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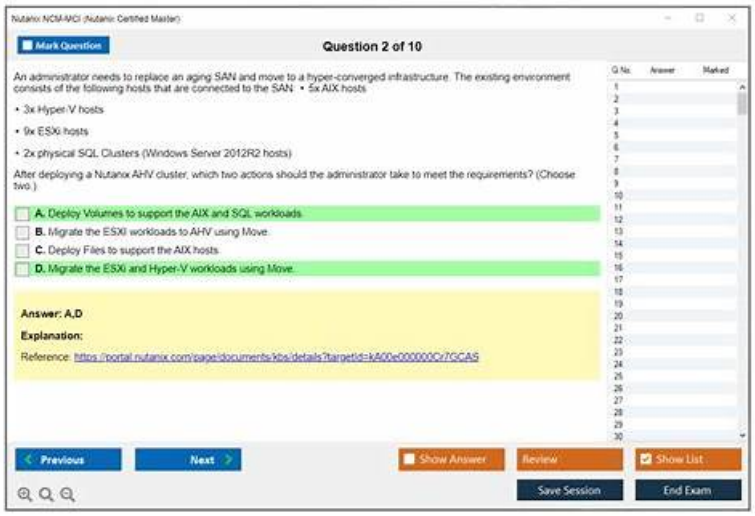

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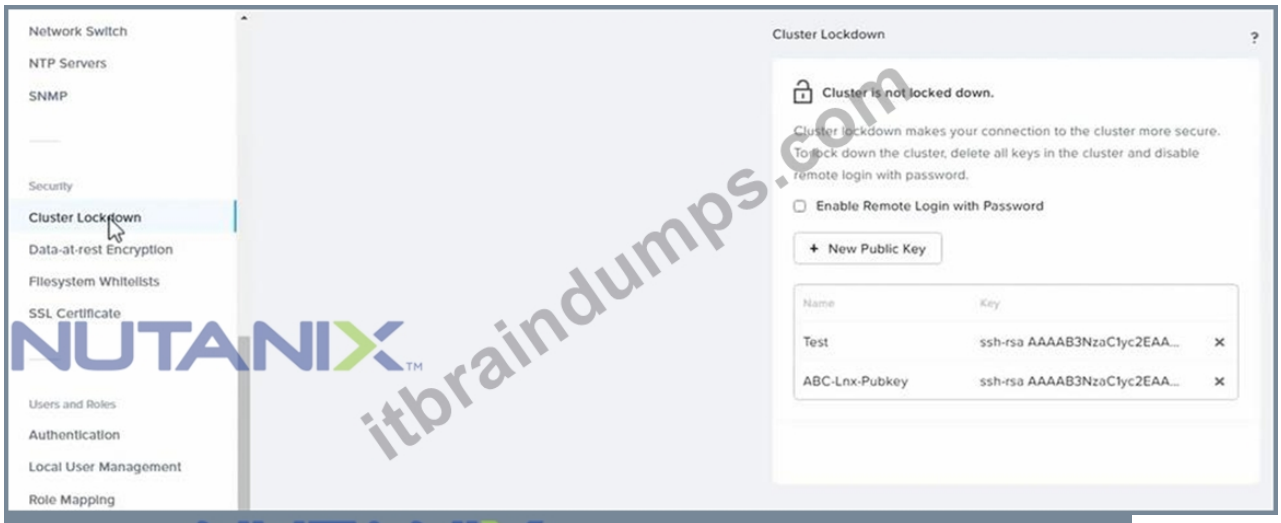
Nutanix Certified Master - Multicloud Infrastructure v6.10 Sample Questions (Q10-Q15):

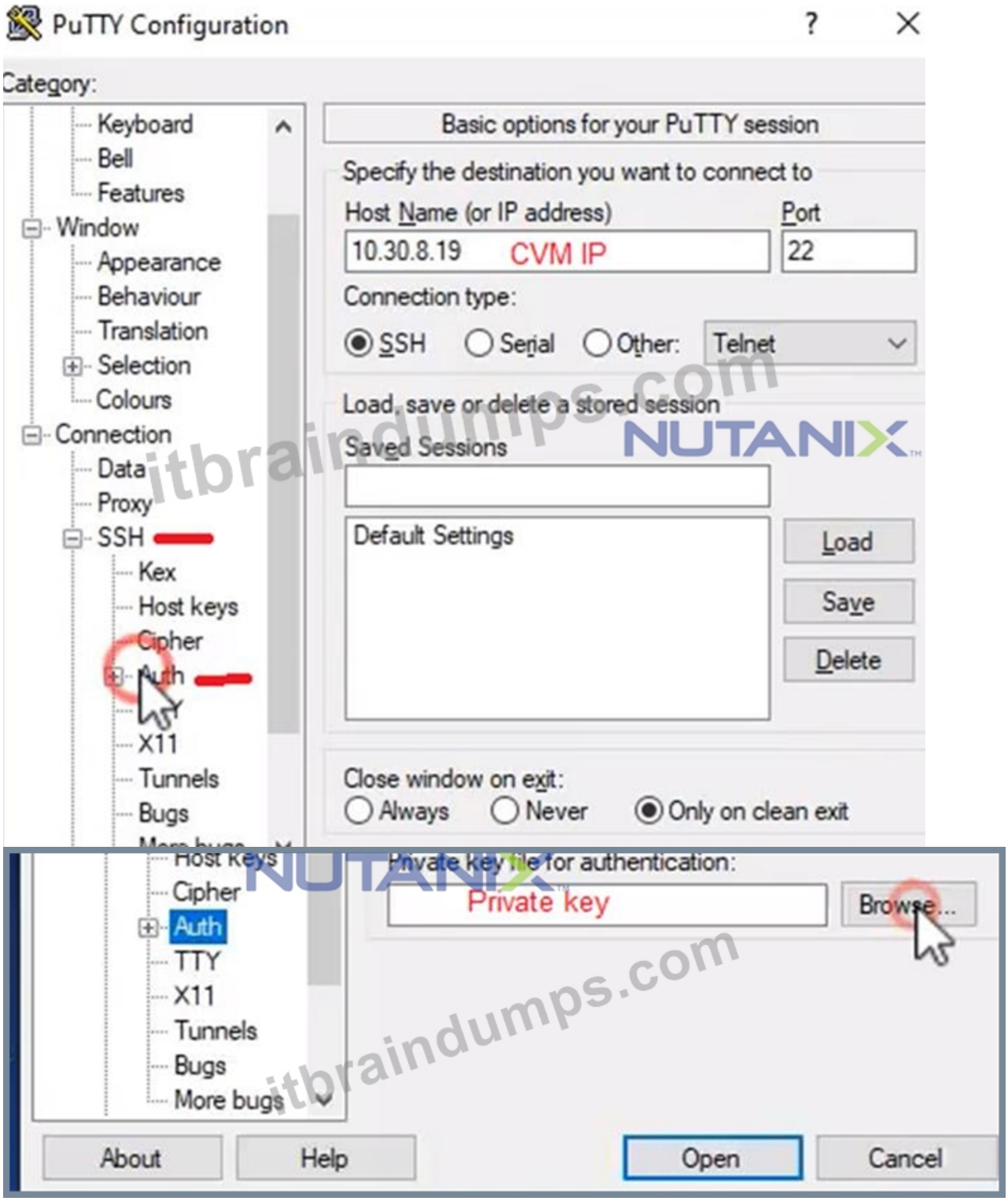
NEW QUESTION # 10
Task 9
Part1
An administrator logs into Prism Element and sees an alert stating the following:
Cluster services down on Controller VM (35.197.75.196)
Correct this issue in the least disruptive manner.
Part2
In a separate request, the security team has noticed a newly created cluster 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 `svmips`; do echo "CVM: $i"; ssh $i "ls -ltr /home/nutanix/data/logs/*.FATAL"; done NCC Health Check: cluster_services_down_check (nutanix.com) Part2 Update the default password for the root user on the node to match the admin user password echo -e "CHANGING ALL AHV HOST ROOT PASSWORDS.\nPlease input new password: "; read -rs password1; echo "Confirm new password: "; read -rs password2; if ["$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 # 11
Task 14
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 Virtual Machines to it, and scheduling it.

Name

Mkt01-PD

Auto protect related entities. ?

Protect Selected Entities (1)

Previous

Next


Protected Entities (1)
Search by Entity Name
Search by CG Name
Entity Name
CG
Mkt01
Mkt01
Unprotect Selected Entities
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NUTANIX


New Schedule
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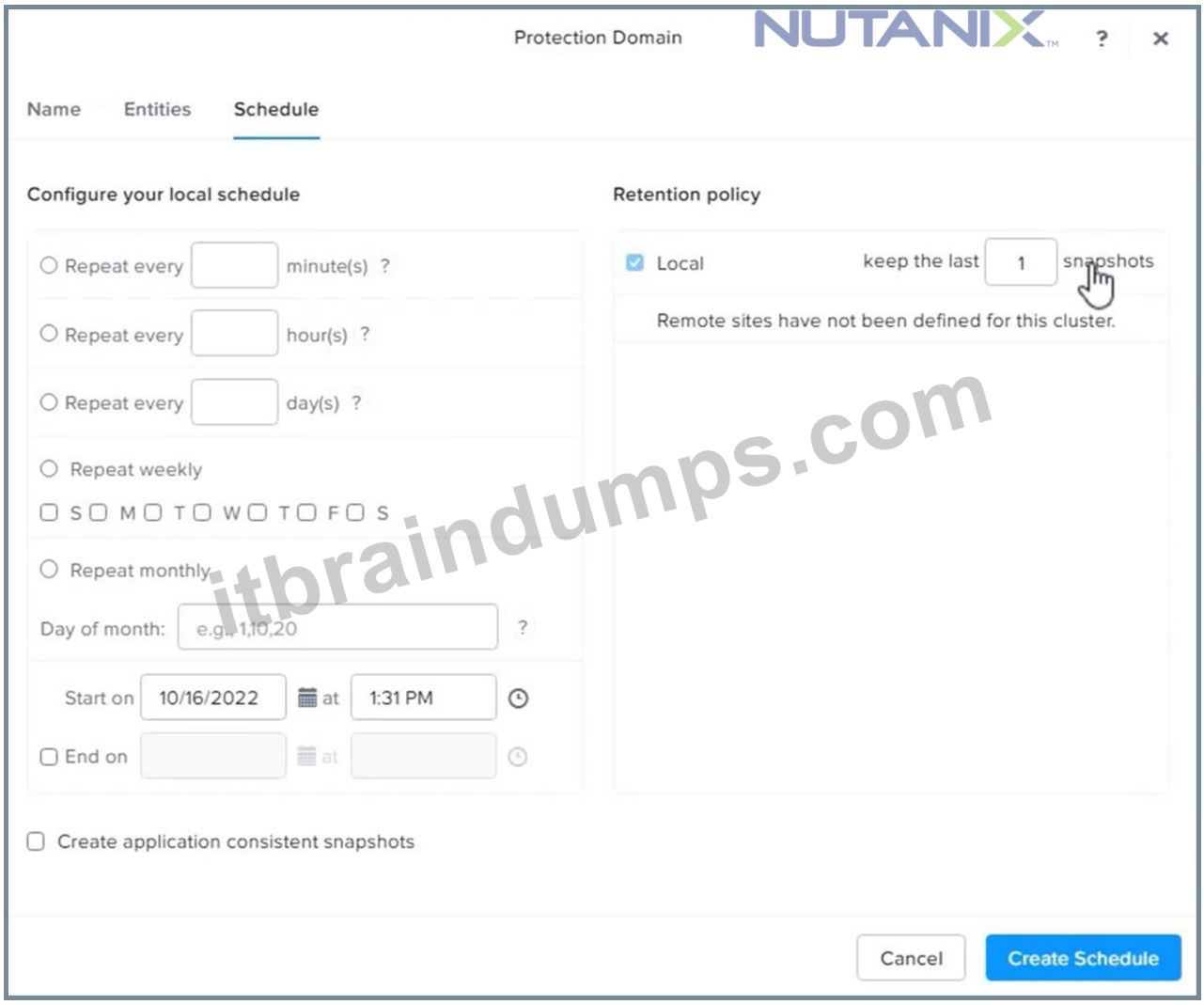
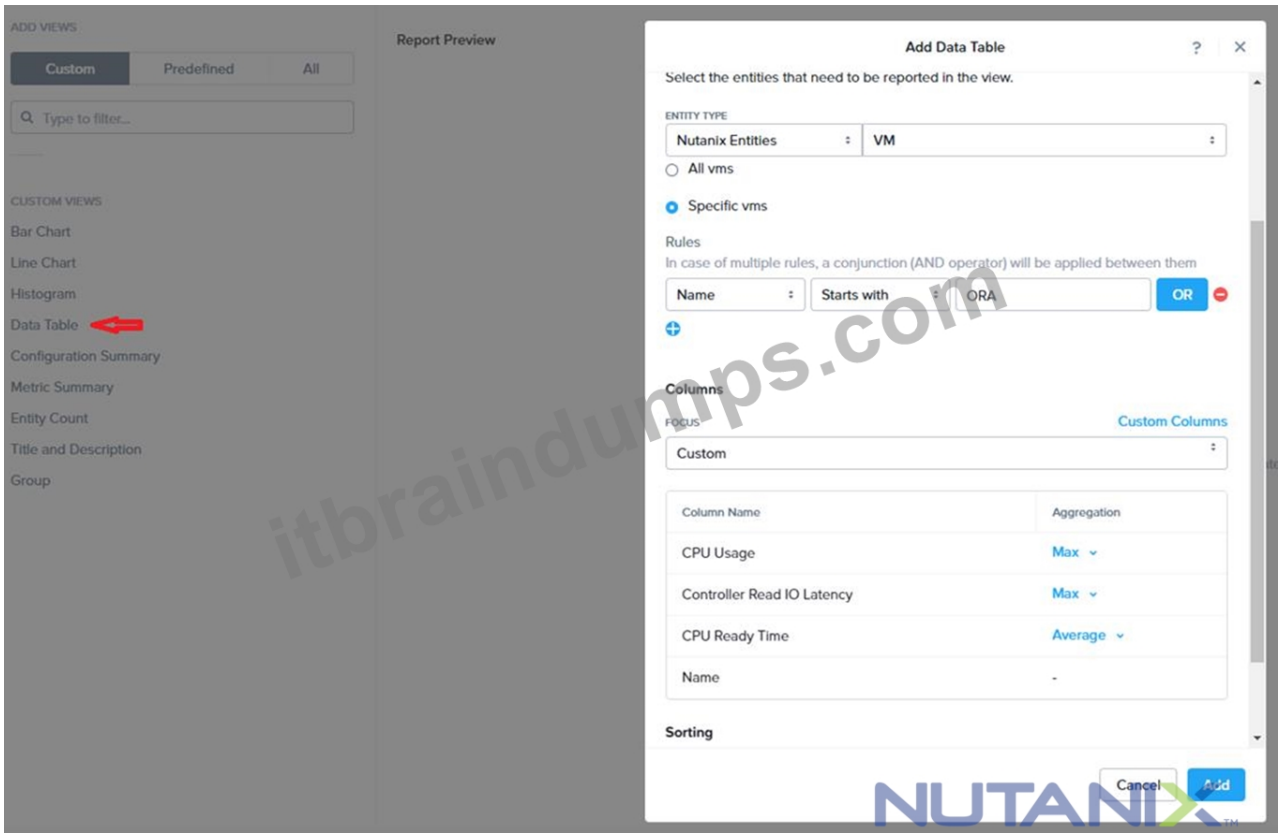


NEW QUESTION # 12
Task 13
The application team is reporting performance degradation for a business-critical application that runs processes all day on Saturdays.
The team is requesting monitoring or processor, memory and storage utilization for the three VMs that make up the database cluster for the 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 competed.
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.
A: 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.



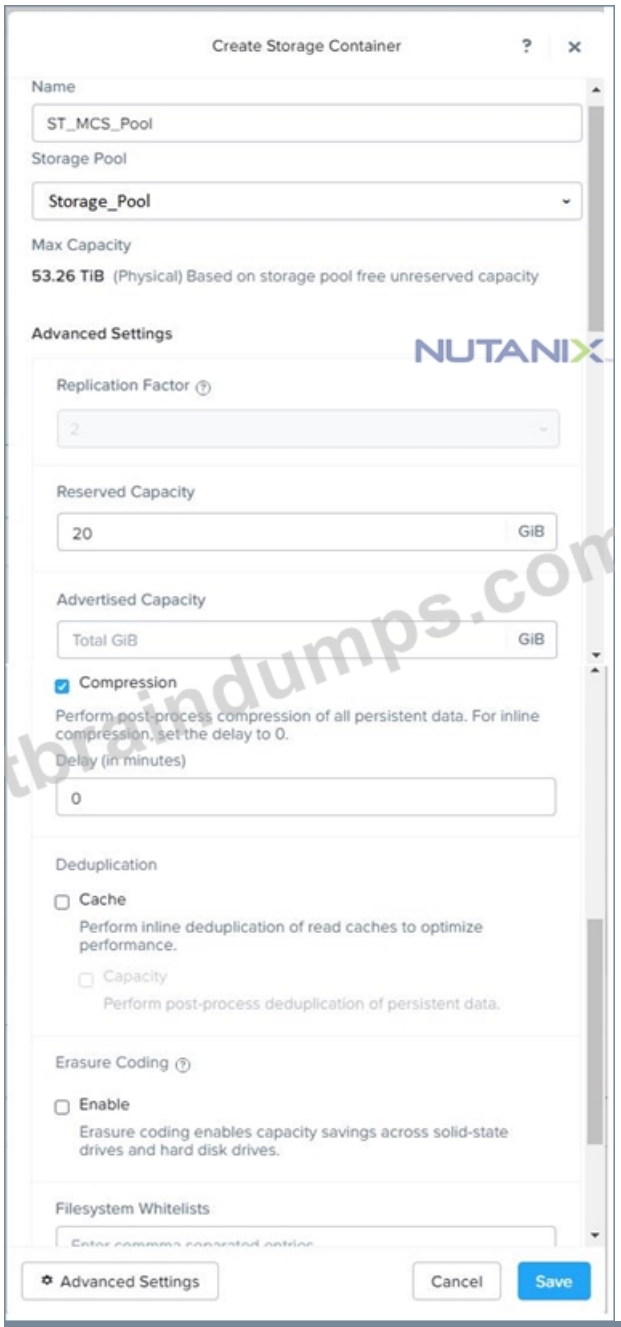
Answer:

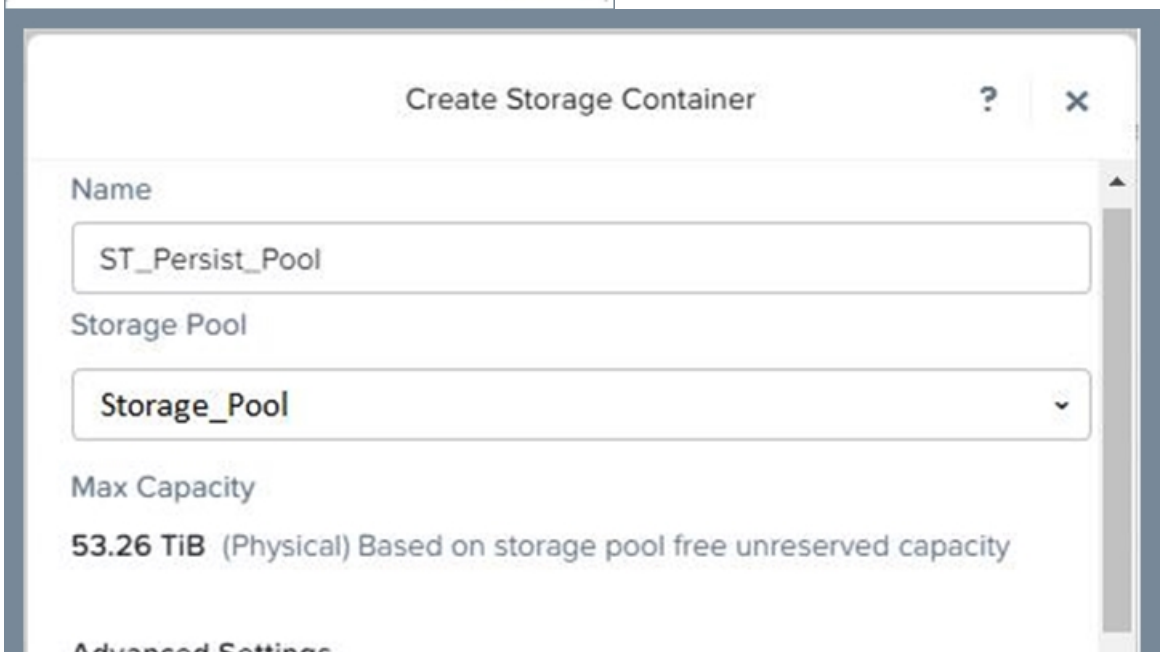
Explanation:
See the Explanation for step by step solution
Explanation:
To create a report named Weekends that meets the requirements, you can follow these steps:
Log in to Prism Central and click on Entities on the left menu.
Select Virtual Machines from the drop-down menu and click on Create Report.
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 OR

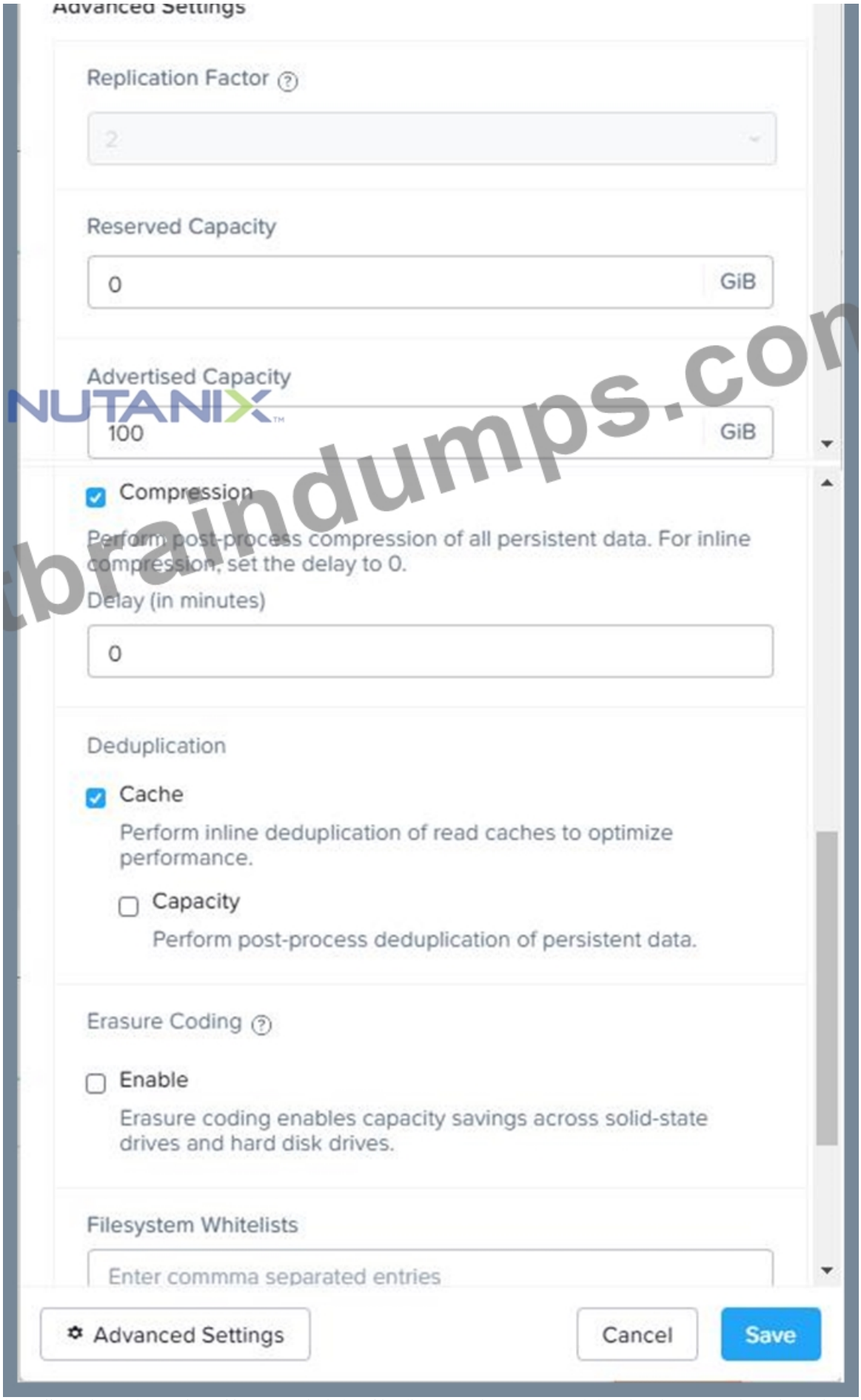
NEW QUESTION # 13
Task 2
An administrator needs to configure storage for a Citrix-based Virtual Desktop infrastructure.
Two VDI pools will be created
Non-persistent pool names MCS_Pool for tasks users using MCS Microsoft Windows 10 virtual Delivery Agents (VDAs)
Persistent pool named Persist_Pool with full-clone Microsoft Windows 10 VDAs for power users
20 GiB capacity must be guaranteed at the storage container level for all power user VDAs The power user container should not be able to use more than 100 GiB Storage capacity should be optimized for each desktop pool.
Configure the storage to meet these requirements. Any new object created should include the name of the pool(s) (MCS and/or Persist) that will use the object.
Do not include the pool name if the object will not be used by that pool.
Any additional licenses required by the solution will be added later.

Answer:

Explanation:
See the Explanation for step by step solution
Explanation:
To configure the storage for the Citrix-based VDI, you can follow these steps:
Log in to Prism Central using the credentials provided.
Go to Storage > Storage Pools and click on Create Storage Pool.
Enter a name for the new storage pool, such as VDI_Storage_Pool, and select the disks to include in the pool. You can choose any combination of SSDs and HDDs, but for optimal performance, you may prefer to use more SSDs than HDDs.
Click Save to create the storage pool.
Go to Storage > Containers and click on Create Container.
Enter a name for the new container for the non-persistent pool, such as MCS_Pool_Container, and select the storage pool that you just created, VDI_Storage_Pool, as the source.
Under Advanced Settings, enable Deduplication and Compression to reduce the storage footprint of the non-persistent desktops. You can also enable Erasure Coding if you have enough nodes in your cluster and want to save more space. These settings will help you optimize the storage capacity for the non-persistent pool.
Click Save to create the container.
Go to Storage > Containers and click on Create Container again.
Enter a name for the new container for the persistent pool, such as Persist_Pool_Container, and select the same storage pool, VDI_Storage_Pool, as the source.
Under Advanced Settings, enable Capacity Reservation and enter 20 GiB as the reserved capacity. This will guarantee that 20 GiB of space is always available for the persistent desktops. You can also enter 100 GiB as the advertised capacity to limit the maximum space that this container can use. These settings will help you control the storage allocation for the persistent pool.
Click Save to create the container.
Go to Storage > Datastores and click on Create Datastore.
Enter a name for the new datastore for the non-persistent pool, such as MCS_Pool_Datastore, and select NFS as the datastore type. Select the container that you just created, MCS_Pool_Container, as the source.
Click Save to create the datastore.
Go to Storage > Datastores and click on Create Datastore again.
Enter a name for the new datastore for the persistent pool, such as Persist_Pool_Datastore, and select NFS as the datastore type. Select the container that you just created, Persist_Pool_Container, as the source.
Click Save to create the datastore.
The datastores will be automatically mounted on all nodes in the cluster. You can verify this by going to Storage > Datastores and clicking on each datastore. You should see all nodes listed under Hosts.
You can now use Citrix Studio to create your VDI pools using MCS or full clones on these datastores. For more information on how to use Citrix Studio with Nutanix Acropolis, see Citrix Virtual Apps and Desktops on Nutanix or Nutanix virtualization environments.


Create Storage Container
Name
ST_MCS_Pool
Storage Pool
Storage_Pool
Max Capacity
53.26 TiB (Physical) Based on storage pool free unreserved capacity
Advanced Settings
NUTANIX
Replication Factor
2
Reserved Capacity
20
GiB
Advertised Capacity
Total GiB
GiB
Compression
Perform post-process compression of all persistent data. For inline compression, set the delay to 0.
Delay (in minutes)
0
Deduplication
Cache
Perform inline deduplication of read caches to optimize performance.
Capacity
Perform post-process deduplication of persistent data.
Erasure Coding
Enable
Erasure coding enables capacity savings across solid-state drives and hard disk drives.
Filesystem Whitelists
Advanced Settings
Cancel
Save


Create Storage Container
Name
ST_Persist_Pool
Storage Pool
Storage_Pool
Max Capacity
53.26 TiB (Physical) Based on storage pool free unreserved capacity

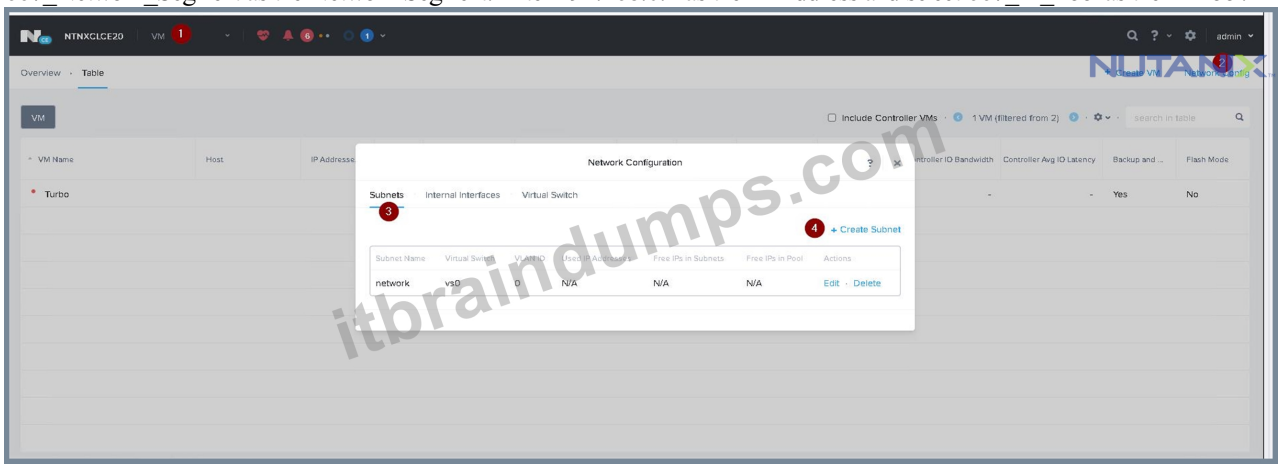


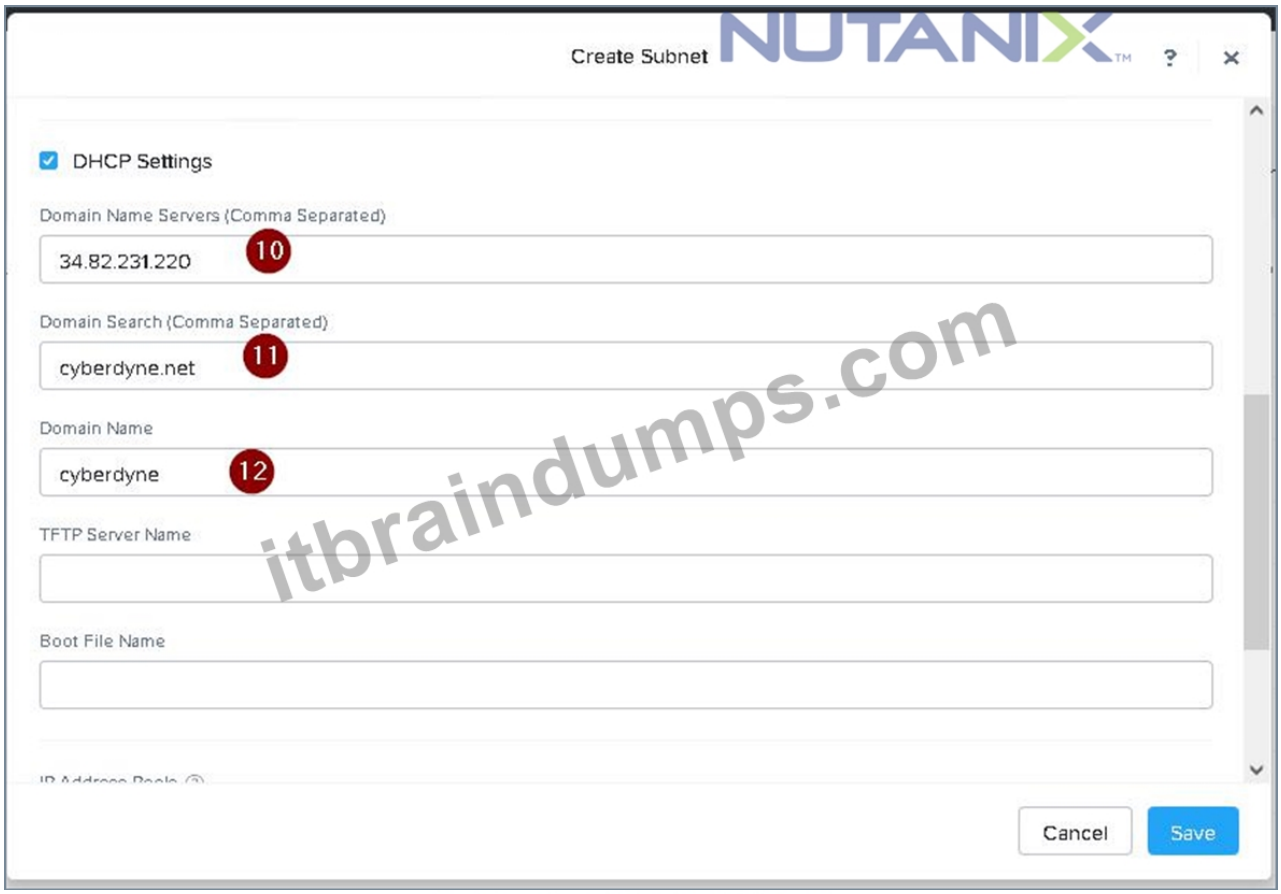
https://portal.nutanix.com/page/documents/solutions/details?targetId=BP-2079-Citrix-Virtual-Apps-and-Desktops:bp-nutanix-storage-configuration.html

NEW QUESTION # 14
Task 5
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.





NEW QUESTION # 15

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