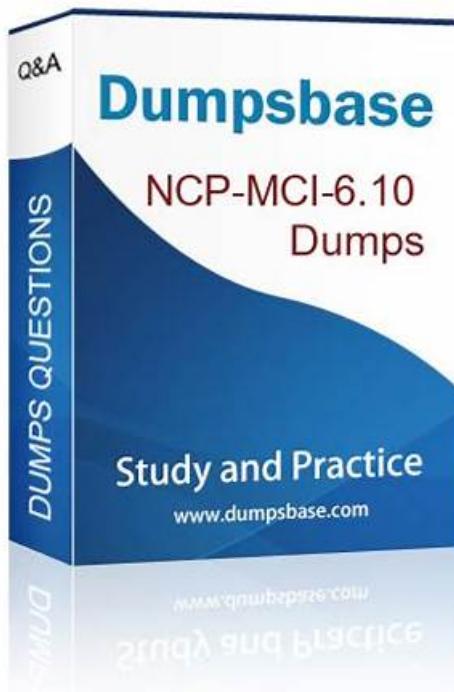


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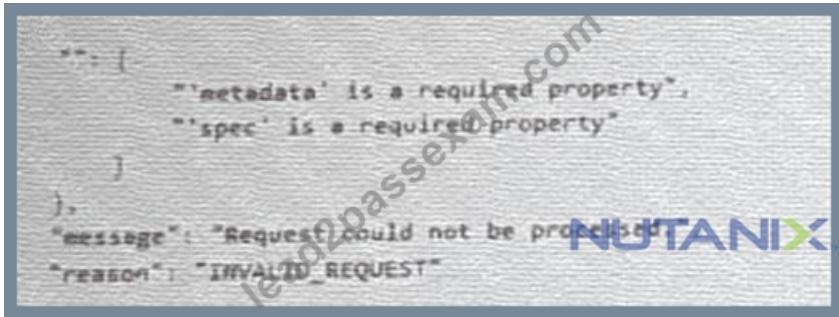
Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q22-Q27):

NEW QUESTION # 22

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.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 defult_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 # 23

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:

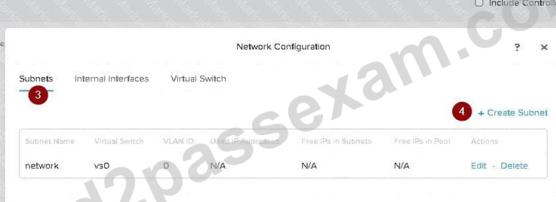
Create a new VLAN with ID 667 on the cluster. You can do this by logging in to Prism Element and going to Network Configuration > VLANs > Create VLAN. Enter 667 as the VLAN ID and a name for the VLAN, such as 667_VLAN.

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.



The screenshot shows the Nutanix Network Configuration dialog box. The table contains the following data:

Subnet Name	Virtual Switch	VLAN ID	Used IP Addresses	Free IPs in Subnet	Free IPs in Pool	Actions
network	vs0	0	N/A	N/A	N/A	Edit · Delete

Below the dialog box, the 'Create Subnet' configuration page is shown with the following fields:

- DHCP Settings (marked with 4)
- Domain Name Servers (Comma Separated): 34.82.231.220 (marked with 10)
- Domain Search (Comma Separated): cyberdyne.net (marked with 11)
- Domain Name: cyberdyne (marked with 12)
- TFTP Server Name: (empty)
- Boot File Name: (empty)
- IP Address Range: (empty)
- Cancel (button)
- Save (button)

Create Subnet

cyberdyne.net

Domain Name

cyberdyne

TFTP Server Name

Boot File Name

IP Address Pools ?

13

No pools added.

Override DHCP server ?

NUTANIX

Create Subnet

Boot File Name

IP Address Pools ?

14

Start Address: 192.168.9.100

End Address: 192.168.9.200

Override DHCP server ? 15

DHCP Server IP Address: 192.168.0.2 16

1

NUTANIX

NEW QUESTION # 24

Task 12

The application team is reporting performance degradation for a business-critical application that runs processes all day on Saturdays.

The team is requesting monitoring or processor, memory and storage utilization for the three VMs that make up the database cluster for the application: ORA01, ORA02 and ORA03.

The report should contain tables for the following:

At the cluster level, only for the current cluster:

The maximum percentage of CPU used

At the VM level, including any future VM with the prefix ORA:

The maximum time taken to process I/O Read requests

The Maximum percentage of time a VM waits to use physical CPU, out of the local CPU time allotted to the VM.

The report should run on Sundays at 12:00 AM for the previous 24 hours. The report should be emailed to appdev@cyberdyne.net when completed.

Create a report named Weekends that meets these requirements

Note: You must name the report Weekends to receive any credit. Any other objects needed can be named as you see fit. SMTP is not configured.

Answer:

Explanation:

See the Explanation for step by step solution.

Explanation:

To create a report named Weekends that meets the requirements, 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 Weekends 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 Cluster. Click Next.

Under the Custom Columns option, add the following variable: CPU Usage (%). Click Next.

Under the Aggregation option for CPU Usage (%), select Max. Click Next.

Under the Filter option, select Current Cluster from the drop-down menu. Click Next.

Click on Add to add this custom view to your report. Click Next.

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

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

Under the Custom Columns option, add the following variables: Name, I/O Read Latency (ms), VM Ready Time (%). Click Next.

Under the Aggregation option for I/O Read Latency (ms) and VM Ready Time (%), select Max. Click Next.

Under the Filter option, enter ORA* in the Name field. This will include any future VM with the prefix ORA.

Click Next.

Click on Add to add this custom view to your report. Click Next.

Under the Report Settings option, select Weekly from the Schedule drop-down menu and choose Sunday as the day of week. Enter 12:00 AM as the time of day. Enter appdev@cyberdyne.net as the Email Recipient.

Select CSV as the Report Output Format. Click Next.

Review the report details and click Finish.

NEW QUESTION # 25

Task 9

The application team has requested several mission-critical VMs to be configured for disaster recovery. The remote site (when added) will not be managed by Prism Central. As such, this solution should be built using the Web Console.

Disaster Recovery requirements per VM:

Mkt01

RPO: 2 hours

Retention: 5 snapshots

Fin01

RPO: 15 minutes

Retention: 7 days

Dev01

RPO: 1 day

Retention: 2 snapshots

Configure a DR solution that meets the stated requirements.

Any objects created in this item must start with the name of the VM being protected.

Note: the remote site will be added later

Answer:

Explanation:

See the Explanation for step by step solution.

Explanation:

To configure a DR solution that meets the stated requirements, you can follow these steps:

Log in to the Web Console of the source cluster where the VMs are running.

Click on Protection Domains on the left menu and click on Create Protection Domain.

Enter a name for the protection domain, such as PD_Mkt01, and a description if required. Click Next.

Select Mkt01 from the list of VMs and click Next.

Select Schedule Based from the drop-down menu and enter 2 hours as the interval. Click Next.

Select Remote Site from the drop-down menu and choose the remote site where you want to replicate the VM.

Click Next.

Enter 5 as the number of snapshots to retain on both local and remote sites. Click Next.

Review the protection domain details and click Finish.

Repeat the same steps for Fin01 and Dev01, using PD_Fin01 and PD_Dev01 as the protection domain names, and adjusting the interval and retention values according to the requirements.

A protection domain is a grouping of Virtual Machines for disaster recovery purposes. Enter a name (using alpha numeric characters only) for the protection domain you would like to create. You will then be guided into assigning **NUTANIX**™ Virtual Machines to it, and scheduling it.

Name

Mkt01-PD

Auto protect related entities. [?](#)

Protect Selected Entities (1) 

Previous

Next

NUTANIX™

The screenshot shows the Nutanix Prism Element interface. At the top, the Nutanix logo is visible with the text "Protected Entities (1)". Below this are two search fields: "Search by Entity Name" and "Search by CG Name". The main list area shows a single entity named "Mkt01" under a cluster named "CG". There is a checkbox next to "Mkt01". At the bottom of the list, there is a button labeled "Unprotect Selected Entities". At the very bottom of the screen, there is a blue "Next" button with a circular arrow icon.

NEW QUESTION # 26

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.

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 `svmips`; do echo "CVM: $i"; ssh $i "ls -ltr /home/nutanix/data/logs/*.FATAL"; done NCC Health Check: cluster_services_down_check (nutanix.com) Part2 Vlad Drac2023-06-05T13:22:00.861'll update this one with a smaller, if possible, command Update the default password for the root user on the node to match the admin user password echo -e "CHANGING ALL AHV HOST ROOT PASSWORDS.\nPlease input new password: "; read -rs password1; echo "Confirm new password: "; read -rs password2; if [ "$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
```

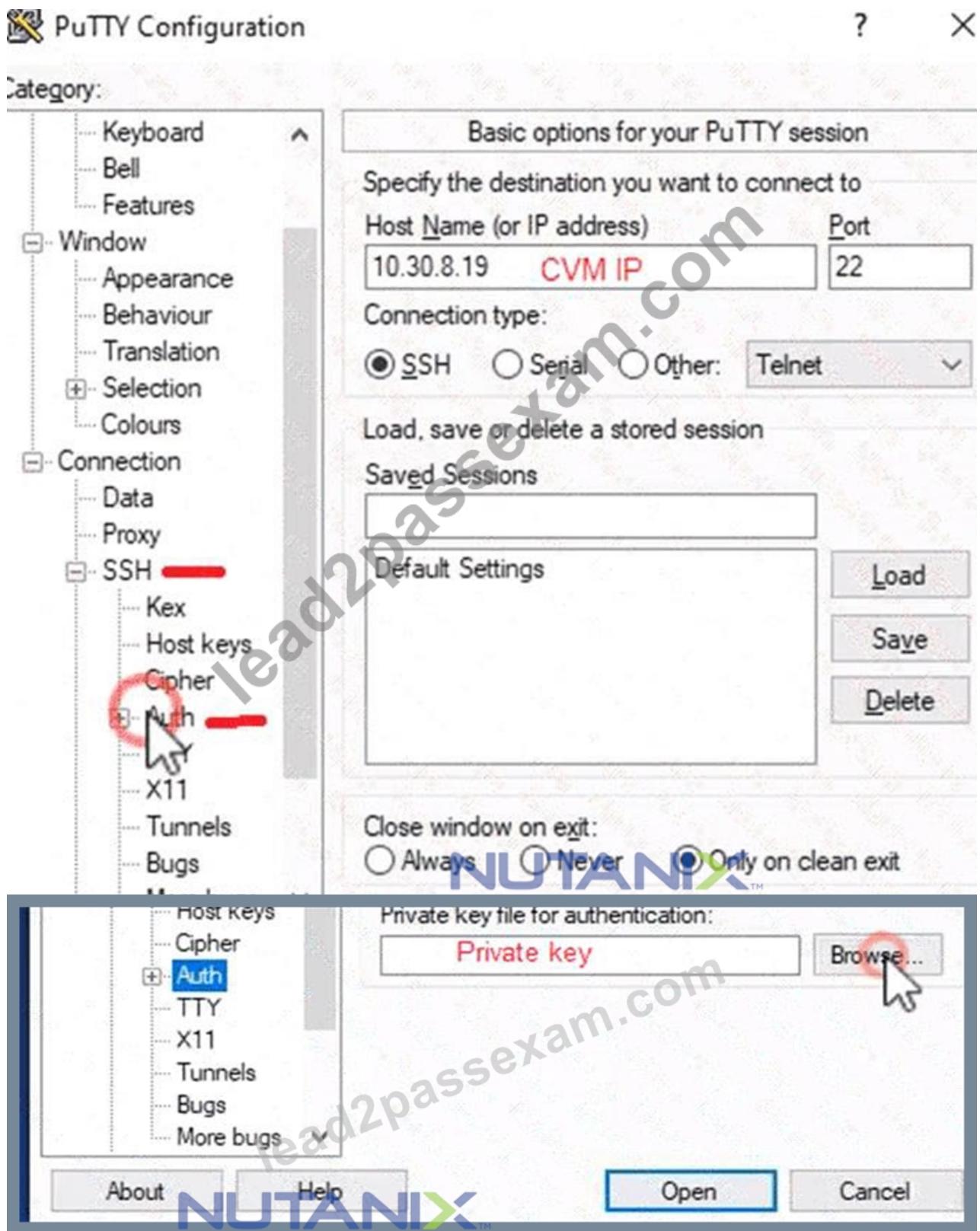
```
ncli cluster edit-hypervisor-security-params schedule=weekly
```

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>





NEW QUESTION # 27

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