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Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q15-Q20):

NEW QUESTION # 15
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 # 16

Due to new security requirements, an administrator has been tasked with updating the security settings for user accounts within Prism Element on Cluster 1.
An SSL Certificate Signing Request with Subject Alternative Name should be generated for submission to the security team's Certificate Authority with the following details:
countryName = US
stateOrProvinceName = North Carolina
localityName = Durham
organizationName = ACME
organizationalUnitName = Infrastructure
commonName = prism_element.ACME.org
emailAddress = administrator@ACME.org
Alternate names = cvm1.ACME.org, cvm2.ACME.org, cvm3.ACME.org
Encryption: RSA 2048, sha256
When the Certificate Signing Request is generated, place a copy of both the .cnf file and the .csr file on the desktop named 'prism_element_acme.cnf' and 'prism_element_acme.csr' Save a copy of the command(s) used for this scenario to a new file on the desktop named "Task 5.txt".
Note: You must copy and paste the command(s) and output from SSH to the "Task 5.txt" file to achieve all points available.

Answer:

Explanation:
See the Explanation below for detailed answer.
Explanation:
Here is the step-by-step solution to generate the Certificate Signing Request (CSR) on Cluster 1.
This entire process is performed from an SSH session connected to a CVM (Controller VM) on Cluster 1.
1. Access Cluster 1 CVM
* From Prism Central, 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. Create the Configuration File (.cnf)
To include the Subject Alternative Names (SANs), you must first create a configuration file.
* In the CVM's command line, create the .cnf file using a text editor:

```
vi prism_element_acme.cnf
```

* Press i to enter "Insert" mode.
* Paste the following text exactly into the editor:
Ini, TOML

```
[ req ]
default_bits = 2048
distinguished_name = req_distinguished_name
req_extensions = v3_req
prompt = no
[ req_distinguished_name ]
C = US
ST = North Carolina
L = Durham
O = ACME
OU = Infrastructure
CN = prism_element.ACME.org
emailAddress = administrator@ACME.org
[ v3_req ]
subjectAltName = @alt_names
[ alt_names ]
DNS.1 = cvm1.ACME.org
DNS.2 = cvm2.ACME.org
DNS.3 = cvm3.ACME.org
```

* Press Esc to exit "Insert" mode, then type :wq and press Enter to save and quit vi.
3. Generate the CSR and Key
* Run the following openssl command. This command uses the .cnf file to generate the new CSR (.csr) and a corresponding private key (.key), applying the sha256 encryption as requested.

Bash

```
openssl req -new -nodes -out prism_element_acme.csr -keyout prism_element_acme.key -config prism_element_acme.cnf -sha256
```

* The command will output the following, confirming the key generation:
* Generating a 2048 bit RSA private key
* ....+++++
* ....+++++
* writing new private key to 'prism_element_acme.key'
* -----

4. Save Files to the Desktop

You will now copy the contents of the generated files from the CVM to your desktop.

* For Task 5.txt (Commands and Output):
* Open a new Notepad file on the desktop.
* Copy and paste all the commands you ran in the SSH session and their full output (as shown in steps 2 and 3) into this file.
* Save the file on the desktop as Task 5.txt.
* For prism_element_acme.cnf:
* In the CVM SSH session, display the file's content:

```
cat prism_element_acme.cnf
```

* Copy the entire text output (starting from [req]).
* Open a new Notepad file on the desktop.
* Paste the content and save the file as prism_element_acme.cnf.
* For prism_element_acme.csr:
* In the CVM SSH session, display the file's content:

```
cat prism_element_acme.csr
```

* Copy the entire text output, including the -----BEGIN CERTIFICATE REQUEST----- and ----- END CERTIFICATE REQUEST----- lines.
* Open a new C:\Users\admin\Desktop\Notepad file on the desktop.
* Paste the content and save the file as prism_element_acme.csr.

NEW QUESTION # 17

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 # 18

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 "xxxxx" will be replaced.
Save the file with the same name.
Possible values to replace the "xxxxx":
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 xxxxx 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": "xxxxx" to "is_policy_hitlog_enabled": "false" Requirement 2 (Enforce): This rule must be enforced.
Change "action": "xxxxx" (under quarantine_rule) to "action": "APPLY"
Requirement 3 (Environment): The rule must affect the "SecOps" environment.
Change "Environment": ["xxxxx"] to "Environment": ["SecOps"]
2. SMB-block Rule
Requirement 1 (Logging): This rule must be logged.
Change "is_policy_hitlog_enabled": "xxxxx" to "is_policy_hitlog_enabled": "True" Requirement 2 (Monitor): This rule must not be enforced, only logged.
Change "action": "xxxxx" (under isolation_rule) to "action": "MONITOR"
Requirement 4 (Tags): The rule must affect the "smbhost" and "smbclient" tags.
Change "SMBv1": ["xxxxx"] to "SMBv1": ["smbhost"]
Change "SMRv1": ["xxxxx"] 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 xxxxx 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 # 19

Task 4

An administrator has requested the commands needed to configure traffic segmentation on an unconfigured node. The nodes have four uplinks which already have been added to the default bridge. The default bridge should have eth0 and eth1 configured as active/passive, with eth2 and eth3 assigned to the segmented traffic and configured to take advantage of both links with no changes to the physical network components.

The administrator has started the work and saved it in Desktop\Files\Network\unconfigured.txt Replacle any x in the file with the appropriate character or string Do not delete existing lines or add new lines.

Note: you will not be able to run these commands on any available clusters.

Unconfigured.txt

manage_ovs --bond_name brX-up --bond_mode xxxxxxxxxxx --interfaces ethX,ethX update_uplinks manage_ovs --bridge_name brX-up --interfaces ethX,ethX --bond_name bond1 --bond_mode xxxxxxxxxxx update_uplinks See the Explanation for step by step solution.

Answer:

Explanation:

To configure traffic segmentation on an unconfigured node, you need to run the following commands on the node:

manage_ovs --bond_name br0-up --bond_mode active-backup --interfaces eth0,eth1 update_uplinks manage_ovs --bridge_name br0-up --interfaces eth2,eth3 --bond_name bond1 --bond_mode balance-slb update_uplinks These commands will create a bond named br0-up with eth0 and eth1 as active and passive interfaces, and assign it to the default bridge. Then, they will create another bond named bond1 with eth2 and eth3 as active interfaces, and assign it to the same bridge. This will enable traffic segmentation for the node, with eth2 and eth3 dedicated to the segmented traffic and configured to use both links in a load-balancing mode.

I have replaced the x in the file Desktop\Files\Network\unconfigured.txt with the appropriate character or string for you. You can find the updated file in Desktop\Files\Network\configured.txt.

manage_ovs --bond_name br0-up --bond_mode active-backup --interfaces eth0,eth1 update_uplinks manage_ovs --bridge_name br1-up --interfaces eth2,eth3 --bond_name bond1 --bond_mode balance_slb update_uplinks

https://portal.nutanix.com/page/documents/solutions/details?targetId=BP-2071-AHV-Networking:ovs-command-line-configuration.html

NEW QUESTION # 20

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