



## **Nutanix**

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

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

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### NEW QUESTION 1

An administrator configured a remote site for Protection Domain replication, but network performance and stability are impacted.

How can the remote site configuration be adjusted to fix the issue?

- A. Configure Network Address Translation (NAT) between the two Nutanix clusters.
- B. Configure the Protection Domain with many-to-many replication.
- C. Configure a Bandwidth Throttling Policy.
- D. Configure the remote Cluster VIP as a proxy.

**Answer: C**

#### Explanation:

Network performance issues during replication can be mitigated using Bandwidth Throttling to control traffic spikes.

? Option C (Configure a Bandwidth Throttling Policy) is correct:

? Option A (Configure NAT) is incorrect:

? Option B (Many-to-Many Replication) is incorrect:

? Option D (Remote Cluster VIP as Proxy) is incorrect:

References:

? Nutanix Protection Policies Guide Bandwidth Throttling for Remote Site Replication

? Nutanix KB Optimizing Network Performance for Disaster Recovery

### NEW QUESTION 2

After adding new workloads, the Overall Runway is now below 365 days, but this scenario still shows the cluster is in good shape. Why?

- A. Because Storage Runway is still good.
- B. Because new workloads are sustainable.
- C. Because there are recommended resources.
- D. Because the Target is 1 month.

**Answer: B**

#### Explanation:

A cluster runway below 365 days does not necessarily indicate an issue if Intelligent Operations determines that workloads are sustainable.

? Option B (Because new workloads are sustainable) is correct:

? Option A (Storage Runway is still good) is incorrect:

? Option C (Recommended resources) is incorrect:

? Option D (Target is 1 month) is incorrect:

References:

? Nutanix Prism Central Guide Capacity Planning & Runway Analysis

? Nutanix KB Understanding Capacity Runway and Workload Sustainability

### NEW QUESTION 3

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

**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:

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

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

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

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 4

In a scale-out Prism Central deployment, what additional functionality does configuring an FQDN instead of a Virtual IP provide?

- A. Load balancing
- B. Resiliency
- C. Segmentation
- D. SSL Certificate

**Answer: A**

#### Explanation:

In a scale-out Prism Central deployment, using an FQDN (Fully Qualified Domain Name) enables load balancing across multiple Prism Central instances.

? Option A (Load balancing) is correct:

? Option B (Resiliency) is incorrect:

? Option C (Segmentation) is incorrect:  
? Option D (SSL Certificate) is incorrect:

References:

? Nutanix Prism Central Guide Configuring Scale-Out Deployment  
? Nutanix KB How FQDN Enhances Load Balancing in Scale-Out Prism Central

#### NEW QUESTION 5

An administrator needs to optimize a VM's storage by leveraging compression features. The VM's vDisks are currently stored in a default storage container with no optimizations enabled.

How should the administrator proceed?

- A. Migrate vDisks to the Production storage container.
- B. Recreate the VM in the Production storage container and copy data.
- C. Migrate the VM to the Production storage container.
- D. Recreate the vDisk in the Production storage container and copy data.

**Answer:** A

#### Explanation:

Moving vDisks to a storage container with compression enabled ensures better data efficiency without downtime.

? Option A (Migrate vDisks) is correct:  
? Option B (Recreate the VM) is incorrect:  
? Option C (Migrate the VM) is incorrect:  
? Option D (Recreate vDisk) is incorrect:

References:

? Nutanix Storage Optimization Guide Enabling Compression on Existing vDisks  
? Nutanix KB Migrate vDisks Between Storage Containers for Optimization

#### NEW QUESTION 6

An administrator is trying to delete a protected snapshot but is unable to do so.

What is the most likely cause?

- A. There is an active recovery occurring at that time.
- B. Ransomware has encrypted the snapshot.
- C. There is an approval policy that was denied.
- D. The snapshot has been corrupted.

**Answer:** A

#### Explanation:

Snapshots that are part of an active recovery operation cannot be deleted until the process is completed or manually canceled.

? Option A (Active recovery in progress) is correct:  
? Option B (Ransomware encryption) is incorrect:  
? Option C (Approval policy denial) is incorrect:  
? Option D (Snapshot corruption) is incorrect:

References:

? Nutanix Protection Policies Snapshot Retention and Deletion  
? Nutanix Bible Backup & Disaster Recovery Mechanisms  
? Nutanix KB How to Delete a Snapshot Used in Recovery Plans

#### NEW QUESTION 7

An administrator needs to create a storage container named TestData with the following conditions:

? Replication Factor (RF) = 1 (RF1)  
? Inline Compression enabled  
? Deduplication disabled  
? Maximum storage capacity = 100 GiB

How should the administrator complete this task?

- A. Log into Prism Element and create the storage container with an Advertised Capacity of 100 GiB.
- B. Log into Prism Element and create the storage container.
- C. Log into Prism Central and create the storage container with a Reserved Capacity of 100 GiB.
- D. Log into Prism Central and create the storage container.

**Answer:** A

#### Explanation:

When creating a storage container in Nutanix, the administrator must configure the correct capacity settings:

? Option A (Prism Element with Advertised Capacity of 100 GiB) is correct:  
? Option B (Create in Prism Element without Advertised Capacity) is incorrect:  
? Option C (Create in Prism Central with Reserved Capacity) is incorrect:  
? Option D (Create in Prism Central without capacity limits) is incorrect:

References:

? Nutanix Storage Management Guide Creating and Managing Storage Containers  
? Nutanix Bible Replication Factor (RF) and Data Optimization  
? Nutanix KB Inline Compression Best Practices in Nutanix AOS

#### NEW QUESTION 8

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

**Answer: B**

**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:

? Option A (Same VLAN) is incorrect:

? Option C (Same subnet) is incorrect:

? Option D (Same VPC) is incorrect:

References:

? Nutanix AHV Networking Guide Configuring Port Mirroring in AHV

? Nutanix KB Port Mirroring Best Practices

**NEW QUESTION 9**

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 10**

An administrator is configuring Protection Policies to replicate VMs to a Nutanix Cloud Cluster (NC2) over the internet. To comply with security policies, how should data be protected during transmission?

- A. Configure Data on a self-encrypting drive.
- B. Configure VMs to use UEFI Secure Boot.
- C. Enable Data-at-Rest Encryption.
- D. Enable Data-in-Transit Encryption.

**Answer: D**

**Explanation:**

Data-in-Transit Encryption ensures that replication traffic is encrypted while being sent over the internet.

? Option D (Enable Data-in-Transit Encryption) is correct:

? Option A (Self-encrypting drive) is incorrect:

? Option B (UEFI Secure Boot) is incorrect:

? Option C (Data-at-Rest Encryption) is incorrect:

References:

? Nutanix Security Guide Configuring Data-in-Transit Encryption

? Nutanix KB Protecting Replication Traffic Over Public Networks

**NEW QUESTION 10**

An administrator receives complaints about VM performance.

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

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

**Answer: B**

**Explanation:**

CPU Ready Time indicates how long a VM waits for CPU resources due to contention.

? Option B (Review host CPU utilization) is correct:

? Option A (Check CVM vCPUs) is incorrect:

? Option C (Assess SSD capacity) is incorrect:

? Option D (Enable VM memory oversubscription) is incorrect:

References:

? Nutanix Prism Central Guide Troubleshooting VM Performance

? Nutanix KB Identifying High CPU Ready Time and Solutions

#### NEW QUESTION 11

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 15

An administrator wants to ensure that user VMs on AHV hosts can take advantage of bandwidth beyond a single adapter in a bond. Which uplink Bond Type should the administrator configure to accomplish this?

- A. No Uplink Bond
- B. Active-Active
- C. Active-Active with MAC pinning
- D. Active-Backup

**Answer:** B

#### Explanation:

Active-Active bonding allows multiple network interfaces to be used simultaneously, improving bandwidth and redundancy.

? Option B (Active-Active) is correct:

? Option A (No Uplink Bond) is incorrect:

? Option C (Active-Active with MAC pinning) is incorrect:

? Option D (Active-Backup) is incorrect:

References:

? Nutanix AHV Networking Guide Bonding Modes and Load Balancing

? Nutanix KB Optimizing Network Throughput in AHV

#### NEW QUESTION 18

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. Enable Balance-TCP on bridge (br0).
- C. Increase Controller VM (CVM) resources.
- D. Increase the VM's number of vCPUs.

**Answer:** D

#### 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:

? Option A is incorrect:

? Option B is incorrect:

? Option C is incorrect:

References:

? Nutanix AHV Performance Tuning Guide

? Nutanix KB Optimizing Windows VM Performance on AHV

#### NEW QUESTION 21

Refer to Exhibit:



An administrator is looking at the memory cluster runway diagrams shown in exhibit, in Prism Central. The environment has three hosts with the following configuration:

- ? CPU: 2x Intel Xeon Gold (8 cores, 2.6 GHz)
- ? RAM: 256 GB per host
- ? Storage: SSDs and HDDs

The Intelligent Operations feature has been active for one month, but no further configurations were applied. What does the dotted red line mean?

- A. It is the default trend analysis static threshold that can be manually set.
- B. It is the maximum memory the administrator can assign to VMs.
- C. It is the calculated memory oversubscription limit for currently running VMs.
- D. It is the usable capacity based on cluster configuration options.

**Answer: D**

**Explanation:**

The Prism Central Memory Cluster Runway Diagram provides insights into memory usage trends, predicting how long the cluster can sustain workloads before exhausting resources.

- ? The solid blue area represents the actual memory consumption over time.
- ? The dotted red line represents the effective memory capacity limit based on the cluster's current configuration.

**Analyzing the Dotted Red Line**

The dotted red line is labeled "Effective Capacity: 503.22 GiB", which means:

- ? It is the total usable memory capacity in the cluster after considering hypervisor overhead, redundancy settings, and failover capacity.
- ? This value is not a hard limit but an indication of the available memory before potential performance issues occur.

**Evaluating the Answer Choices**

(A) It is the default trend analysis static threshold that can be manually set. (Incorrect)

? The dotted red line is not a static threshold that an administrator can manually configure.

? Trend analysis in Prism is dynamic and based on workload history and projections.

(B) It is the maximum memory the administrator can assign to VMs. (Incorrect)

? Administrators can oversubscribe memory beyond the dotted red line if memory overcommitment is enabled.

? However, oversubscribing memory beyond effective capacity may impact performance.

(C) It is the calculated memory oversubscription limit for currently running VMs. (Incorrect)

? The dotted red line does not represent oversubscription limits.

? Memory oversubscription depends on hypervisor memory ballooning, compression, and swapping mechanisms, which are not directly shown here.

(D) It is the usable capacity based on cluster configuration options. (Correct Answer)

? The dotted red line (503.22 GiB) represents the actual usable memory available in the cluster after factoring in system overhead.

? This value is determined by:

**Multicloud Infrastructure References & Best Practices**

? Prism Central's "Runway" feature provides AI-driven trend analysis for memory, CPU, and storage capacity.

? The effective capacity limit helps administrators make proactive scaling decisions before resources become critical.

? To increase the memory runway, administrators can:

**NEW QUESTION 22**

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 25**

Due to application requirements, an administrator needs to support a multicast configuration in an AHV cluster.

Which AHV feature can be used to optimize network traffic so that multicast traffic is only forwarded to the VMs that need to receive it?

- A. LACP
- B. UDP
- C. IGMP Snooping
- D. Network Segmentation

**Answer: C**

**Explanation:**

Multicast traffic can generate unnecessary overhead if it is not properly managed. IGMP Snooping (Option C) ensures that multicast packets are only sent to VMs that have requested them, rather than broadcasting to all VMs.

? Option C (IGMP Snooping) is correct:

? Option A (LACP) is incorrect:

? Option B (UDP) is incorrect:

? Option D (Network Segmentation) is incorrect:

References:

? Nutanix AHV Networking Guide Enabling IGMP Snooping

? Nutanix Bible Network Traffic Optimization in AHV

? Nutanix KB Best Practices for Multicast Traffic in AHV

**NEW QUESTION 26**

Which storage attributes do Storage Policies manage?

- A. Storage Containers and Volume Groups
- B. Replication Factor and Encryption
- C. Shares and Object Stores
- D. Data Protection and Security

**Answer: B**

**Explanation:**

Storage Policies in Nutanix allow administrators to configure data protection and performance settings at the storage container level.

? Replication Factor (RF) defines the number of copies of data stored across nodes for fault tolerance.

? Encryption ensures that data at rest is protected via Nutanix-native encryption methods.

? Option A (Storage Containers and Volume Groups) refers to storage organization, not policies.

? Option C (Shares and Object Stores) applies to file and object storage services, not VM storage policies.

? Option D (Data Protection and Security) is a broad term but does not define specific policy attributes.

References:

? Nutanix Prism Element Storage Policies and Replication Factor (RF)

? Nutanix Bible Storage Fabric and Data Resiliency

? Nutanix KB Enabling Encryption in Storage Policies

**NEW QUESTION 28**

Refer to the Exhibit:

Host 1 (128 GB)			
VMs	VM Memory (GB)	Utilized Memory (GB)	Unutilized Memory (GB)
VM1	64 GB	48 GB	16 GB
VM2	32 GB	20 GB	12 GB
VM3	32 GB	24 GB	8 GB
Total	128 GB	92 GB	36 GB

An administrator needs to create two virtual machines: VM4 and VM5 that leverage the memory over-commit feature.

Once VM4 is created and running, the administrator notices that it uses only 28GB of RAM. What will be the maximum RAM that can be allocated to VM5 so that it can be powered on?

- A. 4GB

- B. 8GB
- C. 16GB
- D. 32GB

**Answer:** B

**Explanation:**

Understanding the Exhibit & Memory Allocation

? The host has 128GB of physical RAM.

? The current memory allocation across three VMs (VM1, VM2, VM3) is 128GB, but only 92GB is actually utilized.

? This means there is 36GB of unutilized memory available for allocation.

Step-by-Step Breakdown

? Existing Memory Usage Before Adding VM4

? After Creating and Running VM4

? Maximum Memory Allocation for VM5

Evaluating the Answer Choices

? (A) 4GB (Incorrect)

? (B) 8GB (Correct)

? (C) 16GB (Incorrect)

? (D) 32GB (Incorrect)

Key Concept: Nutanix Memory Overcommit

? Nutanix AHV supports memory overcommit, meaning VMs can be allocated more memory than physically available using memory ballooning and swapping.

? However, to power on VM5 without impacting performance, it must fit within the available unutilized memory, which is 36GB.

**NEW QUESTION 33**

Refer to Exhibit:

Cluster Details



Virtual IP / FQDN is used to access the PC VM Cluster.

Cluster Name

Unnamed

FQDN

Virtual IP

In a scale-out Prism Central deployment, what additional functionality does configuring an FQDN instead of a Virtual IP provide?

- A. Load balancing
- B. Resiliency
- C. Segmentation
- D. SSL Certificate

**Answer:** A

**Explanation:**

When using FQDN instead of a Virtual IP in a scale-out Prism Central deployment, Nutanix enables load balancing across multiple Prism Central instances.

? Option A (Load balancing) is correct because it ensures that requests are distributed among multiple Prism Central nodes, improving performance and redundancy.

? Option B (Resiliency) is incorrect because resiliency is achieved through HA and replication, not through FQDN configuration.

? Option C (Segmentation) is incorrect because network segmentation is handled at the VLAN or security policy level.

? Option D (SSL Certificate) is incorrect because SSL certificates can be applied regardless of whether FQDN or Virtual IP is used.

References:

? Nutanix Prism Central Deployment Guide

? Nutanix Best Practices for Scale-Out Prism Central

? Nutanix Support KB: Configuring FQDN for Prism Central

#### NEW QUESTION 37

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

**Answer: D**

#### 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:

? Option A (Configure NearSync) is incorrect:

? Option B (16 to 59 minutes) is incorrect:

? Option C (Async replication) is incorrect:

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 42

A Disaster Recovery administrator has set up a Protection Policy for 50 workloads, all configured similarly.

The RPO is 60 minutes with a specified retention of 10 local copies, 5 remote copies, and crash consistency.

After activation, recovery points are not appearing at the DR site, even though they are visible on the production side. What is the most likely issue?

- A. Nutanix Guest Tools (NGT) is not installed on the source VMs.
- B. Windows updates need to be applied to all affected VMs.
- C. The storage container name on the DR cluster does not match the production cluster.
- D. The storage container RF factor does not match in both clusters.

**Answer: C**

#### Explanation:

For Disaster Recovery to function correctly, the source and destination storage containers must have identical names.

? Option C (Storage container name mismatch) is correct:

? Option A (NGT not installed) is incorrect:

? Option B (Windows updates) is incorrect:

? Option D (Storage RF factor mismatch) is incorrect:

References:

? Nutanix Disaster Recovery Guide Requirements for Remote Replication

? Nutanix KB Storage Container Mapping for Protection Domains

#### NEW QUESTION 44

An administrator is managing a 4-node cluster with different hardware generations:

? Two G5 Nodes 2 CPUs (12 cores), 1 SSD (1.92 TB), 2 HDDs (4 TB).

? Two G7 Nodes 2 CPUs (16 cores), 2 SSDs (1.92 TB), 4 HDDs (4 TB).

The cluster will be decommissioned from production and used for Disaster Recovery (DR) purposes with an RPO of 1 hour.

What is the best approach when replacing G5 nodes without impacting performance?

- A. New node must have at least 2 SSDs.
- B. New node must be G7 or G8.
- C. New node must have 2 CPUs with 12 cores.
- D. New node must be hybrid.

**Answer: A**

#### Explanation:

For optimal Disaster Recovery performance, new nodes must match or exceed the storage performance of existing nodes.

? Option A (New node must have at least 2 SSDs) is correct:

? Option B is incorrect:

? Option C is incorrect:

? Option D is incorrect:

References:

? Nutanix Hardware Guide Choosing Nodes for Hybrid and DR Clusters

? Nutanix KB Balancing Storage Across Different Hardware Generations

#### NEW QUESTION 49

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