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Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q66-Q71):

NEW QUESTION # 66

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

Answer: A

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:
* Auto Detect dynamically calculates the necessary reserved space based on cluster size and RF settings.
* It ensures that enough storage remains available in case of a node failure.
* Option A (Set Reserve Storage Capacity to 20%) is incorrect:
* The required storage reservation depends on the number of nodes and RF level, not a fixed percentage.
* Option B (Set Reserve Capacity for Failure to None) is incorrect:
* Without reserved capacity, a node failure could lead to data unavailability.
* Option D (Set Reserve Memory Capacity to 20%) is incorrect:
* This setting applies to RAM, not storage resiliency.
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 # 67
Refer to Exhibit:

An administrator is looking at the memory cluster runway diagram as 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 calculated memory oversubscription limit for currently running VMs.
- B. It is the default trend analysis static threshold that can be manually set.

- C. It is the maximum memory the administrator can assign to VMs.
- D. It is the usable capacity based on cluster configuration options.

Answer: D

Explanation:
hePrism Central Memory Cluster Runway Diagramprovides insights into memory usage trends, predicting how long the cluster can sustain workloads before exhausting resources.
* Thesolid blue arearepresents theactual memory consumption over time.
* Thedotted red linerepresents theeffective memory capacity limitbased on the cluster's current configuration.
Analyzing the Dotted Red Line
Thedotted red line is labeled "Effective Capacity: 503.22 GiB", which means:
* It is the totalusable memory capacityin the cluster after consideringhypervisor overhead, redundancy settings, and failover capacity.
* This value isnot a hard limitbut an indication ofthe 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)
* Thedotted red line is not a static thresholdthat an administrator can manually configure.
* Trend analysis in Prism isdynamicand based on workload history and projections.
#(B) It is the maximum memory the administrator can assign to VMs.(Incorrect)
* Administrators canoversubscribememory beyond the dotted red line ifmemory overcommitment is enabled.
* However, oversubscribing memory beyondeffective capacitymay impact performance.
#(C) It is the calculated memory oversubscription limit for currently running VMs.(Incorrect)
* The dotted red linedoes not represent oversubscription limits.
* Memory oversubscription depends onhypervisor 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)
* Thedotted red line (503.22 GiB)represents theactual usable memory availablein the cluster after factoring in system overhead.
* This value is determined by:
* Total physical memory (256 GB per host × 3 hosts = 768 GB)
* Memory reserved for hypervisor and system processes
* Cluster failover and redundancy settings
* Intelligent Operations capacity analysis
Multicloud Infrastructure References & Best Practices
* Prism Central's "Runway" featureprovidesAI-driven trend analysisfor memory, CPU, and storage capacity.
* Theeffective capacity limithelps administrators makeproactive scaling decisionsbefore resources become critical.
* To increase thememory runway, administrators can:
* OptimizeVM memory allocation.
* Addmore hoststo the cluster.
* Enablememory deduplication and compression (if available).

NEW QUESTION # 68
A company is evaluating Nutanix DR to protect some business critical applications and tasked an administrator to find an optimal configuration providing highest resiliency and lowest RPO to the production environment.
The company's production environment is deployed on two physical sites with each hosting one AHV-based cluster.
What configuration will meet the company's requirements?

- A. Deploy one Prism Central instance on each site and configure synchronous replication using Protection Policy.
- B. Deploy Prism Central instance on one of the sites, configure Prism Central Disaster Recovery, and setup Metro AHV
- C. Deploy Prism Central instance on each site. Configure Metro Availability using Protection Domains.
- D. Deploy Prism Central instance on one of the sites. Configure NearSync replication using Protection Domains.

Answer: D

NEW QUESTION # 69
Refer to Exhibit:

☐	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.

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

Answer: A

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:
* Go to Prism Central or Prism Element.
* Navigate to Settings # Security # Cluster Lockdown.
* Enable Cluster Lockdown Mode.
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:
* Always use key-based SSH authentication instead of password-based logins.
* Enable Cluster Lockdown Mode to enforce security policies.
* Regularly audit user access to ensure security compliance.
* Cluster Lockdown Benefits:
* Prevents unauthorized SSH access via passwords.
* Enforces public key authentication, reducing brute-force attack risks.
* Strengthens CVM security against potential exploits.
References:
Nutanix Security Guide #Enabling Cluster Lockdown for SSH Security
Nutanix KB #Securing SSH Access on Nutanix Clusters

NEW QUESTION # 70
An administrator migrated a physical MySQL database from a legacy 3-tier environment to a Nutanix cluster.

After migration, the administrator finds that atpeak 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 theSQL data vDisks are thin provisioned.
- B. UseLVM to stripe the SQL data across multiple vDisks.
- C. Createadditional vDisks for SQL data.
- D. Ensure that theSQL data vDisks are thick provisioned.

Answer: B,C

Explanation:
For high-performance databases like MySQL, optimizing storage access is critical.
* Option B (Create additional vDisks for SQL data) is correct:
* Multiple vDisks allowbetter parallelismin NutanixDSF (Distributed Storage Fabric), improving IOPS.
* Option C (Use LVM to stripe SQL data across multiple vDisks) is correct:
* Striping across multiple disksdistributes the load, reducing latency.
* Option A (Thick provisioned vDisks) is incorrect:
* Nutanixalways provisions vDisks thinly, and thick provisioningdoes not improve IOPS.
* Option D (Thin provisioned vDisks) is incorrect:
* All Nutanix vDisksare thin-provisioned by default.
References:
* Nutanix Bible #Optimizing SQL Performance on Nutanix
* Nutanix KB #Best Practices for Running MySQL on Nutanix

NEW QUESTION # 71

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