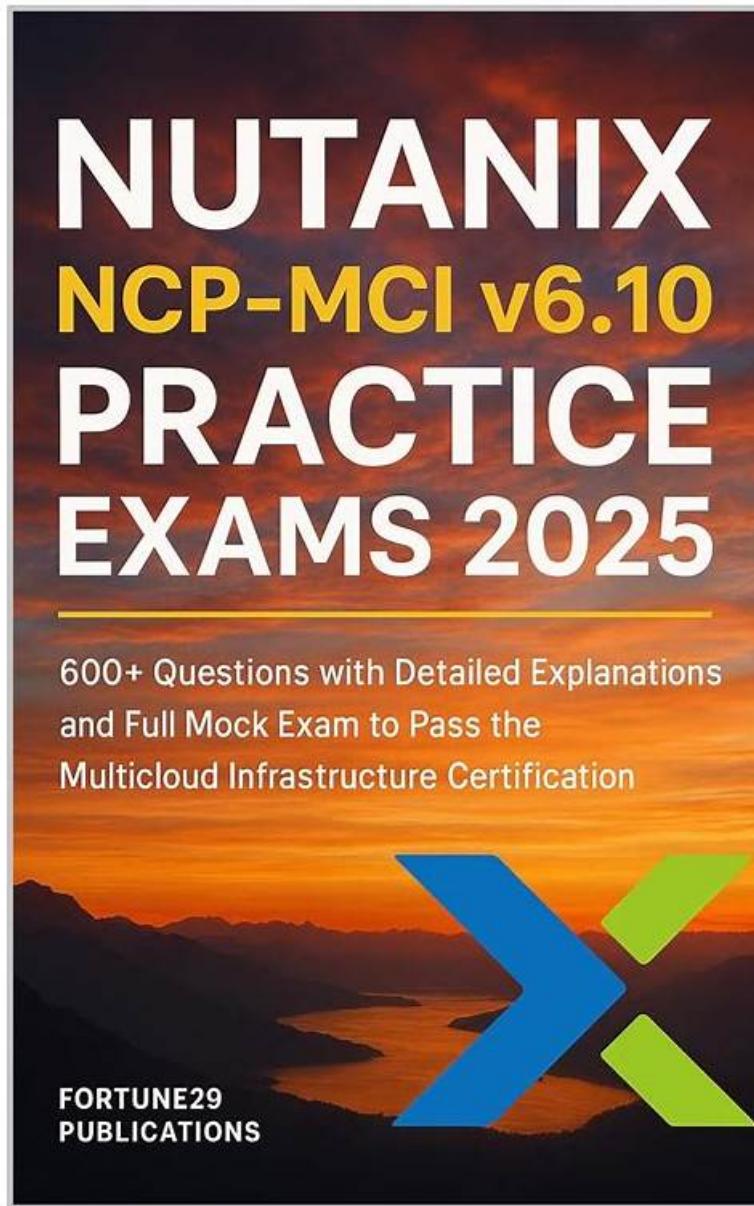


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Dumps

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Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q13-Q18):

NEW QUESTION # 13

An administrator needs to perform AOS and AHV upgrades on a Nutanix cluster and wants to ensure that VM data is replicated as quickly as possible when hosts and CVMs are rebooted.

Configure Cluster 1 so that after planned host and CVM reboots, the rebuild scan starts immediately.

Note:

You will need to use SSH for this task. Ignore the fact that this is a 1-node cluster.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to configure the immediate rebuild scan on Cluster 1.

This task must be performed from an SSH session connected to a CVM (Controller VM) on Cluster 1.

1. Access the Cluster 1 CVM

* From the Prism Central dashboard, navigate to Hardware > Clusters and click on Cluster 1 to open its Prism Element (PE) interface.

* In the Cluster 1 PE, navigate to Hardware > CVMs to find the IP address of any CVM in the cluster.

* Use an SSH client (like PuTTY) to connect to the CVM's IP address.

* Log in with the admin user and password.

2. Modify the Rebuild Delay Setting

By default, the cluster waits 15 minutes (900 seconds) before starting a rebuild scan after a CVM reboot. You will change this setting to 0.

* Once logged into the CVM, run the following command to set the delay to 0 seconds:

gflag --set --gflags=stargate_delayed_rebuild_scan_secs=0

* (Optional but recommended) You can verify the change took effect by running the "get" command:

gflag --get --gflags=stargate_delayed_rebuild_scan_secs

The output should now show stargate_delayed_rebuild_scan_secs=0.

NEW QUESTION # 14

Task 5

An administrator has noticed that after a host failure, the SQL03 VM was not powered back on from another host within the cluster. The Other SQL VMs (SQL01, SQL02) have recovered properly in the past.

Resolve the issue and configure the environment to ensure any single host failure affects a minimal number of SQL VMs.

Note: Do not power on any VMs

Answer:

Explanation:

See the Explanation for step by step solution.

Explanation:

One possible reason why the SQL03 VM was not powered back on after a host failure is that the cluster was configured with the default (best effort) VM high availability mode, which does not guarantee the availability of VMs in case of insufficient resources on the remaining hosts. To resolve this issue, I suggest changing the VM high availability mode to guarantee (reserved segments), which reserves some memory on each host for failover of VMs from a failed host. This way, the SQL03 VM will have a higher chance of being restarted on another host in case of a host failure.

To change the VM high availability mode to guarantee (reserved segments), you can follow these steps:

Log in to Prism Central and select the cluster where the SQL VMs are running.

Click on the gear icon on the top right corner and select Cluster Settings.

Under Cluster Services, click on Virtual Machine High Availability.

Select Guarantee (Reserved Segments) from the drop-down menu and click Save.

To configure the environment to ensure any single host failure affects a minimal number of SQL VMs, I suggest using anti-affinity rules, which prevent VMs that belong to the same group from running on the same host. This way, if one host fails, only one SQL VM will be affected and the other SQL VMs will continue running on different hosts.

To create an anti-affinity rule for the SQL VMs, 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 click on Create Group.

Enter a name for the group, such as SQL Group, and click Next.

Select the SQL VMs (SQL01, SQL02, SQL03) from the list and click Next.

Select Anti-Affinity from the drop-down menu and click Next.

Review the group details and click Finish.

I hope this helps. How else can I help?

https://portal.nutanix.com/page/documents/details?targetId=AHV-Admin-Guide-v6_5:ahv-affinity-policies-c.html

A screenshot of a computer Description automatically generated with medium confidence

NEW QUESTION # 15

An administrator is experiencing an unidentified issue which is causing inode exhaustion on CVMs in Cluster

1. The time between receiving alerts and exhaustion is too short; the administrator needs to lower the alert thresholds to allow more time to clean up inodes until the issue has been identified and resolution implemented.

From Prism Element, modify the appropriate alert policy setting critical threshold for Cluster 1 to 60% and warning threshold to 45%. Ensure the check runs every minute and is not resolved without administrator action.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to modify the alert policy from the Prism Element (PE) interface for Cluster 1.

1. Access Cluster 1 Prism Element

* From the main Prism Central dashboard, navigate to Hardware > Clusters.

* Find Cluster 1 in the list and click its name. This will open the specific Prism Element login page for that cluster.

* Log in to Cluster 1's Prism Element interface.

2. Modify the Alert Policy

* In the Cluster 1 PE interface, click the gear icon (Settings) in the top-right corner.

* From the left-hand menu, select Alert Policies.

* In the search bar, type inode to find the correct policy.

* Select the checkbox for the policy named cvm_inode_usage_high.

* Click the Update button.

* In the "Update Alert Policy" dialog, configure the following settings:

* Warning Threshold (%): Change the value to 45.

* Critical Threshold (%): Change the value to 60.

* Check Interval (Secs): Change the value to 60 (to run the check every minute).

* Auto Resolve: Uncheck this box (to ensure the alert is not resolved without administrator action).

* Click Save.

NEW QUESTION # 16

A company who offers Infrastructure as a Service needs to onboard a new customer. The new customer requires a dedicated cloud plan which tolerates two host failures.

The customer is planning to move current workloads in three waves, with three months between waves starting today:

- * Wave One: 100 VMs
- * Wave Two: 50 VMs
- * Wave Three: 20 VMs

Workload profile is:

- * vCPU: 4
- * vRAM: 16 GB
- * Storage: 200 GB

The service provider company needs to estimate required resources upfront, to accommodate customer requirements, considering also that:

- * limit the number of total nodes
- * selected system vendor HPE
- * selected model DX365-10-G11-NVMe
- * full-flash node (including NVMe + SSD)
- * 12 months runway

Create and save the scenario as IaaS and export to the desktop, name the file IaaS-requirement.pdf Note: You must export the PDF to the desktop as IaaS-requirement.pdf to receive any credit.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to create and export the capacity planning scenario. This task is performed within Prism Central.

1. Navigate to the Planning Dashboard

* From the Prism Central main menu (hamburger icon), navigate to Operations > Planning.

2. Create and Define the Scenario

* Click the + Create Scenario button.

* In the dialog box:

* Scenario Name: IaaS

* Scenario Type: Select New Workload

* Click Create. This will open the scenario editor.

3. Configure Cluster and Runway Settings

* In the "IaaS" scenario editor, find the Runway setting (top left) and set it to 12 Months.

* Find the Cluster configuration tile and click Edit.

* Set Number of Host Failures to Tolerate to 2.

* Click Save.

4. Define the Workload Profile

* In the Workloads section, click the + Add Workload button.

* Select Create a new workload profile.

* Fill in the VM specifications:

* Workload Name: Customer-VM (or similar)

* vCPU per VM: 4

* Memory per VM: 16 GB

* Storage per VM: 200 GB

* Click Add.

5. Set the Workload Growth Plan (Waves)

* You will be returned to the main scenario editor. In the timeline section ("Workload Plan"), add the VMs:

* Wave One (Today):

* Click + Add under the "Today" column.

* Select the Customer-VM profile.

* Enter 100 VMs.

* Click Add.

* Wave Two (3 Months):

* Click the + icon on the timeline itself.

* Set the date to 3 Months from today.

* Click + Add under this new "3 Months" column.

* Select the Customer-VM profile.

* Enter 50 VMs.

- * Click Add.
- * Wave Three (6 Months):
 - * Click the + icon on the timeline.
 - * Set the date to 6 Months from today.
 - * Click + Add under this new "6 Months" column.
 - * Select the Customer-VM profile.
 - * Enter 20 VMs.
 - * Click Add.
- 6. Select the Hardware
 - * In the Hardware configuration tile, click Change Hardware.
 - * In the "Select Hardware" pane:
 - * Vendor: Select HPE.
 - * Model: Search for and select DX365-10-G11-NVMe.
 - * Note: This model is full-flash by definition, satisfying the requirement.
 - * Click Done. The planner will recalculate the required nodes.
- 7. Save and Export the Scenario
 - * Click the Save icon (floppy disk) in the top-right corner to save the IaaS scenario.
 - * Click the Export icon (arrow pointing down) in the top-right corner.
 - * Select PDF from the dropdown menu.
 - * A "Save As" dialog will appear.
 - * Navigate to the Desktop.
 - * Set the file name to IaaS-requirement.pdf.
 - * Click Save.

NEW QUESTION # 17

Your security team is working on automation to manage Security Policies.

They have exported some of the existing rules to the file "Security Policy.txt" located on the desktop. This file needs to be modified for the test environment.

- * All rules except the quarantine rule should be logged.
- * Only the Quarantine rule should be enforced, the other rules will only be logged.
- * The quarantine rule should affect the SecOps environment.
- * The SMB rule should only affect VMs with the "smbhost" and "smbclient" tags.
- * The "DN test" policy should allow ipv6 and should not restrict any protocols between the included tiers.

There are three rules in the file, do not delete, add or copy lines. Only replace xxxx with the correct value as appropriate. It is possible that not all "xxxx" will be replaced.

Save the file with the same name.

Possible values to replace the "xxxx":

8080

ALL

APPLY

false

MONITOR

Non-Prod

SecOps

smbhost

smbclient

TCP

True

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to modify the security policy file as required.

Navigate to the desktop and open the file Security Policy.txt (which corresponds to the provided Security Policy.bak content) using a text editor like Notepad.

Modify the file content by replacing the xxxx and xxxx placeholders according to the security requirements.

Modifications by Rule

Here are the specific changes to make within the file:

1. Quarantine Rule

Requirement 1 (No Logging): The quarantine rule should not be logged.

Change "is_policy_hitlog_enabled": "xxxx" to "is_policy_hitlog_enabled": "false" Requirement 2 (Enforce): This rule must be enforced.

Change "action": "xxxx" (under quarantine_rule) to "action": "APPLY"

Requirement 3 (Environment): The rule must affect the "SecOps" environment.

Change "Environment": ["xxxx"] to "Environment": ["SecOps"]

2. SMB-block Rule

Requirement 1 (Logging): This rule must be logged.

Change "is_policy_hitlog_enabled": "xxxx" to "is_policy_hitlog_enabled": "True" Requirement 2 (Monitor): This rule must not be enforced, only logged.

Change "action": "xxxx" (under isolation_rule) to "action": "MONITOR"

Requirement 4 (Tags): The rule must affect the "smbhost" and "smbclient" tags.

Change "SMBv1": ["xxxx"] to "SMBv1": ["smbhost"]

Change "SMRv1": ["xxxx"] to "SMRv1": ["smbclient"]

3. DN test (dn-policy1) Rule

Requirement 2 (Monitor): This rule must not be enforced, only logged.

Change "action": "xxxx" (under app_rule) to "action": "MONITOR"

Requirement 5 (Allow IPv6): This policy must allow IPv6 traffic.

Change "allow_ipv6_traffic": "xxxx" to "allow_ipv6_traffic": "True"

Final Step

After making all the replacements, Save the file, overwriting the original Security Policy.txt on the desktop.

Example of completed rules (replace xxxx accordingly):

Rule Name: Quarantine Rule

Logged: false

Action: APPLY

Environment: SecOps

Protocols: TCP

Ports: 8080

Rule Name: SMB Rule

Logged: True

Action: MONITOR

Tags: smbhost, smbclient

Protocols: TCP

Ports: 8080

Rule Name: DN Test Policy

Logged: True

Action: MONITOR

Environment: Non-Prod

Protocols: ALL

Ports: 8080

NEW QUESTION # 18

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