

# NCM-MCI-6.10 Test Prep & NCM-MCI-6.10 Exam Answers



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## Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q14-Q19):

### NEW QUESTION # 14

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 # 15

### Task 7

An administrator has been informed that a new workload requires a logically segmented network to meet security requirements.

Network configuration:

VLAN: 667

Network: 192.168.0.0

Subnet Mask: 255.255.255.0

DNS server: 34.82.231.220

Default Gateway: 192.168.0.1

Domain: cyberdyne.net

IP Pool: 192.168.9.100-200

DHCP Server IP: 192.168.0.2

Configure the cluster to meet the requirements for the new workload if new objects are required, start the name with 667.

### Answer:

Explanation:

See the Explanation for step by step solution.

Explanation:

To configure the cluster to meet the requirements for the new workload, you need to do the following steps:

Create a new VLAN with ID 667 on the cluster. You can do this by logging in to Prism Element and going to Network Configuration > VLANs > Create VLAN. Enter 667 as the VLAN ID and a name for the VLAN, such as 667\_VLAN.

Create a new network segment with the network details provided. You can do this by logging in to Prism Central and going to Network > Network Segments > Create Network Segment. Enter a name for the network segment, such as

667\_Network\_Segment, and select 667\_VLAN as the VLAN. Enter 192.168.0.0 as the Network Address and 255.255.255.0 as the Subnet Mask. Enter 192.168.0.1 as the Default Gateway and

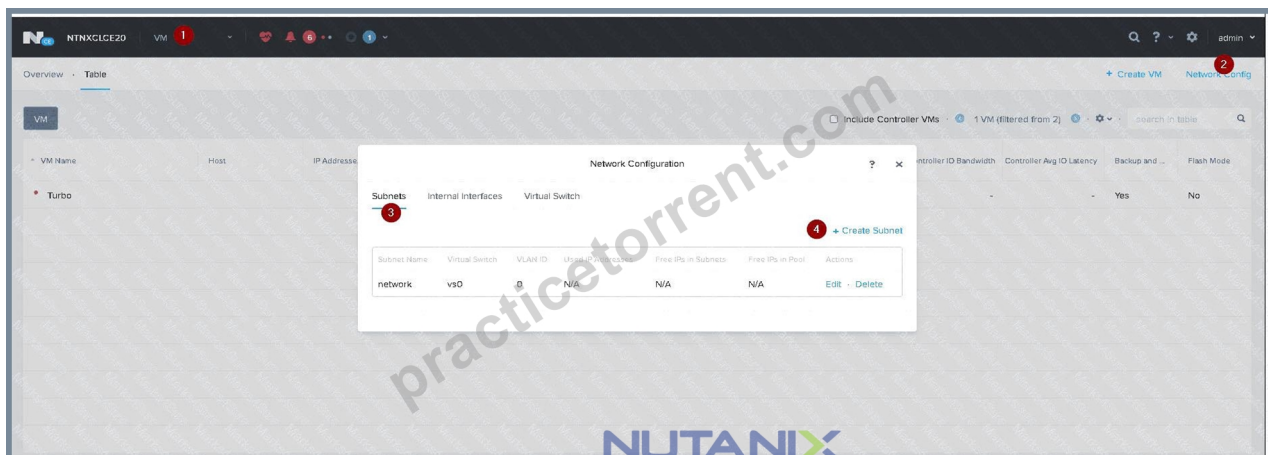
34.82.231.220 as the DNS Server. Enter cyberdyne.net as the Domain Name.

Create a new IP pool with the IP range provided. You can do this by logging in to Prism Central and going to Network > IP Pools > Create IP Pool. Enter a name for the IP pool, such as 667\_IP\_Pool, and select

667\_Network\_Segment as the Network Segment. Enter 192.168.9.100 as the Starting IP Address and 192.168.9.200 as the Ending IP Address.

Configure the DHCP server with the IP address provided. You can do this by logging in to Prism Central and going to Network > DHCP Servers > Create DHCP Server. Enter a name for the DHCP server, such as

667\_DHCP\_Server, and select 667\_Network\_Segment as the Network Segment. Enter 192.168.0.2 as the IP Address and select 667\_IP\_Pool as the IP Pool.



### Create Subnet

☒ DHCP Settings

Domain Name Servers (Comma Separated)

34.82.231.220 10

Domain Search (Comma Separated)

cyberdyne.net 11

Domain Name

cyberdyne 12

TFTP Server Name

Boot File Name

IP Address Pool

Cancel Save

cyberdyne.net

Domain Name

cyberdyne

TFTP Server Name

Boot File Name

IP Address Pools ?

+ Create Pool

13

No pools added.

☐ Override DHCP server ?

Cancel

Save

## Create Subnet

?

X

Boot File Name

IP Address Pools ?

+ Create Pool

Start Address

192.168.9.100

End Address

192.168.9.200

X

☒ Override DHCP server ?

15

DHCP Server IP Address

192.168.0.2

16

Cancel

Save

17

### NEW QUESTION # 16

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 # 17**

Task 2

Part1

An administrator logs into Prism Element and sees an alert stating the following:

Cluster services down on Controller VM (35.197.75.196)

Correct this issue in the least disruptive manner.

Part2

In a separate request, the security team has noticed a newly created cluster is reporting.

CVM [35.197.75.196] is using the default password.

They have provided some new security requirements for cluster level security.

Security requirements:

Update the default password for the root user on the node to match the admin user password: Note: 192.168.x.

x is not available. To access a node use the Host IP (172.30.0.x) from a CVM or the supplied external IP address.

Update the default password for the nutanix user on the CVM to match the admin user password.

Resolve the alert that is being reported.

Output the cluster-wide configuration of the SCMA policy to Desktop\Files\output.txt before changes are made.

Enable the Advance intrusion Detection Environment (AIDE) to run on a weekly basis for the cluster.

Enable high-strength password policies for the cluster.

Ensure CVMs require SSH keys for login instead of passwords. (SSH keys are located in the Desktop\Files\SSH folder).

Ensure the clusters meets these requirements. Do not reboot any cluster components.

**Answer:**

Explanation:

See the Explanation for step by step solution.

Explanation:

To correct the issue of cluster services down on Controller VM (35.197.75.196) in the least disruptive manner, you need to do the following steps:

Log in to Prism Element using the admin user credentials.

Go to the Alerts page and click on the alert to see more details.

You will see which cluster services are down on the Controller VM. For example, it could be cassandra, curator, stargate, etc.

To start the cluster services, you need to SSH to the Controller VM using the nutanix user credentials. You can use any SSH client such as PuTTY or Windows PowerShell to connect to the Controller VM. You will need the IP address and the password of the nutanix user, which you can find in Desktop\Files\SSH\nutanix.

txt.

Once you are logged in to the Controller VM, run the command:

```
cluster status | grep -v UP
```

This will show you which services are down on the Controller VM.

To start the cluster services, run the command:

```
cluster start
```

This will start all the cluster services on the Controller VM.

To verify that the cluster services are running, run the command:

```
cluster status | grep -v UP
```

This should show no output, indicating that all services are up.

To clear the alert, go back to Prism Element and click on Resolve in the Alerts page.

To meet the security requirements for cluster level security, you need to do the following steps:

To update the default password for the root user on the node to match the admin user password, you need to SSH to the node using the root user credentials. You can use any SSH client such as PuTTY or Windows PowerShell to connect to the node. You will need the IP address and the password of the root user, which you can find in Desktop\Files\SSH\root.txt.

Once you are logged in to the node, run the command:

```
passwd
```

This will prompt you to enter a new password for the root user. Enter the same password as the admin user, which you can find in Desktop\Files\SSH\admin.txt.

To update the default password for the nutanix user on the CVM to match the admin user password, you need to SSH to the CVM using the nutanix user credentials. You can use any SSH client such as PuTTY or Windows PowerShell to connect to the CVM.

You will need the IP address and the password of the nutanix user, which you can find in Desktop\Files\SSH\nutanix.txt.

Once you are logged in to the CVM, run the command:

```
passwd
```

This will prompt you to enter a new password for the nutanix user. Enter the same password as the admin user, which you can find in Desktop\Files\SSH\admin.txt.

To resolve the alert that is being reported, go back to Prism Element and click on Resolve in the Alerts page.

To output the cluster-wide configuration of SCMA policy to Desktop\Files\output.txt before changes are made, you need to log in to Prism Element using the admin user credentials.

Go to Security > SCMA Policy and click on View Policy Details. This will show you the current settings of SCMA policy for each entity type.

Copy and paste these settings into a new text file named Desktop\Files\output.txt.

To enable AIDE (Advanced Intrusion Detection Environment) to run on a weekly basis for the cluster, you need to log in to Prism Element using the admin user credentials.

Go to Security > AIDE Configuration and click on Enable AIDE. This will enable AIDE to monitor file system changes on all CVMs and nodes in the cluster.

Select Weekly as the frequency of AIDE scans and click Save.

To enable high-strength password policies for the cluster, you need to log in to Prism Element using the admin user credentials.

Go to Security > Password Policy and click on Edit Policy. This will allow you to modify the password policy settings for each entity type.

For each entity type (Admin User, Console User, CVM User, and Host User), select High Strength as the password policy level and click Save.

To ensure CVMs require SSH keys for login instead of passwords, you need to log in to Prism Element using the admin user credentials.

Go to Security > Cluster Lockdown and click on Configure Lockdown. This will allow you to manage SSH access settings for the cluster.

Uncheck Enable Remote Login with Password. This will disable password-based SSH access to the cluster.

Click New Public Key and enter a name for the key and paste the public key value from Desktop\Files\SSH\id\_rsa.pub. This will add a public key for key-based SSH access to the cluster.

Click Save and Apply Lockdown. This will apply the changes and ensure CVMs require SSH keys for login instead of passwords.

Part1

Enter CVM ssh and execute:

```
cluster status | grep -v UP
```

```
cluster start
```

If there are issues starting some services, check the following:

Check if the node is in maintenance mode by running the `ncli host ls` command on the CVM. Verify if the parameter Under Maintenance Mode is set to False for the node where the services are down. If the parameter Under Maintenance Mode is set to True, remove the node from maintenance mode by running the following command:

```
nutanix@cvm$ ncli host edit id=<host id> enable-maintenance-mode=false
```

You can determine the host ID by using `ncli host ls`.

See the troubleshooting topics related to failed cluster services in the Advanced Administration Guide available from the Nutanix

Portal's Software Documentation page. (Use the filters to search for the guide for your AOS version). These topics have information about common and AOS-specific logs, such as Stargate, Cassandra, and other modules.

Check for any latest FATALs for the service that is down. The following command prints all the FATALs for a CVM. Run this command on all CVMs.

```
nutanix@cvm$ for i in `svnips`; do echo "CVM: $i"; ssh $i "ls -ltr /home/nutanix/data/logs/*.FATAL"; done
NCC Health Check: cluster_services_down_check (nutanix.com)
Part2 Vlad Drac2023-06-05T13:22:00.86I'll update this one with a smaller, if possible, command
Update the default password for the root user on the node to match the admin user password
echo -e "CHANGING ALL AHV HOST ROOT PASSWORDS.\nPlease input new password: "; read -rs password1; echo "Confirm new password: "; read -rs password2; if [ "$password1" = "$password2" ]; then for host in $(hostips); do echo Host $host; echo $password1 | ssh root@$host "passwd --stdin root"; done; else echo "The passwords do not match"; fi
Update the default password for the nutanix user on the CVM
sudo passwd nutanix
Output the cluster-wide configuration of the SCMA policy
ncli cluster get-hypervisor-security-config
Output Example:
```

```
nutanix@NTNX-372a19a3-A-CVM:10.35.150.184:~$ ncli cluster get-hypervisor-security-config
Enable Aide : false
Enable Core : false
Enable High Strength P... : false
Enable Banner : false
Schedule : DAILY
Enable iTLB Multihit M... : false
Enable the Advance intrusion Detection Environment (AIDE) to run on a weekly basis for the cluster.
```

```
ncli cluster edit-hypervisor-security-params enable-aide=true
```

```
ncli cluster edit-hypervisor-security-params schedule=weekly
```

Enable high-strength password policies for the cluster.

```
ncli cluster edit-hypervisor-security-params enable-high-strength-password=true
```

Ensure CVMs require SSH keys for login instead of passwords

<https://portal.nutanix.com/page/documents/kbs/details?targetId=kA0600000008gb3CAA>



Name

Key

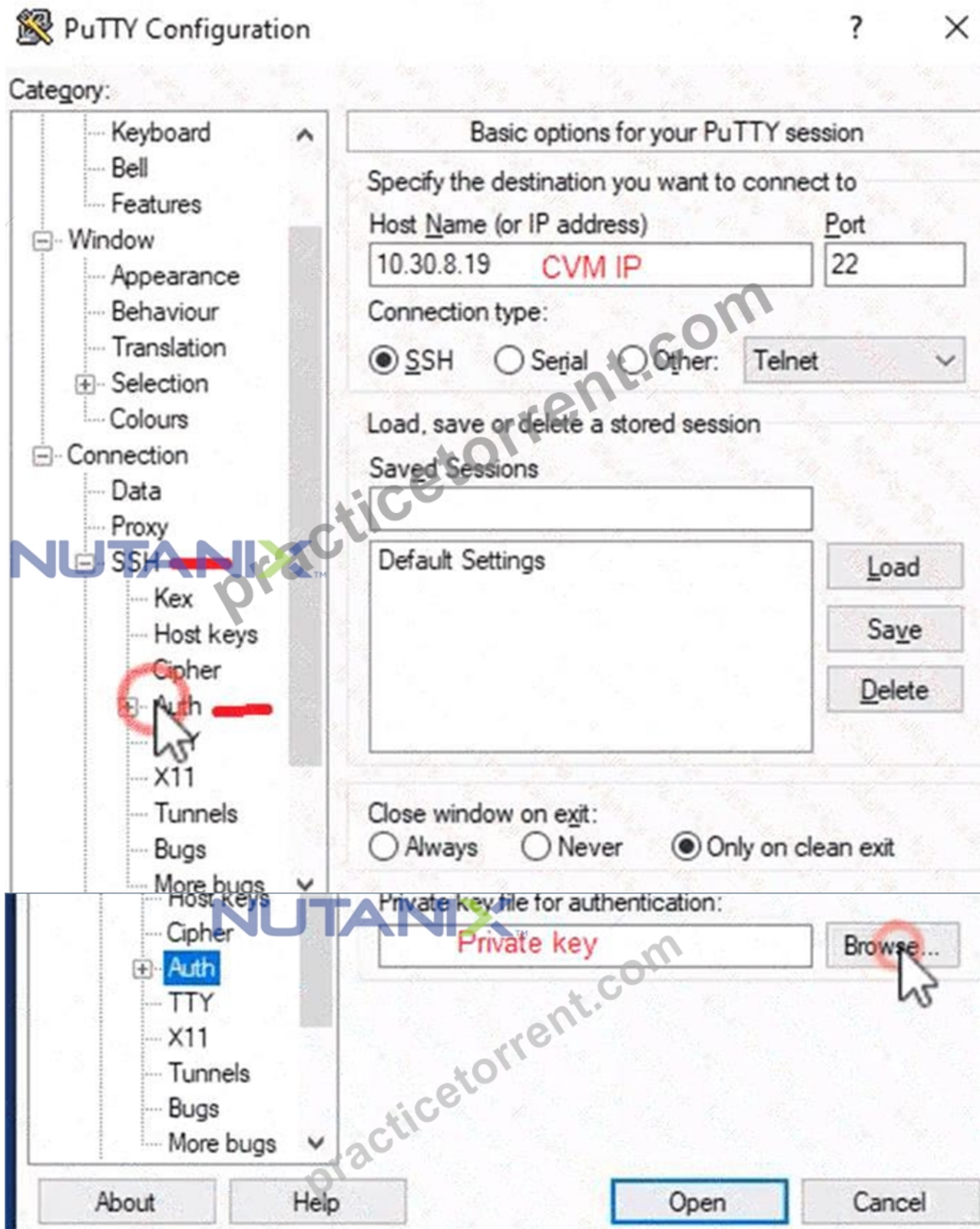
Public Key here

practicetorrent.com

 Back

Save



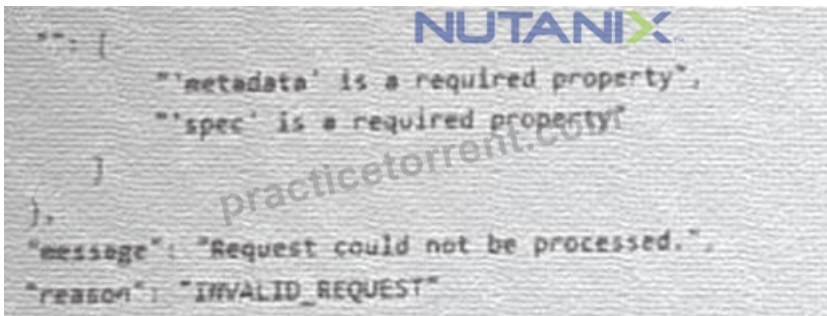


#### NEW QUESTION # 18

Task 16

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/v3vms>

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 # 19

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