



**Ganpat  
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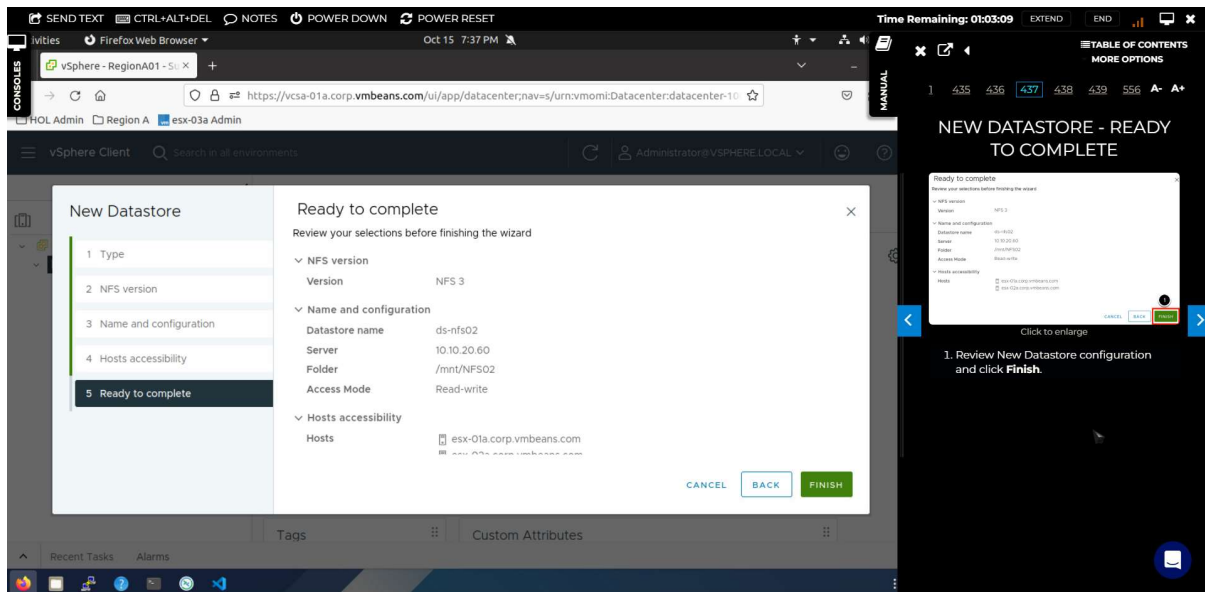
**Batch:51**

## **PRACTICAL 07**

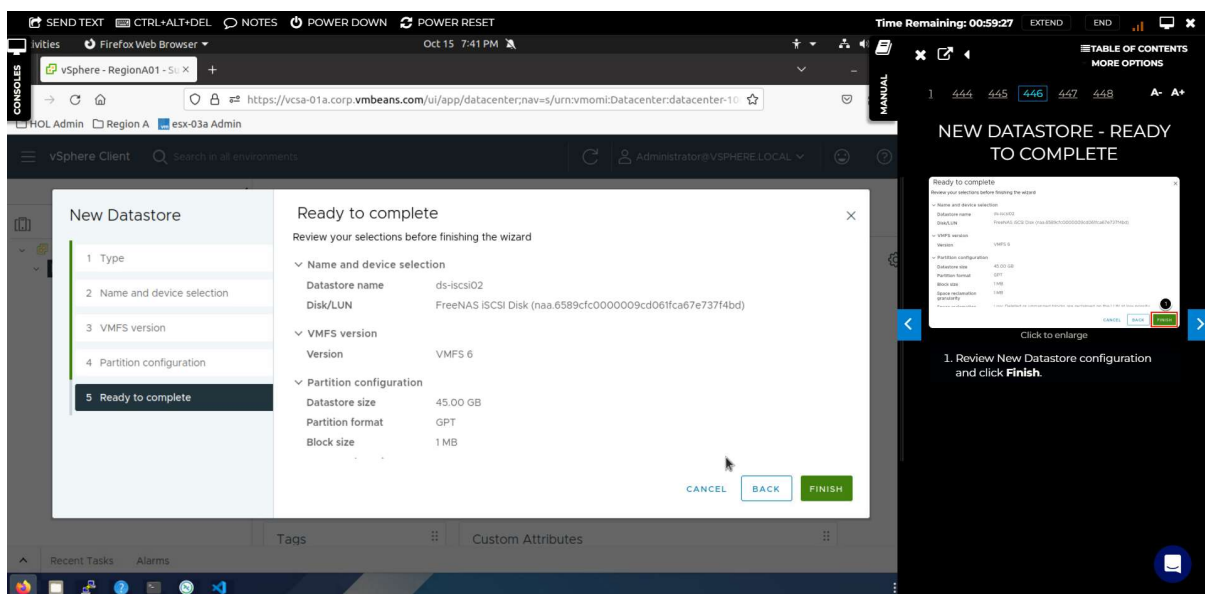
### **❖ Introduction (Monitoring and Managing) to vSphere Storage.**

#### **1. Storage option can be seen in Inventory, which shows the storage information for the respective regions :**

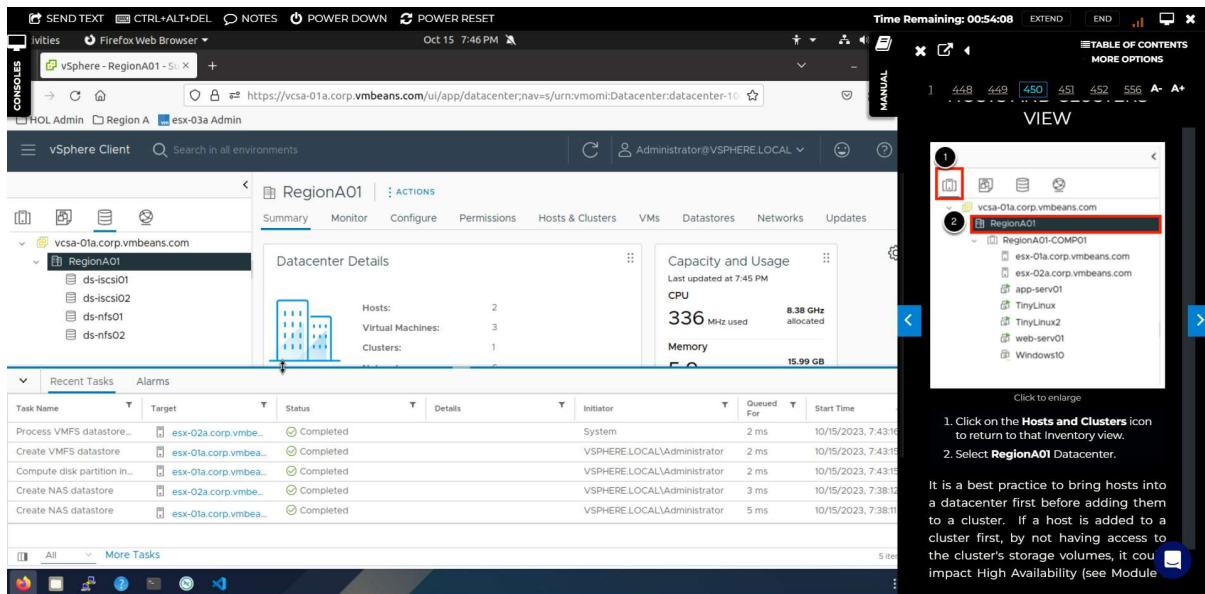
## **2. Add a new Datastore of NFS type via Actions option in Region01 with the following configurations :**



## **3. Similarly create another one of type VMFS with the given configurations :**



#### **4. The progress of creating the same can be seen in Recent Task and progress :**



**RegionA01 Datacenter Details**

Hosts	Virtual Machines	Clusters
2	3	1

**Capacity and Usage**

CPU: 336 Mhz used, 8.38 GHz allocated

Memory: 15.99 GB

**Recent Tasks**

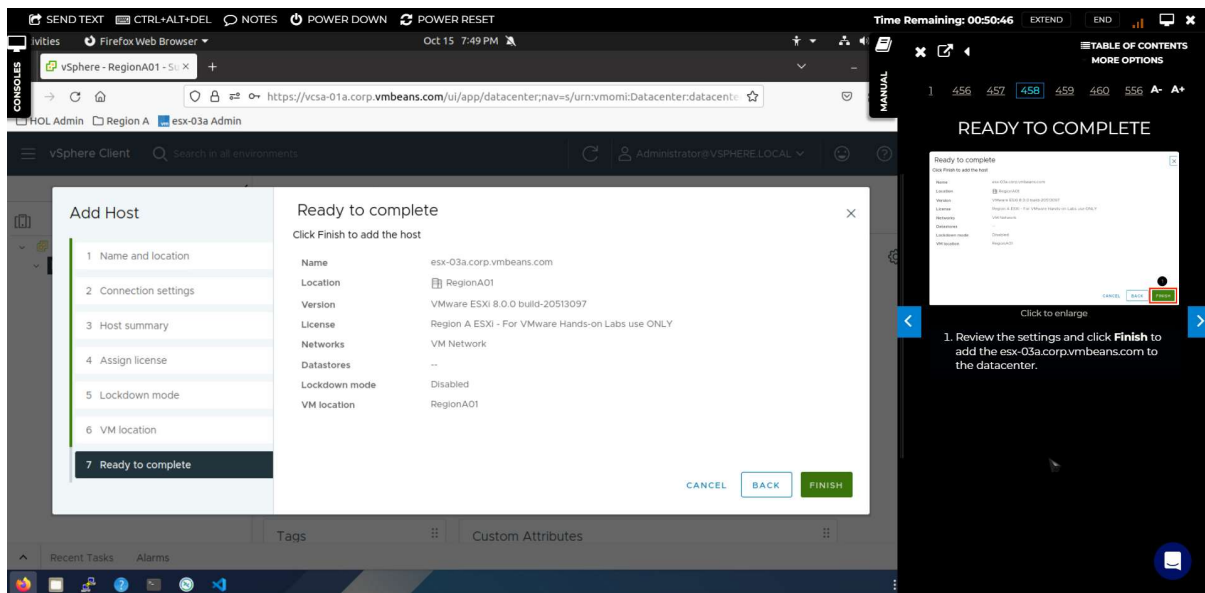
Task Name	Target	Status	Details	Initiator	Queued For	Start Time
Process VMFS datastore...	esx-02a.corp.vmb...	Completed		System	2 ms	10/15/2023, 7:43:11
Create VMFS datastore	esx-01a.corp.vmb...	Completed		VSPHERE.LOCAL\Administrator	2 ms	10/15/2023, 7:43:11
Compute disk partition in...	esx-01a.corp.vmb...	Completed		VSPHERE.LOCAL\Administrator	2 ms	10/15/2023, 7:43:11
Create NAS datastore	esx-02a.corp.vmb...	Completed		VSPHERE.LOCAL\Administrator	3 ms	10/15/2023, 7:38:12
Create NAS datastore	esx-01a.corp.vmb...	Completed		VSPHERE.LOCAL\Administrator	5 ms	10/15/2023, 7:38:12

**VIEW**

1. Click on the **Hosts and Clusters** icon to return to that Inventory view.
2. Select **RegionA01** Datacenter.

It is a best practice to bring hosts into a datacenter first before adding them to a cluster. If a host is added to a cluster first, by not having access to the cluster's storage volumes, it could impact High Availability (see Module

#### **5. Now, add new host with given configurations in Region01 via Actions in Hosts and Cluster pane :**



**Add Host**

1. Name and location
2. Connection settings
3. Host summary
4. Assign license
5. Lockdown mode
6. VM location
7. Ready to complete

**Ready to complete**

Click Finish to add the host

Name	esx-03a.corp.vmb...
Location	RegionA01
Version	VMware ESXi 8.0.0 build-20513097
License	Region A ESXi - For VMware Hands-on Labs use ONLY
Networks	VM Network
Datastores	--
Lockdown mode	Disabled
VM location	RegionA01

**READY TO COMPLETE**

Review the settings and click **Finish** to add the esx-03a.corp.vmb...

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## » Conclusion :

In this practical session, we delved into the fundamentals of monitoring and managing storage within a vSphere virtualization environment. Here's a brief conclusion of the key activities:

- 1. Storage Inventory :** We began by exploring the Storage option within the vSphere Inventory. This section provides a comprehensive overview of storage resources available in different regions.
- 2. Adding NFS Datastore :** We demonstrated the process of adding a new NFS (Network File System) Datastore to Region01. This involved specifying various configurations to enable vSphere to access and utilize the NFS storage.
- 3. Creating VMFS Datastore :** Similarly, we created another Datastore, this time of the VMFS type. We configured this Datastore with the necessary settings to ensure compatibility with the virtualization environment.
- 4. Tracking Progress :** Throughout these actions, we monitored the progress of these tasks by referencing the Recent Tasks and Progress section, allowing us to stay informed about the status of storage-related activities.
- 5. Adding a New Host :** To expand the virtualized environment, we added a new host to Region01. This involved specifying configurations and settings for the host, which is crucial for its integration into the vSphere infrastructure.

By following these steps, administrators gain the foundational skills necessary for managing and monitoring storage resources in a vSphere environment. This is essential for optimizing performance, scalability, and resource allocation in virtualization setups.