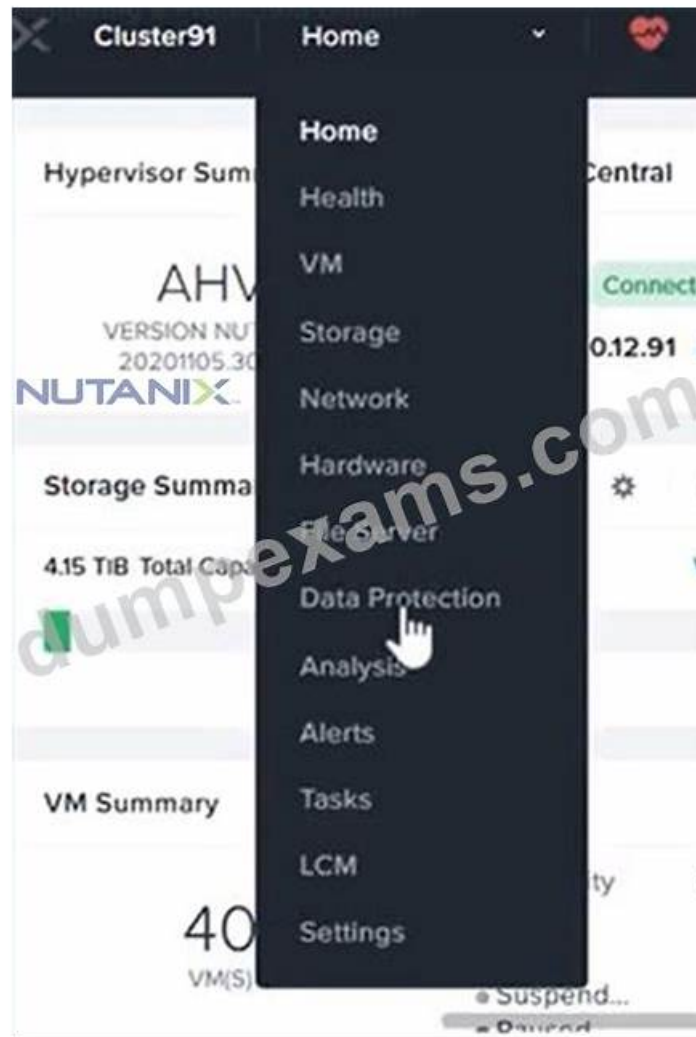


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## Nutanix Certified Master - Multicloud Infrastructure v6.10 Sample Questions (Q15-Q20):

### NEW QUESTION # 15

#### 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 # 16

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

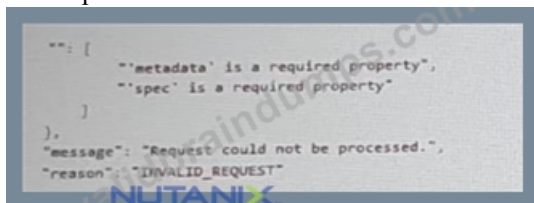
power on vm and verify if ping is working

## NEW QUESTION # 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,text

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

### 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 xxxxxxxxxxxx --interfaces ethX,ethX update_uplinks manage_ovs --bridge_name brX-up --interfaces ethX,ethX --bond_name bond1 --bond_mode xxxxxxxxxxxx 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 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 # 19

### Task 12

An administrator needs to create a report named VMs\_Power\_State that lists the VMs in the cluster and their basic details including the power state for the last month.

No other entities should be included in the report.

The report should run monthly and should send an email to admin@syberdyne.net when it runs.

Generate an instance of the report named VMs\_Power\_State as a CSV and save the zip file as

Desktop\Files\VMs\_Power\_state.zip Note: Make sure the report and zip file are named correctly. The SMTP server will not be configured.

### Answer:

Explanation:

See the Explanation for step by step solution

Explanation:

To create a report named VMs\_Power\_State that lists the VMs in the cluster and their basic details including the power state for the last month, 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 Report.

Enter VMs\_Power\_State as the report name and a description if required. Click Next.

Under the Custom Views section, select Data Table. Click Next.

Under the Entity Type option, select VM. Click Next.

Under the Custom Columns option, add the following variables: Name, Cluster Name, vCPUs, Memory, Power State. Click Next.

Under the Time Period option, select Last Month. Click Next.

Under the Report Settings option, select Monthly from the Schedule drop-down menu. Enter admin@syberdyne.net as the Email Recipient. Select CSV as the Report Output Format. Click Next.

Review the report details and click Finish.

To generate an instance of the report named VMs\_Power\_State as a CSV and save the zip file as

Desktop\Files\VMs\_Power\_state.zip, you can follow these steps:

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

Select Reports from the drop-down menu and find the VMs\_Power\_State report from the list. Click on Run Now.

Wait for the report to be generated and click on Download Report. Save the file as Desktop\Files\VMs\_Power\_state.zip.

1. Open the Report section on Prism Central (Operations > Reports)

2. Click on the New Report button to start the creation of your custom report

3. Under the Custom Views section, select Data Table

4. Provide a title to your custom report, as well as a description if required.

5. Under the Entity Type option, select VM

6. This report can include all as well as a selection of the VMs

7. Click on the Custom Columns option and add the below variables:

a. Name - Name of the listed Virtual Machine

b. vCPUs - A combination of the vCores and vCPU's assigned to the Virtual Machine c. Memory - Amount of memory assigned to the Virtual Machine d. Disk Capacity - The total amount of assigned virtual disk capacity e. Disk Usage - The total used virtual disk capacity f. Snapshot Usage - The total amount of capacity used by snapshots (Excluding Protection Domain snapshots)

8. Under the Aggregation option for Memory and Disk Usage accept the default Average option

## Columns

FOCUS

Custom Columns

Custom

Column Name	Aggregation
Name	-
vCPUs	-
Memory	Average ▾
Disk Capacity	-
Disk Usage	Average ▾
Snapshot Usage	-

**NUTANIX**<sup>TM</sup>

9. Click on the Add button to add this custom selection to your report
10. Next click on the Save and Run Now button on the bottom right of the screen
11. Provide the relevant details on this screen for your custom report:

## Run Report

? | X

### Report

REPORT INSTANCE NAME

DESCRIPTION

TIME PERIOD FOR REPORT

Last 24 Hours

TIMEZONE

Report Format

☐ PDF

☐ CSV

### Email Report

Report will be emailed to the following recipients

-

ADDITIONAL RECIPIENTS

Cancel

Run

12. You can leave the Time Period For Report variable at the default of Last 24 Hours

13. Specify a report output of preference (PDF or CSV) and if required Additional Recipients for this report to be mailed to. The



report can also simply be downloaded after this creation and initial run if required

14. Below is an example of this report in a CSV format:

### NEW QUESTION # 20

• • • • •

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