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NCM-MCI
Certification Exam

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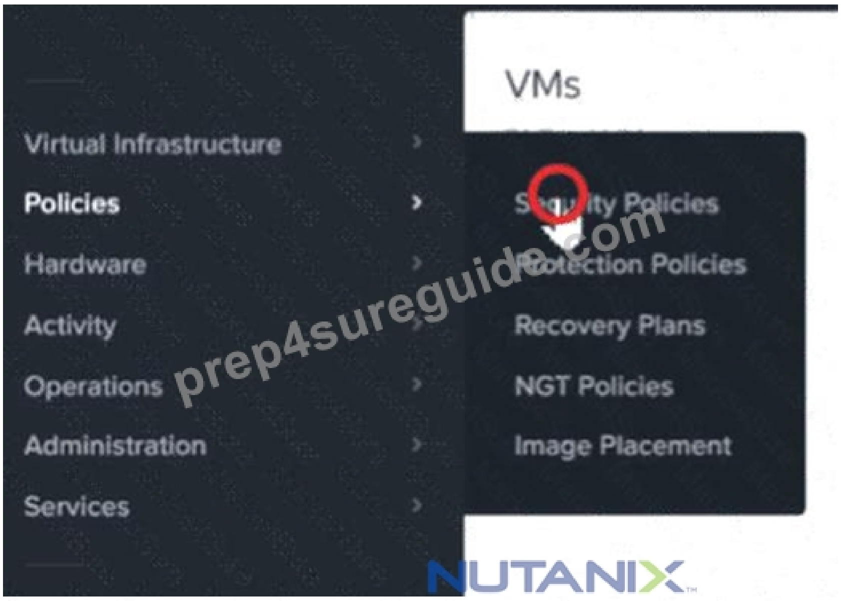
Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q26-Q31):

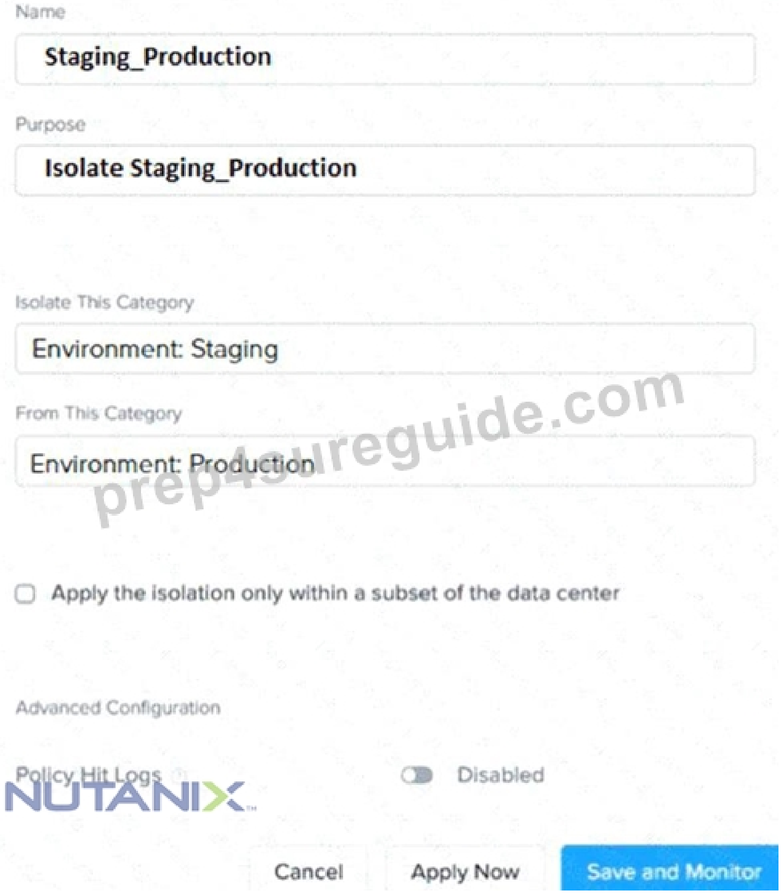
NEW QUESTION # 26
Task 8
An administrator has environment that will soon be upgraded to 6.5. In the meantime, they need to implement log and apply a security policy named Staging_Production, such that not VM in the Staging Environment can communicate with any VM in the production Environment, Configure the environment to satisfy this requirement.
Note: All other configurations not indicated must be left at their default values.

Answer:

Explanation:
See the Explanation for step by step solution.
Explanation:
To configure the environment to satisfy the requirement of implementing a security policy named Staging_Production, such that no VM in the Staging Environment can communicate with any VM in the production Environment, you need to do the following steps:
Log in to Prism Central and go to Network > Security Policies > Create Security Policy. Enter Staging_Production as the name of the security policy and select Cluster A as the cluster.

In the Scope section, select VMs as the entity type and add the VMs that belong to the Staging Environment and the Production Environment as the entities. You can use tags or categories to filter the VMs based on their environment.
In the Rules section, create a new rule with the following settings:
Direction: Bidirectional
Protocol: Any
Source: Staging Environment
Destination: Production Environment
Action: Deny
Save the security policy and apply it to the cluster.
This will create a security policy that will block any traffic between the VMs in the Staging Environment and the VMs in the Production Environment. You can verify that the security policy is working by trying to ping or access any VM in the Production Environment from any VM in the Staging Environment, or vice versa.
You should not be able to do so.




Name: Staging_Production

Purpose: Isolate Staging_Production

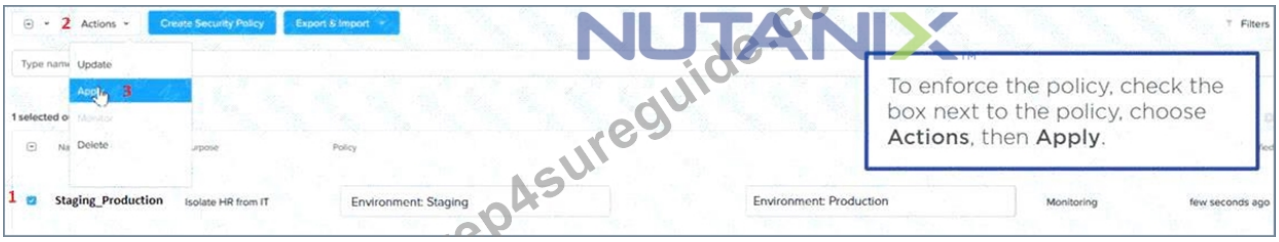
Isolate This Category: Environment: Staging

From This Category: Environment: Production

□ Apply the isolation only within a subset of the data center

Advanced Configuration

Policy Hit Logs: Disabled



Staging_Production | Isolate HR from IT | Environment: Staging | Environment: Production | Monitoring | few seconds ago

To enforce the policy, check the box next to the policy, choose **Actions**, then **Apply**.

NEW QUESTION # 27
An administrator wants to increase the performance of their Database virtual machine.
Database_VM has a database that is spread across three vDisks in the volume group Database_VM. The volume group is directly attached to the virtual machine. Previous performance analysis has indicated all storage requests are going to the same node. While this test environment has 1 node, the production environment has 3 nodes.
Configure the Volume Group Database_VM so that it's optimized for the user's VM and the production environment. The virtual machine has been powered off and moved to this test cluster for the maintenance work.
Note: Do not power on the VM.

Answer:

Explanation:
See the Explanation below for detailed answer.
Explanation:
Here is the step-by-step solution to configure the Volume Group for optimized performance in the production environment.
This task is performed in Prism Central.
* From the main dashboard, navigate to Compute & Storage > Volume Groups.
* Find the Volume Group named Database_VM in the list.
* Select the checkbox next to Database_VM.
* Click the Actions dropdown menu and select Update.
* In the "Update Volume Group" dialog, scroll to the bottom of the "Basic Configuration" section.
* Find the checkbox labeled Enable Client Side Load Balancing and check it.
Note: This setting allows the iSCSI initiator within the guest VM to connect to all CVMs in the cluster, distributing the storage load from the three vDisks across all three nodes in the production environment instead of focusing all I/O on just one.
Click Save.

NEW QUESTION # 28
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 # 29

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 fil 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 # 30

The security team has provided some new security requirements for cluster level security on Cluster 2.
Security requirements:
* Update the password for the root user on the Cluster 2 node to match the admin user password.
Note: The 192.168.x.x network is not available. To access a node use the host IP (172.30.0.x) from the CVM.
* Output the cluster-wide configuration of the SCMA policy to desktop\output.txt before changes are made.
* Enable the Advanced Intrusion Detection Environment (AIDE) to run on a weekly basis for the hypervisor and cvms for Cluster 2.
* Enable high-strength password policies for the hypervisor and cluster.
* Ensure CVMs require SSH keys for login instead of passwords. (SSH keys are located in the desktop\Files\SSH folder.) Ensure the cluster meets these requirements. Do not reboot any cluster components.
Note: Please ensure you are modifying the correct components.

Answer:

Explanation:
See the Explanation below for detailed answer.
Explanation:
Here is the step-by-step solution to apply the security requirements to Cluster 2.
1. Access Cluster 2 Prism Element
First, we must access the Prism Element (PE) interface for Cluster 2, as most security settings are cluster- specific.
* From the Prism Central dashboard, navigate to Hardware > Clusters.
* Find Cluster 2 in the list and click its name. This will open the Prism Element login page for that specific cluster in a new tab.
* Log in to Cluster 2's Prism Element using the admin credentials.
2. Requirement: Update Node Root Password
This task syncs the root password for all AHV hypervisor nodes with the cluster's admin user password.
* In the Cluster 2 PE interface, click the gear icon (Settings) in the top right corner.
* Select Cluster Lockdown from the left-hand menu.
* Click the Set Root Password on All Hosts button.
* A dialog box will appear. Enter the current admin password (the one you just used to log in) into both the New Password and Confirm New Password fields.
* Click Save. This will propagate the admin password to the root user on all nodes in Cluster 2.
3. Requirement: Add CVM SSH Key
This task adds the security team's public key to the admin user, which is required before we can disable password-based login.
* On the desktop, navigate to the Files > SSH folder.
* Open the id_rsa.pub file (or equivalent public key file) with Notepad.
* Copy the entire string of text (e.g., ssh-rsa AAAA...).

* In the Cluster 2 PE interface, go to Settings (gear icon) > User Management.
* Select the admin user and click Modify User.
* Paste the copied public key into the Public Keys text box.
* Click Save.

4. Requirement: Apply SCMA Policies (All other requirements)

The remaining requirements are all applied via the command line on a CVM using Nutanix's Security Configuration Management Automation (SCMA).

* Access the CVM:
* Find a CVM IP for Cluster 2 by going to Hardware > CVMs in the PE interface.
* Open an SSH client (like PuTTY) and connect to that CVM's IP address.
* Log in with the username admin and the corresponding password.
* Output Current Policy (Req 2):
* Before making changes, run the following command to see the current policy:

```
ncli scma status
```

* Copy the entire output from your SSH terminal.
* Open Notepad on the desktop, paste the copied text, and Save the file to the desktop as output.txt.
* Apply New Policies (Req 3, 4, 5):
* Run the following commands one by one. The cluster will apply them immediately without a reboot.
* Enable AIDE (Req 3):

```
ncli scma update aide-status=enabled aide-schedule=weekly
```

* Enable High-Strength Passwords (Req 4):

```
ncli scma update password-policy=high
```

* Require SSH Keys for CVMs (Req 5):

```
ncli scma update ssh-login=keys-only
```

Verification

You can verify all changes by running the status command again. The output should now reflect the new, hardened security posture.

```
ncli scma status
```

* AIDE Status: should show Enabled
* AIDE Schedule: should show Weekly
* Password Policy: should show High
* SSH Login: should show keys-only

NEW QUESTION # 31

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