



## **Nutanix**

### **Exam Questions NCP-MCI-6.10**

Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10)

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### NEW QUESTION 1

If an administrator creates a report with no retention policy configured, how many instances of the report are retained by default?

- A. 5
- B. 10
- C. 15
- D. 20

**Answer: B**

#### Explanation:

By default, Nutanix Prism Central retains the last 10 instances of a report if no retention policy is configured.

? Option B (10) is correct:

? Options A (5), C (15), and D (20) are incorrect:

References:

? Nutanix Prism Central Guide Report Generation and Retention Policies

? Nutanix KB How Reports Are Stored and Managed in Prism Central

### NEW QUESTION 2

The team leads of a development environment want to limit developer access to a specific set of VMs.

What is the most efficient way to enable the team leads to directly manage these VMs?

- A. Create a role mapping for each team lead and assign appropriately.
- B. Create a VPC for each team lead and give them VPC Admin.
- C. Create a Project for each team lead and assign access.
- D. Create Security Policies to isolate users.

**Answer: C**

#### Explanation:

The most efficient way to allow team leads to manage a specific set of VMs is by creating a Project (Option C) in Prism Central and assigning the team leads to that Project.

? Nutanix Projects allow administrators to control VM access based on groups and permissions, ensuring that users only manage VMs assigned to their project.

? Option A (Role Mapping) applies more broadly to roles but does not restrict access to specific VM groups.

? Option B (VPC Admin) is related to network segmentation, not VM access control.

? Option D (Security Policies) are used for network and firewall rules, not VM access control.

References:

? Nutanix Prism Central Projects and Role-Based Access Control (RBAC)

? Nutanix Bible Multi-Tenancy and Project-Based Access Control

? Nutanix KB Setting Up Role-Based Access Control (RBAC) for Prism Central

### NEW QUESTION 3

An administrator has been tasked with performing firmware upgrades for all Nutanix sites.

When attempting to perform firmware upgrades via Life Cycle Manager (LCM) at a remote site with a single-node cluster, no firmware updates are listed as available. The administrator confirmed that the currently installed firmware is several revisions behind.

Why are no firmware upgrades listed in LCM for this cluster?

- A. Single-node clusters only support one-disk firmware upgrades.
- B. LCM is not supported on single-node clusters.
- C. LCM cannot perform firmware upgrades on single-node clusters.
- D. LCM does not have connectivity to the internet.

**Answer: B**

#### Explanation:

LCM (Life Cycle Manager) does not support automatic firmware upgrades for single-node clusters because firmware updates require cluster-wide operations, which are not possible with only one node.

? Option B (LCM is not supported on single-node clusters) is correct:

? Option A (Single-node clusters only support one-disk firmware upgrades) is incorrect:

? Option C (LCM cannot perform firmware upgrades) is incorrect:

? Option D (LCM lacks internet connectivity) is incorrect:

References:

? Nutanix LCM Guide Firmware Upgrade Considerations for Single-Node Clusters

? Nutanix KB Why LCM Updates Are Not Available for Single-Node Deployments

### NEW QUESTION 4

Which predefined view in Prism Central's Intelligent Operations should be used to determine which VM is consuming excessive resources and causing performance issues for others?

- A. Inactive VMs List
- B. Overprovisioned VMs List
- C. Bully VMs List
- D. Constrained VMs List

**Answer: C**

#### Explanation:

The Bully VMs List (Option C) in Prism Central's Intelligent Operations identifies VMs consuming excessive CPU, memory, or storage, which negatively affects other

VMs.

? Option A (Inactive VMs List) is used for identifying unused VMs but does not detect performance issues.

? Option B (Overprovisioned VMs List) helps identify VMs with excessive allocated resources, but it does not focus on live performance impact.

? Option D (Constrained VMs List) highlights VMs suffering from resource contention, not those causing it.

References:

? Nutanix Prism Central Intelligent Operations and Performance Tuning

? Nutanix KB Identifying and Managing Resource-Hogging VMs

#### NEW QUESTION 5

An administrator wants to clean up inactive VMs using VM Efficiency in Nutanix. The business requires that VMs must be inactive for 120 days before deletion.

A Playbook was created to delete Dead and Zombie VMs with a 99-day wait period after they are marked inactive.

How long will have passed before these VMs are deleted? (Choose two.)

A. For Dead VMs, the wait before deletion is 120 days.

B. For Zombie VMs, the wait before deletion is 129 days.

C. For Dead VMs, the wait before deletion is 129 days.

D. For Zombie VMs, the wait before deletion is 120 days.

**Answer:** BC

#### Explanation:

Dead VMs and Zombie VMs are different classifications of inactive VMs in Nutanix, and their deletion timelines depend on Playbook configuration.

? Dead VMs Considered inactive after 30 days, then must wait 99 more days before deletion.

? Zombie VMs Considered inactive after 30 days, then must wait 99 more days before deletion.

References:

? Nutanix Prism Central Guide Using VM Efficiency to Manage Inactive VMs

? Nutanix KB Configuring Playbooks for Automatic VM Cleanup

#### NEW QUESTION 6

What guest customization options are available when creating a VM template?

A. Sysprep, Cloud-init, Custom Script, Guided Script

B. Bash, Powershell

C. Python, YAML

D. None, guest customization is not supported in Nutanix templates.

**Answer:** A

#### Explanation:

Guest customization options allow administrators to automate OS configuration during VM deployment from a template.

? Option A (Sysprep, Cloud-init, Custom Script, Guided Script) is correct:

? Options B and C are incorrect:

? Option D is incorrect:

References:

? Nutanix VM Deployment Guide Using Cloud-Init and Sysprep for Guest Customization

? Nutanix KB Automating VM Deployments with Guest Customization

#### NEW QUESTION 7

In an RF2 cluster, what is the minimum number of nodes required to allow a host removal?

A. 2

B. 3

C. 4

D. 5

**Answer:** B

#### Explanation:

Replication Factor (RF2) means that each piece of data is stored twice across different nodes to ensure availability.

? Option B (3 nodes) is correct:

? Option A (2 nodes) is incorrect:

? Option C (4 nodes) and Option D (5 nodes) are incorrect:

References:

? Nutanix Bible Replication Factor (RF) and Fault Tolerance

? Nutanix Prism Element Guide Managing Node Failures and Removals

#### NEW QUESTION 8

An administrator is preparing for a firmware upgrade on a host and wants to manually migrate VMs before executing the LCM upgrade. However, one VM is unable to migrate while others migrate successfully.

Which action would fix the issue?

A. Enable Acropolis Dynamic Scheduling (ADS) at the cluster level.

B. Update Link Layer Discovery Protocol (LLDP).

C. Disable Agent VM within the VM configuration options.

D. Configure backplane port groups that are assigned to the CVM.

**Answer:** C

#### Explanation:

If a VM is unable to migrate, the most likely cause is that it is an Agent VM (such as a Nutanix Witness VM or a VM with special dependencies).

- ? Option C (Disable Agent VM) is correct:
- ? Option A (Enable ADS) is incorrect:
- ? Option B (Update LLDP) is incorrect:
- ? Option D (Configure backplane port groups) is incorrect:

References:

- ? Nutanix Prism Element Guide Managing Agent VM Settings
- ? Nutanix Bible Host Maintenance and VM Live Migration
- ? Nutanix KB Troubleshooting VM Migration Failures in AHV

#### NEW QUESTION 9

What is required to create a category in Nutanix?

- A. A name and a value
- B. A policy and an entity
- C. A service and a scope
- D. A catalog and a template

**Answer: A**

#### Explanation:

Categories in Nutanix are used to group resources and require only a name and a value for definition.

- ? Option A (A name and a value) is correct:
- ? Option B (Policy and Entity) is incorrect:
- ? Option C (Service and Scope) is incorrect:
- ? Option D (Catalog and Template) is incorrect:

References:

- ? Nutanix Prism Central Guide Creating and Managing Categories
- ? Nutanix KB Using Categories for RBAC and VM Grouping

#### NEW QUESTION 10

After upgrading Prism Central from PC2022.1 to PC2024.1, an administrator is unable to log in with their IAM domain account. What is the first troubleshooting step the administrator should take?

- A. Ping the Domain Controller from the CVM.
- B. Ensure port 9441 is open in the firewall.
- C. Validate the trusted signing certificate of the organization.
- D. Log in with a local admin account.

**Answer: D**

#### Explanation:

After a Prism Central upgrade, IAM authentication settings may require reconfiguration.

- ? Option D (Log in with a local admin account) is correct:
- ? Option A (Ping the Domain Controller) is incorrect:
- ? Option B (Check firewall port 9441) is incorrect:
- ? Option C (Validate signing certificate) is incorrect:

References:

- ? Nutanix KB Troubleshooting IAM Login Issues After a Prism Central Upgrade
- ? Nutanix Documentation Managing User Authentication and IAM Integration

#### NEW QUESTION 10

Which feature deploys a temporary VM that allows an administrator to log in and apply OS patches to a VM template?

- A. Create VM from Template
- B. Complete Guest OS Update
- C. Update Configuration
- D. Update Guest OS

**Answer: D**

#### Explanation:

The Update Guest OS feature (Option D) in Nutanix allows administrators to apply patches and updates to a VM template by creating a temporary VM instance for modification.

? How It Works:

- ? Option A (Create VM from Template) is incorrect:
- ? Option B (Complete Guest OS Update) is incorrect:
- ? Option C (Update Configuration) is incorrect:

References:

- ? Nutanix Prism Central Managing VM Templates and Guest OS Updates
- ? Nutanix Bible OS Management and Updates in Nutanix Environments
- ? Nutanix KB How to Patch OS in a Nutanix VM Template

#### NEW QUESTION 14

An administrator wants to enable application discovery on a Nutanix cluster to monitor applications. A Prism Central instance is already configured with sufficient CPU and memory.

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

- A. Sufficient Prism Central VM resources

- B. Internet connection
- C. API key and key ID
- D. Network controller is enabled

**Answer:** AB

**Explanation:**

Application discovery in Prism Central requires sufficient Prism Central resources and an active internet connection to retrieve application signatures.

? Option A (Sufficient Prism Central VM resources) is correct:

? Option B (Internet connection) is correct:

? Option C (API key and key ID) is incorrect:

? Option D (Network controller enabled) is incorrect:

References:

? Nutanix Prism Central Guide Enabling and Using Application Discovery

? Nutanix KB Requirements for Application Discovery in Prism Central

**NEW QUESTION 17**

An administrator is responsible for resource planning and needs to plan for resiliency of a 10-node RF3 cluster. The cluster has 100TB of storage. How should the administrator plan for capacity in the event of future failures?

- A. Set Reserve Storage Capacity (%) to 20.
- B. Set Reserve Capacity for Failure to None.
- C. Set Reserve Capacity for Failure to Auto Detect.
- D. Set Reserve Memory Capacity (%) to 20.

**Answer:** C

**Explanation:**

RF3 (Replication Factor 3) clusters require sufficient reserved capacity to tolerate failures without data loss.

? Option C (Set Reserve Capacity for Failure to Auto Detect) is correct:

? Option A (Set Reserve Storage Capacity to 20%) is incorrect:

? Option B (Set Reserve Capacity for Failure to None) is incorrect:

? Option D (Set Reserve Memory Capacity to 20%) is incorrect:

References:

? Nutanix Bible Understanding Replication Factor (RF) and Failure Planning

? Nutanix Prism Element Guide Configuring Reserve Capacity for Cluster Resiliency

? Nutanix KB How to Plan Capacity for RF3 Clusters

**NEW QUESTION 19**

An administrator using a dark site deployment for LCM is attempting to upgrade to the latest BIOS. After completing an inventory scan, the administrator does not see the expected BIOS version available for upgrade. What is the most likely reason the latest BIOS is not shown?

- A. AOS needs to be upgraded first.
- B. The latest compatibility bundle has not been uploaded.
- C. The BMC version needs to be upgraded first.
- D. The dark site webserver is not accessible.

**Answer:** B

**Explanation:**

In a dark site deployment, LCM does not automatically fetch updates from the internet. The administrator must manually upload compatibility bundles.

? Option B (The latest compatibility bundle has not been uploaded) is correct:

? Option A is incorrect:

? Option C is incorrect:

? Option D is incorrect:

References:

? Nutanix LCM Guide Using Compatibility Bundles in Dark Sites

? Nutanix KB Troubleshooting Firmware Updates in Dark Site Deployments

**NEW QUESTION 21**

An administrator needs to configure NTP on Prism Central running on a Hyper-V cluster. How should the administrator complete this task?

- A. Add an external NTP server.
- B. Add the DNS server IP.
- C. Add a server with a DNS hostname.
- D. Add the IP of the Domain Controller.

**Answer:** A

**Explanation:**

Nutanix requires that all cluster components synchronize time using an external NTP (Network Time Protocol) server.

? Option A (Adding an external NTP server) is correct because Nutanix best practices recommend using an external time source to prevent clock drift between cluster nodes.

? Option B (DNS server IP) is incorrect: A DNS server does not provide NTP services.

? Option C (Server with DNS hostname) is incorrect unless the DNS hostname resolves to an NTP server.

? Option D (IP of the Domain Controller) is incorrect because not all domain controllers provide NTP services unless explicitly configured.

References:

? Nutanix Best Practices: NTP Configuration for Hyper-V Clusters

? Nutanix KB: Ensuring Proper Time Synchronization Across Cluster Nodes

? Nutanix Documentation:Prism Central NTP Settings Configuration

### NEW QUESTION 23

An administrator needs to create a storage container for VM disks. The container must meet the following conditions:

? 10 GiB of the total allocated space must not be used by other containers.

? The container must have a maximum storage capacity of 500 GiB.

What settings should the administrator configure while creating the storage container?

A. Set Advertised Capacity to 10 GiB and Reserved Capacity to 500 GiB.

B. Set Advertised Capacity to 10 GiB.

C. Set Reserved Capacity to 500 GiB.

D. Set Reserved Capacity to 10 GiB and Advertised Capacity to 500 GiB.

**Answer: D**

#### Explanation:

Nutanix storage containers allow administrators to configure capacity reservations and advertised limits for better resource management.

? Option D (Set Reserved Capacity to 10 GiB and Advertised Capacity to 500 GiB) is correct:

? Option A is incorrect:

? Option B is incorrect:

? Option C is incorrect:

References:

? Nutanix Storage Management Guide Understanding Storage Container Settings

? Nutanix KB Advertised vs. Reserved Capacity in Storage Containers

### NEW QUESTION 28

An administrator has been tasked with justifying why Nutanix Disaster Recovery was chosen for a multi-tier application spanning multiple business units.

What is the most efficient way to organize and manage the workloads?

A. Utilize a VM naming schema that allows sorting

B. Utilize Categories to organize VMs in Recovery Plans

C. Utilize a 1:10 ratio of Recovery Plan to VMs

D. Utilize RESTful APIs to script creation of Recovery Plans

**Answer: B**

#### Explanation:

Nutanix Categories allow administrators to group related VMs, making Disaster Recovery (DR) planning easier.

? Option B (Utilize Categories to organize VMs in Recovery Plans) is correct:

? Option A (Naming schema) is incorrect:

? Option C (1:10 Recovery Plan to VMs) is incorrect:

? Option D (RESTful APIs) is incorrect:

References:

? Nutanix Disaster Recovery Guide Using Categories for DR Management

? Nutanix KB Organizing VMs for Disaster Recovery Planning

### NEW QUESTION 33

An administrator receives an alert in Prism stating:

"Storage container <container\_name> on cluster <cluster\_name> will run out of storage resources in approximately 1 day."

However, the cluster has plenty of available space remaining.

What configuration setting is causing the container to run out of space while the cluster has space remaining?

A. Advertised Capacity is set too low.

B. Reserved Capacity is set too high.

C. Compression is set too low.

D. Replication Factor is set too high.

**Answer: B**

#### Explanation:

Reserved Capacity settings define how much storage is exclusively allocated for a specific container.

? Option B (Reserved Capacity is too high) is correct:

? Options A, C, and D are incorrect:

References:

? Nutanix Storage Best Practices Configuring Reserved and Advertised Capacity

? Nutanix KB Troubleshooting Storage Container Out-of-Space Alerts

### NEW QUESTION 37

Refer to Exhibit:

<input type="checkbox"/>	The cluster is using password based ssh access for the cvm	A6219	Info	false	false	Password-based remote login is enabled on the cluster. It is recommended to use key-based ssh access instead of password-based ssh access for better security.
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An administrator sees the alert shown in the exhibit.

What should the administrator do to ensure the nutanix user can no longer SSH to a CVM using a password?

- A. Rename the nutanix user.
- B. Block port 22 on the CVM firewall.
- C. Enable Cluster Lockdown.
- D. Delete the nutanix user.

**Answer: C**

**Explanation:**

Understanding the Exhibit & the Alert The alert states:

? "The cluster is using password-based SSH access for the CVM."

? "Password-based remote login is enabled on the cluster."

? "It is recommended to use key-based SSH access instead of password-based SSH access for better security."

This means that the nutanix user can log in to Controller VMs (CVMs) using a password, which is a security risk.

Corrective Action: Enabling Cluster Lockdown

(C) Enable Cluster Lockdown. (Correct Answer)

? Cluster Lockdown Mode restricts password-based SSH access and forces key-based authentication.

? This prevents users from logging into CVMs using passwords, enhancing cluster security.

? To enable Cluster Lockdown:

Evaluating the Other Answer Choices

(A) Rename the nutanix user. (Incorrect)

? The nutanix user is a built-in system account required for cluster operations.

? Renaming the user will not prevent SSH access via password.

(B) Block port 22 on the CVM firewall. (Incorrect)

? Blocking port 22 (SSH) will completely disable SSH access, including key-based authentication.

? This may break cluster management and troubleshooting operations.

(D) Delete the nutanix user. (Incorrect)

? The nutanix user is a critical system account required for cluster functionality.

? Deleting the account will cause serious issues with cluster management.

Multicloud Infrastructure References & Best Practices

? Nutanix Security Best Practices:

? Cluster Lockdown Benefits:

References:

? Nutanix Security Guide Enabling Cluster Lockdown for SSH Security

? Nutanix KB Securing SSH Access on Nutanix Clusters

**NEW QUESTION 39**

Which update in LCM can an administrator apply on a per-node basis?

- A. AOS
- B. BMC
- C. NCC
- D. AHV

**Answer: B**

**Explanation:**

BMC (Baseboard Management Controller) updates can be applied per-node in Nutanix LCM, unlike AOS or AHV, which require cluster-wide upgrades.

? Option B (BMC) is correct:

? Option A (AOS) is incorrect:

? Option C (NCC) is incorrect:

? Option D (AHV) is incorrect:

References:

? Nutanix LCM User Guide Per-Node Firmware Updates

? Nutanix KB How to Upgrade BMC Using LCM

**NEW QUESTION 44**

An administrator wants to disable password-based SSH access for the nutanix user on a CVM to improve security.

What action should the administrator take?

- A. Rename the nutanix user.
- B. Block port 22 on the CVM firewall.
- C. Enable Cluster Lockdown.
- D. Delete the nutanix user.

**Answer:** C

**Explanation:**

Enabling "Cluster Lockdown" in Nutanix is the best security measure to prevent password-based SSH logins.

? Option C (Enable Cluster Lockdown) is correct:

? Option A (Rename the nutanix user) is incorrect:

? Option B (Block port 22) is incorrect:

? Option D (Delete the nutanix user) is incorrect:

References:

? Nutanix Security Guide Implementing Cluster Lockdown

? Nutanix KB Best Practices for SSH Security on CVMs

**NEW QUESTION 48**

An administrator notices high CPU usage on a VM and wants to determine whether adding more vCPUs would improve performance.

Which two metrics should be analyzed to make this decision? (Choose two.)

A. VM CPU Ready Time

B. VM CPU Usage

C. Host CPU Usage

D. Host Memory Swap Out Rate

**Answer:** AB

**Explanation:**

When diagnosing CPU performance issues, CPU Ready Time and CPU Usage are the key indicators of whether more vCPUs are needed.

? Option A (VM CPU Ready Time) is correct:

? Option B (VM CPU Usage) is correct:

? Option C (Host CPU Usage) is incorrect:

? Option D (Host Memory Swap Out Rate) is incorrect:

References:

? Nutanix Prism Central Guide Analyzing VM CPU Performance

? Nutanix KB Understanding CPU Ready Time and VM Performance

**NEW QUESTION 51**

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. Ensure that the SQL data vDisks are thick provisioned.

B. Create additional vDisks for SQL data.

C. Use LVM to stripe the SQL data across multiple vDisks.

D. Ensure that the SQL data vDisks are thin provisioned.

**Answer:** BC

**Explanation:**

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

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

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

? Option A (Thick provisioned vDisks) is incorrect:

? Option D (Thin provisioned vDisks) is incorrect:

References:

? Nutanix Bible Optimizing SQL Performance on Nutanix

? Nutanix KB Best Practices for Running MySQL on Nutanix

**NEW QUESTION 53**

An administrator needs to perform an LCM upgrade on an AHV host with GPUs. What additional step is required before upgrading the host?

A. Create an agent VM on each host that has GPU drivers installed.

B. Run LCM in dark site mode so it can update AHV independently.

C. Use Direct Uploads to upload appropriate driver bundles.

D. Update NCC to the latest version and re-run Inventory.

**Answer:** C

**Explanation:**

Upgrading an AHV host with GPUs requires that the correct GPU drivers be manually uploaded to LCM, as GPU firmware is not updated automatically.

? Option C (Use Direct Uploads to upload appropriate driver bundles) is correct:

? Option A is incorrect:

? Option B is incorrect:

? Option D is incorrect:

References:

? Nutanix LCM Guide Manually Uploading GPU Firmware Bundles

? Nutanix KB Updating AHV Hosts with GPUs

**NEW QUESTION 54**

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

**Answer: C**

**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:

? Option A is incorrect:

? Option B is incorrect:

? Option D is incorrect:

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 59**

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