

Nutanix

Exam Questions NCP-MCI-6.10

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



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

Which two entities can be categorized? (Choose two.)

- A. Storage Containers
- B. Alerts
- C. Virtual Machines
- D. ISO Images

Answer: BC

Explanation:

In Nutanix Prism Central, categories allow administrators to group and organize entities for management, automation, and policy enforcement.

? Alerts (Option B) can be categorized to group similar system events and create filtering rules.

? Virtual Machines (Option C) can be categorized to apply security policies, automation tasks, and resource allocation rules.

? Option A (Storage Containers) cannot be categorized in Prism Central. Storage policies apply at the container level but are not managed via categories.

? Option D (ISO Images) cannot be categorized because ISOs are static objects, not active entities.

References:

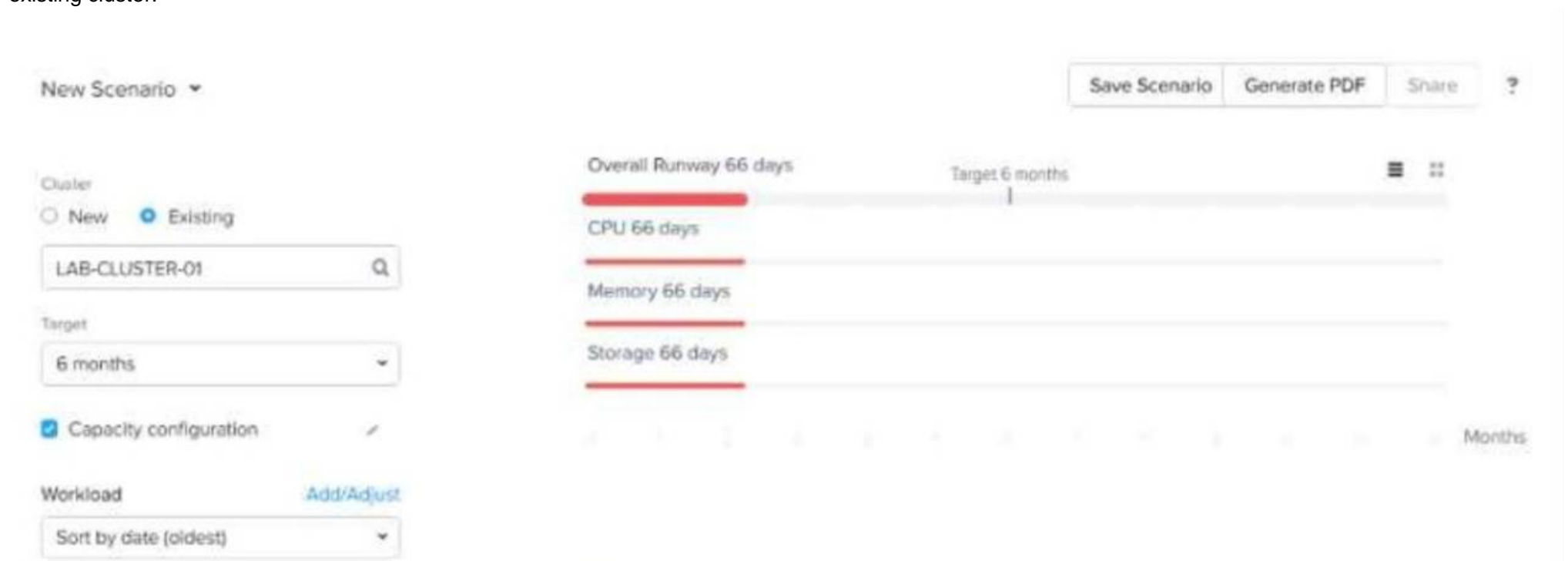
? Nutanix Prism Central Guide Working with Categories

? Nutanix Bible Category-Based Management and Security Policies

? Nutanix KB Using Categories for VM Management in Prism Central

NEW QUESTION 3

The customer expects to maintain a cluster runway of 9 months. The customer doesn't have a budget for 6 months but they want to add new workloads to the existing cluster.



Based on the exhibit, what is required to meet the customer's budgetary timeframe?

- A. Add resources to the cluster.
- B. Postpone the start of new workloads.
- C. Delete workloads running on the cluster.
- D. Change the target to 9 months.

Answer: A

Explanation:

The exhibit shows that the overall runway is only 66 days, meaning that the current cluster does not have enough capacity to sustain workloads for 6 months, let

alone 9 months.

? The best solution is to add resources to the cluster (Option A), such as CPU, memory, or storage, to extend the runway.

? Postponing new workloads (Option B) may help in the short term but does not align with the business need to continue adding workloads.

? Deleting workloads (Option C) is not a viable option because the customer wants to add more, not remove them.

? Changing the target to 9 months (Option D) does not change the actual resource constraints; it only alters the target timeframe.

References:

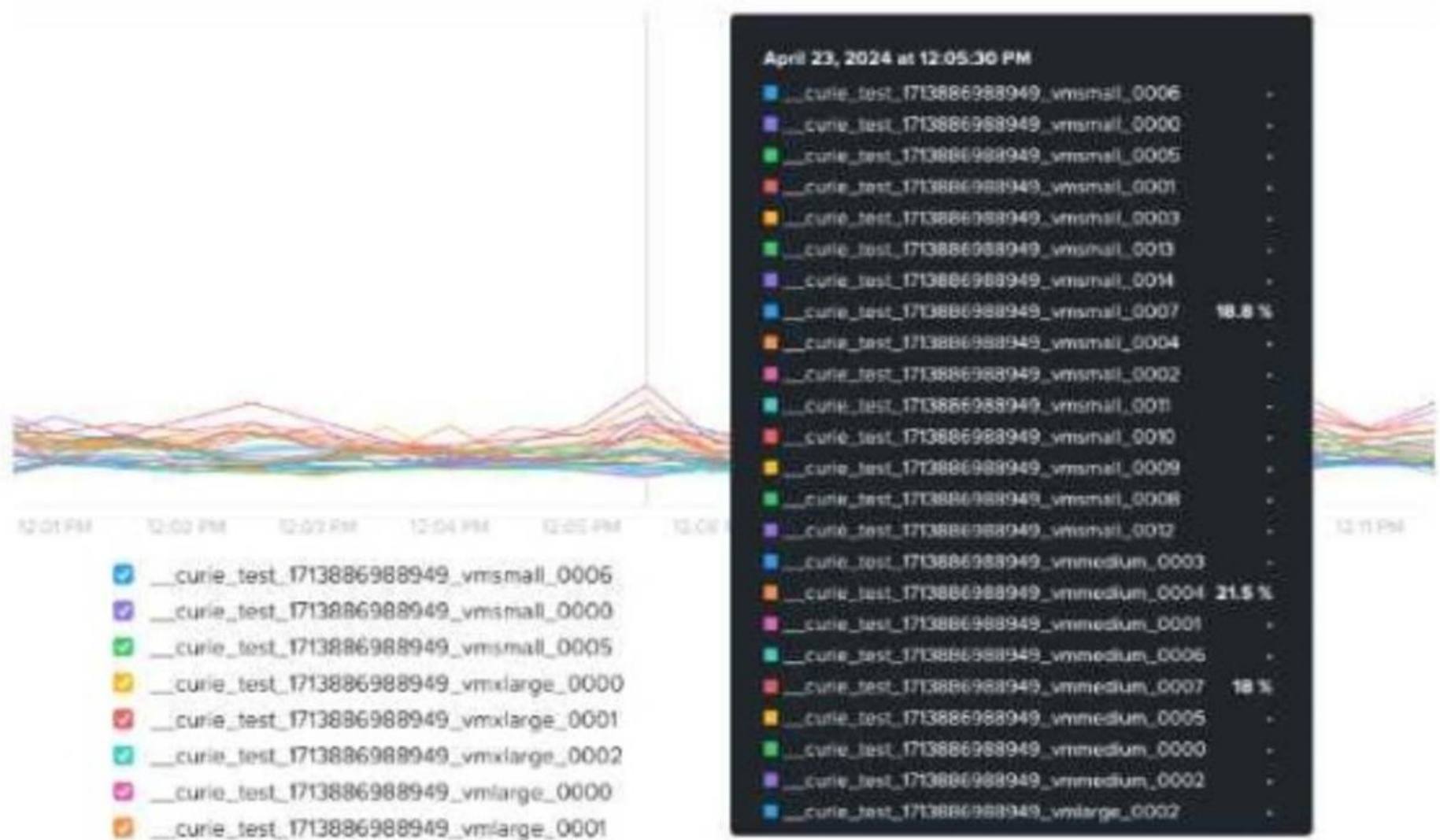
? Nutanix Prism Central Capacity Planning and Runway Analysis

? Nutanix Bible Cluster Resource Management and Scaling

? Nutanix Support KB How to Extend Cluster Runway with Resource Scaling

NEW QUESTION 4

An administrator receives complaints about VM performance.



After reviewing the VM's CPU Ready Time data shown in the exhibit, 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:

Understanding the Issue

The administrator is investigating VM performance complaints and is analyzing CPU Ready Time data.

? CPU Ready Time is a crucial metric in Nutanix and virtualization environments

(AHV, ESXi, or Hyper-V).

? It measures the amount of time a VM is waiting for CPU scheduling due to resource contention.

? High CPU Ready Time indicates that VMs are ready to run but are waiting because the host lacks available CPU resources.

Analysis of the Exhibit

? The graph shows CPU Ready Time spikes for multiple VMs.

? Some VMs have CPU Ready Time exceeding 18% to 21.5%, which is very high.

? A healthy CPU Ready Time should be below 5%.

? Values above 10% indicate CPU contention, and anything above 20% is critical and requires immediate troubleshooting.

Evaluating the Answer Choices

(A) Check the number of vCPUs assigned to each CVM. (Incorrect)

? CVMs (Controller VMs) have fixed CPU allocation, and modifying their vCPU count is not recommended unless advised by Nutanix Support.

? The issue is related to VM CPU contention, not CVM configuration.

(B) Review host CPU utilization. (Correct Answer)

? High CPU Ready Time suggests CPU overcommitment or host saturation.

? The administrator should check host CPU usage in Prism Central to determine if the cluster is overloaded.

? If host CPU usage is consistently above 85–90%, VMs are competing for CPU resources, leading to high CPU Ready Time.

(C) Assess cluster SSD capacity. (Incorrect)

? SSD capacity impacts storage performance (latency, read/write speeds) but does not affect CPU Ready Time.

? High CPU Ready Time is a CPU scheduling issue, not a storage bottleneck.

(D) Enable VM memory oversubscription. (Incorrect)

? Memory oversubscription does not impact CPU scheduling.

? Enabling memory oversubscription affects RAM allocation, but CPU Ready Time is strictly related to CPU contention.

Next Steps to Diagnose & Resolve the Issue

? Review Host CPU Utilization:
? Check VM vCPU Allocation:
? Balance Workload Across Hosts:
? Consider Scaling Out the Cluster:
Multicloud Infrastructure References & Best Practices
? CPU Ready Time Best Practices:
? Nutanix AHV CPU Scheduling Optimization:

References:

? Nutanix Prism Central: Performance Analysis and CPU Metrics
? Nutanix Bible: VM Performance and Resource Management
? Nutanix KB: Troubleshooting High CPU Ready Time in AHV

NEW QUESTION 5

An administrator needs to modify an AHV VM to support a large number of concurrent network connections. The VM has:

? 4 vCPUs
? 20 GB RAM
? OS: Microsoft Windows Server 2022

Which modification can improve network performance for network I/O-intensive applications?

A. Add more vCPUs.
B. Enable AHV Turbo Technology.
C. Enable RSS VirtIO-Net Multi-Queue.
D. Add more RAM.

Answer: C

Explanation:

Receive Side Scaling (RSS) VirtIO-Net Multi-Queue improves network performance by distributing network processing across multiple CPU cores.

? Option C (Enable RSS VirtIO-Net Multi-Queue) is correct:

? Option A (Add more vCPUs) is incorrect:

? Option B (Enable AHV Turbo Technology) is incorrect:

? Option D (Add more RAM) is incorrect:

References:

? Nutanix AHV Best Practices Guide Optimizing Network Performance with RSS Multi-Queue
? Nutanix KB Enabling Multi-Queue for High-Performance Applications

NEW QUESTION 6

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 7

An administrator is protecting an application and its data stored on Volume Groups using Protection Domains.

During failover tests, all application VMs restore successfully, but the application data is completely missing.

How can the Protection Domain configuration be adjusted to avoid this issue in the future? (Choose two.)

A. Select the "Auto protect related entities" checkbox.
B. Manually add Volume Groups to Protected Entities.
C. Place Volume Groups in a separate Protection Domain.
D. Use application-consistent snapshots.

Answer: AB

Explanation:

Protection Domains (PDs) in Nutanix ensure that entire applications and their associated data are protected during failover. However, Volume Groups (VGs) are not automatically included unless explicitly configured.

? Option A (Select "Auto protect related entities") is correct:

? Option B (Manually add Volume Groups to Protected Entities) is correct:

? Option C (Place Volume Groups in a separate Protection Domain) is incorrect:

? Option D (Use application-consistent snapshots) is incorrect:

References:

? Nutanix Disaster Recovery GuideProtection Domain Configuration and Volume Groups

? Nutanix KBEnsuring Volume Groups Are Included in Disaster Recovery Failovers

NEW QUESTION 8

A company is evaluatingNutanix Disaster Recovery (DR)to protect multiplebusiness- critical applications. Some applications are built using a3-tier architectureand have interdependencies.

Afterfailover, the VM'sstatic IP address is retained, butDNS configuration is lost.

How should an administrator proceed to resolve this issue?

A. ConfigureSelf-Service Restore.

B. Createcustom in-guest scriptsto preserve the statically assigned DNS IP addresses.

C. InstallNetwork Manager command-line tool (nncli)in the protected Windows VMs.

D. Configure aProtection Domain.

Answer: B

Explanation:

Duringfailover in Nutanix Disaster Recovery, VMs retain theirstatic IPsbut maylose DNS settingsif the network configuration at the DR site is different from the primary site.

? Option B (Create custom in-guest scripts) is correct:

? Option A (Self-Service Restore) is incorrect:

? Option C (nncli tool) is incorrect:

? Option D (Configure a Protection Domain) is incorrect:

References:

? Nutanix Disaster Recovery Guide Failover Automation and Network Configuration

? Nutanix Bible VM Recovery and IP Management in DR Scenarios

? Nutanix KB Preserving DNS Settings in Disaster Recovery

NEW QUESTION 9

An administrator observes an alert in Prism for ahybrid SSD/HDD cluster: "Storage Pool SSD utilization consistently above 75%."

What is the potential impact of this condition?

A. The cluster is unable to sustain an SSD disk failure.

B. The cluster may be nearly out of storage for metadata.

C. The cluster is at risk of entering a read-only state.

D. Average I/O latency in the cluster may increase.

Answer: D

Explanation:

High SSD utilization in a hybrid cluster can lead to increased I/O latency as new writes may spill over to HDDs, reducing overall performance.

? Option D (Average I/O latency in the cluster may increase) is correct:

? Option A is incorrect:

? Option B is incorrect:

? Option C is incorrect:

References:

? Nutanix Storage Performance GuideSSD Tiering and Performance Management

? Nutanix KBManaging High SSD Utilization in Hybrid Clusters

NEW QUESTION 10

An administrator is configuringNutanix Disaster Recovery (DR)for across-hypervisor setup (ESXi to AHV)but finds thatguest VMs do not recover properly at the DR location.

What is required for a successful cross-hypervisor DR event?

A. Utilize delta disks.

B. Deploy Legacy BIOS boot on hosts within the cluster.

C. Use raw device mappings.

D. Nutanix Guest Tools (NGT) must be installed on source guest VMs.

Answer: D

Explanation:

For cross-hypervisor DR failover (e.g., ESXi to AHV), Nutanix Guest Tools (NGT) must be installed on VMs to ensure proper configuration and recovery.

? Option D (NGT must be installed on source guest VMs) is correct:

? Option A (Utilize delta disks) is incorrect:

? Option B (Deploy Legacy BIOS boot) is incorrect:

? Option C (Use raw device mappings) is incorrect:

References:

? Nutanix Disaster Recovery GuideCross-Hypervisor Failover Best Practices

? Nutanix KBEnsuring VM Compatibility During ESXi to AHV DR

NEW QUESTION 10

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

Which action would fix the issue?

- A. EnableAcropolis Dynamic Scheduling (ADS)at the cluster level.
- B. UpdateLink Layer Discovery Protocol (LLDP).
- C. DisableAgent VMwithin the VM configuration options.
- D. Configurebackplane port groupsthat are assigned to the CVM.

Answer: C

Explanation:

If aVM is unable to migrate, the most likely cause is that it is anAgent 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 15

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 16

After upgradingPrism Central from PC2022.1 to PC2024.1, an administrator isunable to log inwith theirIAM 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 18

An administrator wants toensure that user VMs on AHV hostscan 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 22

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 23

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 28

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 29

Refer to Exhibit:



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 31

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 33

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 35

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 36

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. Metric Chart
- B. Entity Chart
- C. Hypervisor Performance Chart
- D. VM Summary Chart

Answer: B

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:

? Option A (Metric Chart) is incorrect:

? Option C (Hypervisor Performance Chart) is incorrect:

? Option D (VM Summary Chart) is incorrect:

References:

? Nutanix Prism Central Guide Entity vs. Metric Charts for Performance Analysis

? Nutanix KB Creating Custom Charts in Prism Central

NEW QUESTION 39

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 40

An administrator is trying to configure Metro Availability between Nutanix ESXi-based clusters. However, the Compatible Remote Site screen does not list all

required storage containers.
Which two reasons could be a cause for this issue? (Choose two.)

- A. Source and destination hardware are from different vendors.
- B. The remote site storage container has compression enabled.
- C. The destination storage container is not empty.
- D. Both storage containers must have the same name.

Answer: CD

Explanation:

ForMetro Availability to work properly, the storage containers at both the primary and secondary sites must meet certain requirements:
? The storage containers must have the same name(Option D). This ensures that replication and failover work seamlessly. If the names do not match, the storage containers will not be listed as compatible.
? The destination storage container must be empty(Option C). Metro Availability requires a clean storage container at the secondary site to receive data. If the container already contains data, it cannot be used.
? Option A is incorrect: Different vendor hardware does not affect Metro Availability compatibility.
? Option B is incorrect: Compression does not affect Metro Availability compatibility.
However, it is recommended to keep compression settings aligned between sites.
References:
? Nutanix Documentation: Metro Availability Deployment Guide
? Nutanix Best Practices for Metro Availability
? Nutanix KB 2093: Troubleshooting Metro Availability Storage Container Issues

NEW QUESTION 42

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
? Thehost has 128GB of physical RAM.
? Thecurrent memory allocationacrossthree VMs (VM1, VM2, VM3) is 128GB, but only92GB is actually utilized.
? This means there is36GB 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 supportsmemory overcommit, meaning VMs can be allocated more memory than physically available usingmemory ballooning and swapping.
? However,to power on VM5 without impacting performance, it must fit within the available unutilized memory, which is8GB.

NEW QUESTION 45

An administrator is managing a4-node clusterwithdifferent 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 bedecommissioned from productionand used forDisaster Recovery (DR) purposeswithan 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 GuideChoosing Nodes for Hybrid and DR Clusters

? Nutanix KBBalancing Storage Across Different Hardware Generations

NEW QUESTION 50

An administrator is trying to configure Metro Availability between Nutanix ESXi-based clusters. However, the Compatible Remote Sites screen does not list all required storage containers.

Protection Domain (Metro Availability)

?

X

Name

Storage Containers

Remote Sites

Failure Handling

Schedule

Review

Target Sites

Refresh

Compatible Remote Sites

Remote Site

IP Address

auto_cluster_prod_divya_sharma_1ac48b18ab2e

10.46.200.167-2020

Incompatible Remote Sites

Remote Site

IP Address

Metro Ready

Has

Storage

Container

Latency

Previous

Cancel

Next

Which two reasons could be a cause for this issue? (Choose two.)

- A. Source and destination hardware are from different vendors.
- B. The remote site storage container has compression enabled.
- C. The destination storage container is not empty.
- D. Both storage containers must have the same name.

Answer: CD

Explanation:

Metro Availability in Nutanix requires that the primary and secondary storage containers be configured identically to ensure data replication consistency.

? Option C (The destination storage container is not empty) is correct:

? Option D (Both storage containers must have the same name) is correct:

? Option A is incorrect: Metro Availability works regardless of hardware vendor differences.

? Option B is incorrect: Compression does not affect compatibility but may impact performance.

References:

? Nutanix Metro Availability Deployment Guide

? Nutanix Best Practices for Configuring Remote Sites for Metro Availability

? Nutanix KB Troubleshooting Storage Container Issues in Metro Availability

NEW QUESTION 53

When expanding a cluster, what is required to automatically discover new nodes?

- A. New nodes must have the same hypervisor version.

- B. IPv6 multicast must be allowed on physical switches.
- C. New nodes must have the same AOS version.
- D. IPv4 multicast must be allowed on physical switches.

Answer: D

Explanation:

Nutanix uses IPv4 multicast for automatic node discovery and cluster expansion.

? Option D (IPv4 multicast must be allowed) is correct:

? Option A (Hypervisor version must match) is incorrect:

? Option B (IPv6 multicast) is incorrect:

? Option C (AOS version must match) is incorrect:

References:

? Nutanix Best Practices Cluster Expansion & Auto-Discovery

? Nutanix KB Why Nutanix Requires IPv4 Multicast for Node Discovery

NEW QUESTION 55

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: `nccli pd list metro-avail=true | egrep "Protection Domain Stretch Role" | grep "ACTIVE"`
- B. Use must-affinity rule 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 58

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