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Nutanix NCM-MCI Exam Information

- Languages: English
- Time Duration: 60 minutes
- The passing score: 73%

Nutanix NCM-MCI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Analyze and Optimize VM Performance: Manipulation of VM configuration for resource utilization is discussed in this topic. It also explains interpreting VM, node, and cluster metrics.
Topic 2	<ul style="list-style-type: none">• Analyze and Optimize Storage Performance: It covers storage settings, workload requirements, and storage internals.
Topic 3	<ul style="list-style-type: none">• Business Continuity: The topic of business continuity measures knowledge about analyzing BCDR plans for compliance and evaluating BCDR plans for specific workloads.
Topic 4	<ul style="list-style-type: none">• Advanced Configuration and Troubleshooting: This topic covers sub-topics of executing API calls, configuring third-party integrations, analyzing AOS security posture, and translating business needs into technical solutions. Lastly, it discusses troubleshooting Nutanix services as well.
Topic 5	<ul style="list-style-type: none">• Analyze and Optimize Network Performance: Focal points of this topic are overlay networking, physical networks, virtual networks, network configurations, and flow policies. Moreover, questions about configurations also appear.

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There is no need to worry about failure when you already have the most probable Nutanix Certified Master - Multicloud Infrastructure v6.10 (NCM-MCI) questions in the Cert2Pass PDF document. All you need is to stay positive, put in your best efforts, and be confident while appearing for the Nutanix NCM-MCI Exam. Laptops, smartphones, and tablets support the PDF format.

Nutanix Certified Master - Multicloud Infrastructure v6.10 Sample Questions (Q15-Q20):

NEW QUESTION # 15

Task 6

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 Replace 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 xxxxxxxxxx --interfaces ethX,ethX update_uplinks
manage_ovs --bridge_name brX-up --interfaces ethX,ethX --bond_name bond1 --bond_mode xxxxxxxxxx update_uplinks
```

Answer:

Explanation:

See the Explanation for step by step solution

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 br1-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-Networkingovs-command-line-configuration.html>

NEW QUESTION # 16

Task4

An administrator will be deploying Flow Networking and needs to validate that the environment, specifically switch vs1, is appropriately configured. Only VPC traffic should be carried by the switch.

Four versions each of two possible commands have been placed in Desktop\Files\Network\flow.txt. Remove the hash mark (#) from the front of correct First command and correct Second command and save the file.

Only one hash mark should be removed from each section. Do not delete or copy lines, do not add additional lines. Any changes other than removing two hash marks (#) will result in no credit.

Also, SSH directly to any AHV node (not a CVM) in the cluster and from the command line display an overview of the Open vSwitch configuration. Copy and paste this to a new text file named Desktop\Files\Network\AHVswitch.txt.

Note: You will not be able to use the 192.168.5.0 network in this environment.

First command

```
#net.update_vpc_traffic_config virtual_switch=vs0
net.update_vpc_traffic_config virtual_switch=vs1
#net.update_vpc_east_west_traffic_config virtual_switch=vs0
#net.update_vpc_east_west_traffic_config virtual_switch=vs1
```

Second command

```
#net.update_vpc_east_west_traffic_config permit_all_traffic=true
```

```
net.update_vpc_east_west_traffic_config permit_vpc_traffic=true  
#net.update_vpc_east_west_traffic_config permit_all_traffic=false  
#net.update_vpc_east_west_traffic_config permit_vpc_traffic=false
```

Answer:

Explanation:

See the Explanation for step by step solution

Explanation:

First, you need to open the Prism Central CLI from the Windows Server 2019 workstation. You can do this by clicking on the Start menu and typing "Prism Central CLI". Then, you need to log in with the credentials provided to you.

Second, you need to run the two commands that I have already given you in Desktop\Files\Network\flow.txt. These commands are:

```
net.update_vpc_traffic_config virtual_switch=vs1 net.update_vpc_east_west_traffic_config permit_vpc_traffic=true  
These commands will update the virtual switch that carries the VPC traffic to vs1, and update the VPC east-west traffic configuration to allow only VPC traffic. You can verify that these commands have been executed successfully by running the command:
```

```
net.get_vpc_traffic_config
```

This command will show you the current settings of the virtual switch and the VPC east-west traffic configuration.

Third, you need to SSH directly to any AHV node (not a CVM) in the cluster and run the command:

```
ovs-vsctl show
```

This command will display an overview of the Open vSwitch configuration on the AHV node. You can copy and paste the output of this command to a new text file named Desktop\Files\Network\AHVswitch.txt.

You can use any SSH client such as PuTTY or Windows PowerShell to connect to the AHV node. You will need the IP address and the credentials of the AHV node, which you can find in Prism Element or Prism Central.

remove # from greens

On AHV execute:

```
sudo ovs-vsctl show
```

CVM access AHV access command

```
nutanix@NTNX-A-CVM:192.168.10.5~$ ssh root@192.168.10.2 "ovs-vsctl show" Open AHVswitch.txt and copy paste output
```

NEW QUESTION # 17

Task 10

An administrator is working to create a VM using Nutanix V3 API calls with the following specifications.

* VM specifications:

- * vCPUs: 2
- * Memory: 8GB
- * Disk Size: 50GB
- * Cluster: Cluster A
- * Network: default- net

The API call is failing, indicating an issue with the payload:

The body is saved in Desktop/ Files/API_Create_VM.txt

Correct any issues in the text file that would prevent from creating the VM. Also ensure the VM will be created as speeded and make sure it is saved for re-use using that filename.

Deploy the vm through the API

Note: Do not power on the VM.

Answer:

Explanation:

See the Explanation for step by step solution

Explanation:

<https://portal.nutanix.com/page/documents/kbs/details?targetId=kA00e000000LLEzCAO>

<https://jsonformatter.curiousconcept.com/>

```
acli net.list (uuid network default_net)
```

```
ncli cluster info (uuid cluster)
```

Put Call: <https://Prism Central IP address : 9440/api/nutanix/v3/vms>

Edit these lines to fix the API call, do not add new lines or copy lines.

You can test using the Prism Element API explorer or PostMan

Body:

```
{  
{
```

```

"spec": {
  "name": "Test_Deploy",
  "resources": {
    "power_state": "OFF",
    "num_vcpus_per_socket": ,
    "num_sockets": 1,
    "memory_size_mib": 8192,
    "disk_list": [
      {
        "disk_size_mib": 51200,
        "device_properties": {
          "device_type": "DISK"
        }
      },
      {
        "device_properties": {
          "device_type": "CDROM"
        }
      }
    ],
    "nic_list": [
      {
        "nic_type": "NORMAL_NIC",
        "is_connected": true,
        "ip_endpoint_list": [
          {
            "ip_type": "DHCP"
          }
        ],
        "subnet_reference": {
          "kind": "subnet",
          "name": "default_net",
          "uuid": "00000000-0000-0000-0000-000000000000"
        }
      }
    ],
    "cluster_reference": {
      "kind": "cluster",
      "name": "NTNXDemo",
      "uuid": "00000000-0000-0000-0000-000000000000"
    },
    "api_version": "3.1.0",
    "metadata": {
      "kind": "vm"
    }
  }
}
https://www.nutanix.dev/2019/08/26/post-a-package-building-your-first-nutanix-rest-api-post-request/ Reference

```

NEW QUESTION # 18

TASK2

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

Explanation:

This task focuses on Security Technical Implementation Guides (STIGs) and general hardening of the Nutanix cluster. Most of these tasks are best performed via the Nutanix Command Line Interface (ncli) on the CVM, though the SSH key requirement is often easier to handle via the Prism GUI.

Here is the step-by-step procedure to complete Task 2.

Prerequisites: Connection

Open PuTTY (or the available terminal) from the provided Windows Desktop.

SSH into the Cluster 2 CVM. (If the Virtual IP is unknown, check Prism Element for the CVM IP).

Log in using the provided credentials (usually nutanix / nutanix/4u or the admin password provided in your instructions).

Step 1: Output SCMA Policy (Do this FIRST)

Requirement: Output the cluster-wide configuration of the SCMA policy to desktop\output.txt before changes are made.

In the SSH session on the CVM, run:

Bash

```
ncli cluster get-software-config-management-policy
```

Copy the output from the terminal window.

Open Notepad on the Windows Desktop.

Paste the output.

Save the file as output.txt on the Desktop.

Step 2: Enable AIDE (Weekly)

Requirement: Enable the Advanced Intrusion Detection Environment (AIDE) to run on a weekly basis for the hypervisor and CVMs.

In the same CVM SSH session, run the following command to modify the SCMA policy:

Bash

```
ncli cluster edit-software-config-management-policy enable-aide=true schedule-interval=WEEKLY
```

(Note: This single command applies the policy to both Hypervisor and CVMs by default in most versions).

Step 3: Enable High-Strength Password Policies

Requirement: Enable high-strength password policies for the hypervisor and cluster.

Run the following command:

Bash

```
ncli cluster set-high-strength-password-policy enable=true
```

Step 4: Update Root Password for Cluster Nodes

Requirement: Update the password for the root user on the Cluster 2 node to match the admin user password.

Method A: The Automated Way (Recommended)

Use ncli to set the password for all hypervisor nodes at once without needing to SSH into them individually.

Run:

Bash

```
ncli cluster set-hypervisor-password
```

When prompted, enter the current admin password (this becomes the new root password).

Method B: The Manual Way (If NCLI fails or manual access is required)

Note: Use this if the exam specifically wants you to touch the node via the 172.x network.

From the CVM, SSH to the host using the internal IP:

Bash

```
ssh root@172.30.0.x
```

(Replace x with the host ID, e.g., 4 or 5)

Run the password change command:

Bash

```
passwd
```

Enter the admin password twice.

Repeat for other nodes in Cluster 2.

Step 5: Cluster Lockdown (SSH Keys)

Requirement: Ensure CVMs require SSH keys for login instead of passwords.

It is safest to do this via the Prism Element GUI to prevent locking yourself out.

Open Prism Element for Cluster 2 in the browser.

Click the Gear Icon (Settings) -> Cluster Lockdown.

Uncheck the box "Enable Remote Login with Password".

Click New Public Key (or Add Key).

Open the folder Desktop\Files\SSH on the Windows desktop.

Open the public key file (usually ends in .pub) in Notepad and copy the contents.

Paste the key into the Prism "Key" box.

Click Save.

Note: Do not reboot the cluster. The SCMA and Password policies take effect immediately without a reboot.

NEW QUESTION # 19

Task 15

An administrator found a CentOS VM, Cent_Down, on the cluster with a corrupted network stack. To correct the issue, the VM will need to be restored from a previous snapshot to become reachable on the network again.

VM credentials:

Username: root

Password: nutanix/4u

Restore the VM and ensure it is reachable on the network by pinging 172.31.0.1 from the VM.

Power off the VM before proceeding.

Answer:

Explanation:

See the Explanation for step by step solution

Explanation:

To restore the VM and ensure it is reachable on the network, you can follow these steps:

Log in to the Web Console of the cluster where the VM is running.

Click on Virtual Machines on the left menu and find Cent_Down from the list. Click on the power icon to power off the VM.

Click on the snapshot icon next to the power icon to open the Snapshot Management window.

Select a snapshot from the list that was taken before the network stack was corrupted. You can use the date and time information to choose a suitable snapshot.

Click on Restore VM and confirm the action in the dialog box. Wait for the restore process to complete.

Click on the power icon again to power on the VM.

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

Run the command ping 172.31.0.1 to verify that the VM is reachable on the network. You should see a reply from the destination IP address.

Go to VMS from the prism central gui

Select the VM and go to More -> Guest Shutdown

Go to Snapshots tab and revert to latest snapshot available

power on vm and verify if ping is working

NEW QUESTION # 20

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