domain Stretch Role" | grep "ACTIVE"

Answer: A

Explanation:

Metro Availability requires that VMs always read data from their primary site to maintain optimal performance and prevent remote data access latency.

* Option C (Migrate the VM to its primary site and set appropriate rules) is correct:

* If a VM fails over to the secondary site but is still running in the primary site, it will read data remotely, causing high latency and performance issues.

* The solution is to migrate the VM back to the primary site and configure DRS rules or host affinity settings to prevent unwanted movement.

* Option A is incorrect:

* The command lists active Metro Availability protection domains but does not resolve the issue.

* Option B is incorrect:

* Must-affinity rules can help, but they should be configured after migrating the VM back to the primary site.

* Option D is incorrect:

* Running NCC health checks will only diagnose the issue, not resolve it.

References:

* Nutanix Bible #Metro Availability and Data Locality

* Nutanix Best Practices #VM Affinity Rules for Metro Availability

* Nutanix KB #Troubleshooting Remote Data Access in Metro Availability

NEW QUESTION # 159

What can be used to easily group a set of VMs?

- A. Catalog Items
- B. Labels
- C. Projects
- **D. Tags**

Answer: D

Explanation:

The Nutanix ECA course covers various methods for organizing and managing virtual machines (VMs) within a Nutanix environment, particularly in Prism Central. The question focuses on easily grouping a set of VMs, which requires a mechanism that is flexible, scalable, and straightforward to apply across multiple VMs for management, reporting, or policy application.

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

* Module: Prism Central Management, Section: Entity Organization "Tags provide a flexible way to group entities such as VMs in Prism Central. Tags are key-value pairs that can be assigned to VMs to categorize them for management, reporting, or policy enforcement. They are easy to apply and can be used to group VMs dynamically across clusters."

* Module: VM Management, Section: Grouping VMs "To group a set of VMs for simplified management, Tags are the recommended approach. Unlike Categories, which are used for role-based access control and policy enforcement, Tags are lightweight and ideal for custom grouping without additional configuration overhead." Explanation of Options:

* A. Catalog Items This is incorrect. Catalog Items in Nutanix are used within the Nutanix Calm or Marketplace to manage application blueprints or service offerings, not for grouping VMs. The ECA course states: "Catalog Items represent deployable applications or services in the Marketplace, not a mechanism for grouping existing VMs." They are unrelated to VM organization.

* B. Labels This is incorrect. The term "Labels" is not used in Nutanix ECA documentation for grouping VMs. While Labels may be a generic term in other platforms, Nutanix uses "Tags" or "Categories" for similar purposes. The ECA materials do not reference Labels as a feature in Prism Central or Prism Element for VM grouping.

* C. Projects This is incorrect. Projects in Nutanix Prism Central are used to manage resources, users, and policies for a group of workloads, typically for multi-tenancy or resource allocation. While VMs can be associated with Projects, this involves additional

configuration (e.g., assigning users, quotas, and policies) and is not the easiest way to group VMs. The ECA course notes: "Projects are used for resource governance and multi-tenancy, requiring additional setup compared to Tags for simple VM grouping."

* D. Tags This is the correct answer. Tags are lightweight, user-defined key-value pairs that can be applied to VMs in Prism Central to group them for management, monitoring, or reporting purposes. The ECA course emphasizes that Tags are easy to assign and manage, making them ideal for grouping VMs without the overhead of other mechanisms like Categories or Projects. Tags can be applied to multiple VMs at once and used in searches, dashboards, or scripts.

* Supporting Extract: "Tags allow administrators to quickly group VMs by assigning custom key-value pairs, such as 'Department: HR' or 'Environment: Production.' They are ideal for ad-hoc grouping and can be leveraged in Prism Central for filtering and management tasks." Additional Context from ECA:

* Tags are managed in Prism Central under the Entities > Tags section, where administrators can create, assign, and manage Tags for VMs and other entities. The ECA course highlights their simplicity: "Tags require minimal configuration and can be applied to VMs in bulk, making them the easiest method for grouping."

* Unlike Categories, which are used for policy enforcement (e.g., security or placement policies), Tags are purely for organizational purposes, aligning with the question's focus on ease of use.

Supporting Reference from Web Results:

The Nutanix Bible (<https://www.nutanix.com/go/the-nutanix-bible>) aligns with the ECA documentation: "Tags in Prism Central provide a simple and flexible way to organize VMs and other entities, enabling administrators to group resources for management or reporting without complex configurations."

NEW QUESTION # 160

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

Explanation:

https://portal.nutanix.com/page/documents/details?targetId=Nutanix-Security-Guide-v6_10-mul-configure-data-in-transit-encryption-pc-t.html

* "Ensure that port 2009 is open between the Prism Central instances for the KMS cluster to communicate." This is explicitly stated in the "Firewall rules for Data-in-Transit Encryption" section for Prism Central.

* Technical Context:

* Port 2009 is used by ZooKeeper (the coordination service for the KMS cluster) in Scale-Out Prism Central deployments.

* DiTE in Prism Central relies on a dedicated KMS cluster that synchronizes encryption keys across PC instances using this port.

* Firewall blocks on port 2009 break KMS quorum, preventing key exchange and causing DiTE to fail.

NEW QUESTION # 161

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

Answer: C

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 # 162

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