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Certs Exam Nutanix - NCP-MCI-6.10

Category Breakdown	
Category	Number of Questions
Cluster and Node Management	6
Life Cycle Management and Updates	1
Storage Concepts and Management	2
Virtual Machine Management	1
TOTAL	10

Question #1: [Cluster and Node Management]

An administrator needs to create 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:
 - Advertised Capacity is the logical limit for the container (i.e., how much space it reports as available).
 - Inline Compression can be enabled directly in Prism Element.
- Option B (Create in Prism Element without Advertised Capacity) is incorrect:
 - Without specifying Advertised Capacity, the container may consume unlimited storage.
- Option C (Create in Prism Central with Reserved Capacity) is incorrect.

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Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q19-Q24):

NEW QUESTION # 19

Use Prism Element for this question.

The Application team has a 3 tier application (App Server, Web Server, and Database Server) that is mission critical and requires as close to 0 RPO and RTO as possible with their current license level.

The organization has 2 clusters, with one cluster (Cluster 1) being production and the other cluster (Cluster 2) being remote/DR. Cluster 2 should be able to fail back to Cluster 1.

The connectivity between the two sites is >5ms and replication traffic should not use more than 10Mbps of bandwidth. The Application team requests a plan that includes the ability to go back 2 days locally, and 2 days remotely.

The team also requests that all 3 VMs be treated as a single group and backed up collectively in a snapshot.

The three VMs are:

- * Web-Prod
- * App-Prod
- * DB-Prod

Use Task3 as part of the name for any objects created for this task.

Note: VMs do NOT need to be powered on. You will need to use the 172.30.0.x IP addresses when configuring DR.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to configure Disaster Recovery from the Cluster 1 Prism Element interface.

1. Add Cluster 2 as a Remote Site

First, you must register Cluster 2 as a DR target for Cluster 1.

* From the Cluster 1 Prism Element dashboard, navigate to Data Protection from the main dropdown menu.

* Click the Remote Site tab.

* Click the + Remote Site button and select Physical Cluster.

* In the "Name" field, enter Cluster2_DR_Task3.

* In the "Address" field, enter the 172.30.0.x Virtual IP address of Cluster 2.

* Click Save. The clusters will exchange credentials and connect.

2. Throttle Replication Bandwidth

Next, apply the 10 Mbps bandwidth limit for traffic going to Cluster 2.

* On the same Remote Site tab, select the newly created Cluster2_DR_Task3.

* Click the Update button.

* In the dialog, set the Bandwidth Limit to 10 Mbps.

* Click Save.

3. Create the Protection Domain

A Protection Domain (PD) is the top-level object that will manage the VMs and replication schedules.

* In the Data Protection dashboard, click the Table tab.

* Click the + Protection Domain button and select Async DR.

* For the Name, enter App_PD_Task3.

* Click Create.

4. Protect VMs in a Consistency Group

Now you will add the three application VMs to the new Protection Domain as a single Consistency Group (CG).

* You will be taken to the dashboard for the new App_PD_Task3. In the Entities panel, click the Protect Entities button.

* In the "Protect Entities" dialog, search for and select the three VMs:

* Web-Prod

* App-Prod

* DB-Prod

* Click Next.

* Select Create new consistency group and name it App_CG_Task3.

* Click Protect.

5. Create the Replication Schedule

Finally, configure the schedule to meet the RPO and retention requirements.

- * In the App_PD_Task3 dashboard, click the Schedules tab.
- * Click the + New Schedule button.
- * Remote Site: Select Cluster2_DR_Task3.
- * RPO (Repeat every): Select NearSync. Set the RPO to 1 minute.
- * Note: This is the lowest possible RPO for an Async (>5ms latency) connection, fulfilling the "as close to 0" requirement.
- * Local Retention: Set to 2 Days.
- * Remote Retention: Set to 2 Days.
- * Ensure the "Store snapshots for 2-way replication" checkbox is enabled to allow failback from Cluster 2.
- * Click Create Schedule.

NEW QUESTION # 20

TASK 1

A newly created Windows VM "SQL02" is experiencing poor storage performance when compared to "SQL01" running within the same cluster, on the same storage container.

The cluster is in a healthy state.

Create a new session named Monitor SQL02 with meaningful metrics. Right click on the session page and click Select All then paste this into Notepad and save it as Task 1.txt on the desktop.

Also, save the analysis as a report named MonitorSQL02 and send the report as a PDF on a daily basis to perf_group@ACME.org. Reports should not be retained. If any new objects need to be created, use monitovm2 in the name. Finally, correct the issue within "SQL02".

Notes:

- * Do not power on the VMs.
- * While you will be creating a session, you will need to examine the VM configurations to determine the issue.
- * Do not delete the VM to resolve the issue, any other destructive change is acceptable.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to all three tasks, performed within the Nutanix Prism interface.

Task 1: Create Monitoring Session & Save Metrics

- * From the Prism Central dashboard, navigate to Operations > Analysis.
- * Click the + New Session button.
- * Name the session Monitor SQL02.
- * In the "Entities" search box, type SQL01 and select VM: SQL01.
- * In the "Entities" search box, type SQL02 and select VM: SQL02.
- * Click Add Charts > New Chart.
- * Title: Storage IOPS
- * Metric: Storage Controller IOPS
- * Click Add.
- * Click Add Charts > New Chart.
- * Title: Storage Latency
- * Metric: Storage Controller Latency
- * Click Add.
- * Click Add Charts > New Chart.
- * Title: Storage Bandwidth
- * Metric: Storage Controller Bandwidth
- * Click Add.
- * Click Save Session.
- * With the "Monitor SQL02" session open, right-click anywhere on the page and click Select All.
- * Right-click again and select Copy.
- * Open Notepad, paste the content, and save the file to the desktop as Task 1.txt.

(The content pasted into Task 1.txt would be the session's chart configurations, showing metrics for SQL01 and SQL02.)

Task 2: Create and Schedule the Report

- * While still in the "Monitor SQL02" analysis session, click the Save as Report button (it looks like a bookmark icon).
- * Name the report MonitorSQL02 and click Save.

- * Navigate to Operations > Reports.
- * Find the MonitorSQL02 report in the list. Select its checkbox.
- * Click the Actions dropdown and select Schedule.
- * Configure the schedule with the following settings:
- * Schedule Name: monitovm2_daily_report
- * Recurrence: Daily
- * Start Time: (Set to a time, e.g., 8:00 AM)
- * Repeat every: 1 day(s)
- * Retention Policy: Uncheck the "Retain a copy of the report" box. (This ensures reports are not retained).
- * Email Report: Check this box.
- * Format: PDF
- * Recipients: perf_group@ACME.org
- * Click Save.

Task 3: Identify and Correct the Performance Issue

This task is performed without powering on the VMs, indicating a configuration error.

Investigation

- * Navigate to VMs > Table view.
- * Click on the SQL01 (the good VM) and select the Configuration tab.
- * Expand the Disks section. Observe that the primary disk is attached to a SCSI bus (e.g., scsi.0). This is the high-performance standard.
- * Return to the VM list and click on SQL02 (the problem VM).
- * Expand the Disks section.

Root Cause

You discover that the primary disk for SQL02 is attached to an IDE bus. The IDE bus has significant performance limitations and is not suitable for a database server, causing the poor storage performance.

Correction

- * With the SQL02 VM selected, click the Update button.
- * In the "Update VM" dialog, scroll down to the Disks section.
- * Find the disk attached to the IDE bus. Click the Edit (pencil) icon for that disk.
- * Change the Bus Type dropdown from IDE to SCSI.
- * The Device Index will automatically populate (e.g., scsi.0).
- * Click Save in the "Update Disk" dialog.
- * (Note: A "VirtIO SCSI Controller" will be automatically added to the VM configuration if one was not already present.)
- * Click Save in the "Update VM" dialog.

The VM SQL02 is now configured to use the high-performance VirtIO-SCSI controller, which will resolve the storage performance discrepancy once the VM is powered on.

NEW QUESTION # 21

The DB team is requesting an SQL database instance and has requested it be configured for best performance.

This VM has been migrated from a 3 tier solution into Nutanix.

The database VM hosts 4 databases, each set to a 20 GB limit. Logs are expected to not grow beyond 20 GB and should be limited to within 25% to avoid runaway processes. Do not configure more storage than is needed.

The VM that has been migrated is identified as sql3532. Once the VM has been properly reconfigured, the DBA team will reconfigure the OS and database.

The VM should be configured as per KB-3532.

While this VM is being tested, make sure it is the first VM to power up in the event the node it is on goes down.

To maximize performance, ensure as much of the VM as possible will be kept on SSD drives.

Note: The VM does not need to be powered on. The VM should remain on the default container and should not be configured with a volume group. No network is required at this time.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to reconfigure the sql3532 virtual machine.

This task is performed from the Prism Element interface for the cluster the VM is on (e.g., Cluster 1).

1. Locate and Update the VM

- * From the Prism Element main dashboard, navigate to the VM view.
- * Find the VM named sql3532 in the VM table.

* Select the checkbox next to sql3532 and click the Update button.

2. Configure HA Priority and Flash Mode

In the "Update VM" dialog, configure the HA and SSD performance settings:

* HA Priority:

* Find the VM High Availability section.

* Select the High Priority radio button. This ensures it is one of the first VMs to power on during an HA event.

* Flash Mode (SSD Performance):

* Scroll down to the Flash Mode section.

* Check the box to Enable Flash Mode. This pins the VM's vDisks to the SSD tier, satisfying the requirement to keep as much of the VM as possible on SSDs, especially since it's on the default (hybrid) container.

3. Reconfigure Disks (per KB-3532)

While still in the "Update VM" dialog, scroll to the Disks section to add the new data and log disks. The key to "best performance" (KB-3532) is to place Data and Logs on separate vSCSI controllers.

* (The VM already has an OS disk, which we will assume is on scsi.0.)

* Add Data Disk:

* Click the + Add New Disk button.

* Storage Container: default (as required).

* Size: 80 GB (for the 4 x 20 GB databases).

* Bus Type: SCSI.

* Device Index: 1. (This creates a new vSCSI controller, scsi.1, for the data disk).

* Click Add.

* Add Log Disk:

* Click the + Add New Disk button.

* Storage Container: default (as required).

* Size: 20 GB.

* Bus Type: SCSI.

* Device Index: 2. (This creates a third vSCSI controller, scsi.2, for the log disk).

* Click Add.

4. Save Configuration

* After adding the disks and setting HA/Flash Mode, click the main Save button at the bottom of the "Update VM" dialog.

The VM is now configured with high availability, its storage is pinned to SSD, and its disk layout follows performance best practices by separating the OS, Data, and Log I/O paths onto three different controllers.

NEW QUESTION # 22

Task 11

Running NCC on a cluster prior to an upgrade results in the following output FAIL: CVM System Partition /home usage at 93% (greater than threshold, 90%) Identify the CVM with the issue, remove the file causing the storage bloat, and check the health again by running the individual disk usage health check only on the problematic CVM do not run NCC health check Note: Make sure only the individual health check is executed from the affected node

Answer:

Explanation:

See the Explanation for step by step solution.

Explanation:

To identify the CVM with the issue, remove the file causing the storage bloat, and check the health again, you can follow these steps:

Log in to Prism Central and click on Entities on the left menu.

Select Virtual Machines from the drop-down menu and find the NCC health check output file from the list.

You can use the date and time information to locate the file. The file name should be something like ncc- output-YYYY-MM-DD-HH-MM-SS.log.

Open the file and look for the line that says FAIL: CVM System Partition /home usage at 93% (greater than threshold, 90%). Note down the IP address of the CVM that has this issue. It should be something like X.X.X.

X.

Log in to the CVM using SSH or console with the username and password provided.

Run the command `du -sh /home/*` to see the disk usage of each file and directory under /home. Identify the file that is taking up most of the space. It could be a log file, a backup file, or a temporary file. Make sure it is not a system file or a configuration file that is needed by the CVM.

Run the command `rm -f /home/<filename>` to remove the file causing the storage bloat. Replace <filename> with the actual name of

the file.

Run the command `ncc health_checks hardware_checks disk_checks disk_usage_check --cvm_list=X.X.X.`

X to check the health again by running the individual disk usage health check only on the problematic CVM.

Replace X.X.X.X with the IP address of the CVM that you noted down earlier.

Verify that the output shows PASS: CVM System Partition /home usage at XX% (less than threshold, 90%).

This means that the issue has been resolved.

#access to CVM IP by Putty

`allssh df -h #look for the path /dev/sdb3 and select the IP of the CVM`

`ssh CVM_IP`

`ls`

`cd software_downloads`

`ls`

`cd nos`

`ls -l -h`

`rm files_name`

`df -h`

`ncc health_checks hardware_checks disk_checks disk_usage_check`

NEW QUESTION # 23

Task 14

An administrator has been asked to configure a storage for a distributed application which uses large data sets across multiple worker VMs.

The worker VMs must run on every node. Data resilience is provided at the application level and low cost per GB is a Key Requirement.

Configure the storage on the cluster to meet these requirements. Any new object created should include the phrase `Distributed_App` in the name.

Answer:

Explanation:

See the Explanation for step by step solution.

Explanation:

To configure the storage on the cluster for the distributed application, you can follow these steps:

Log in to Prism Element of cluster A using the credentials provided.

Go to Storage > Storage Pools and click on Create Storage Pool.

Enter a name for the new storage pool, such as `Distributed_App_Storage_Pool`, and select the disks to include in the pool. You can choose any combination of SSDs and HDDs, but for low cost per GB, you may prefer to use more HDDs than SSDs.

Click Save to create the storage pool.

Go to Storage > Containers and click on Create Container.

Enter a name for the new container, such as `Distributed_App_Container`, and select the storage pool that you just created, `Distributed_App_Storage_Pool`, as the source.

Under Advanced Settings, enable Erasure Coding and Compression to reduce the storage footprint of the data.

You can also disable Replication Factor since data resilience is provided at the application level. These settings will help you achieve low cost per GB for the container.

Click Save to create the container.

Go to Storage > Datastores and click on Create Datastore.

Enter a name for the new datastore, such as `Distributed_App_Datastore`, and select NFS as the datastore type.

Select the container that you just created, `Distributed_App_Container`, as the source.

Click Save to create the datastore.

The datastore will be automatically mounted on all nodes in the cluster. You can verify this by going to Storage > Datastores and clicking on `Distributed_App_Datastore`. You should see all nodes listed under Hosts.

You can now create or migrate your worker VMs to this datastore and run them on any node in the cluster.

The datastore will provide low cost per GB and high performance for your distributed application.

NEW QUESTION # 24

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