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Virtualization Practical 7

## Practical 7 : Introduction (Monitoring and Managing) to vSphere Storage

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

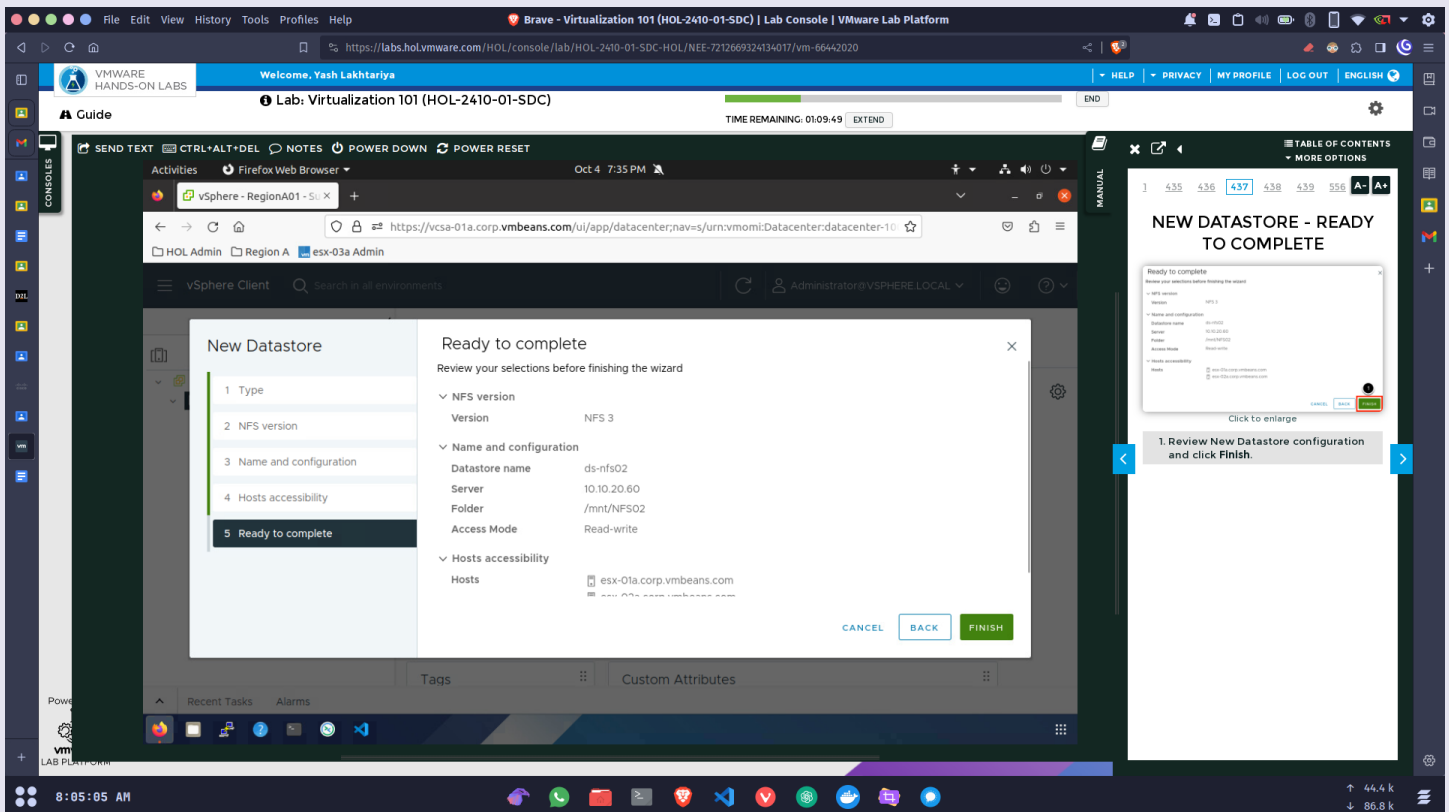
The screenshot displays the VMware vSphere Client interface within a Brave browser window. The URL bar shows the path to the vSphere Client. The interface is divided into several sections:

- Left Sidebar:** Contains the 'vSphere Client' navigation pane with a search bar and a list of environments. 'RegionA01' is selected under 'vcsa-01a.corp.vmbeans.com'.
- Main Panel:** Displays the 'RegionA01' datacenter details. It includes a 'Summary' tab with 'Datacenter Details' (Hosts: 2, Virtual Machines: 3, Clusters: 1, Networks: 6, Datastores: 2) and 'Capacity and Usage' (CPU: 247 MHz used, 8.38 GHz allocated; Memory: 5.83 GB used, 15.99 GB allocated; Storage: 20.59 GB used, 90.53 GB allocated).
- Right Panel:** Titled 'NEW DATASTORE', it provides instructions for creating a new vSphere NFS Datastore using a pre-provisioned NFS mount. The instructions are numbered: 1. Select Actions, 2. Select Storage, 3. Select New Datastore.

The bottom of the screen shows the Windows taskbar with the time 7:59:18 AM and various system icons.

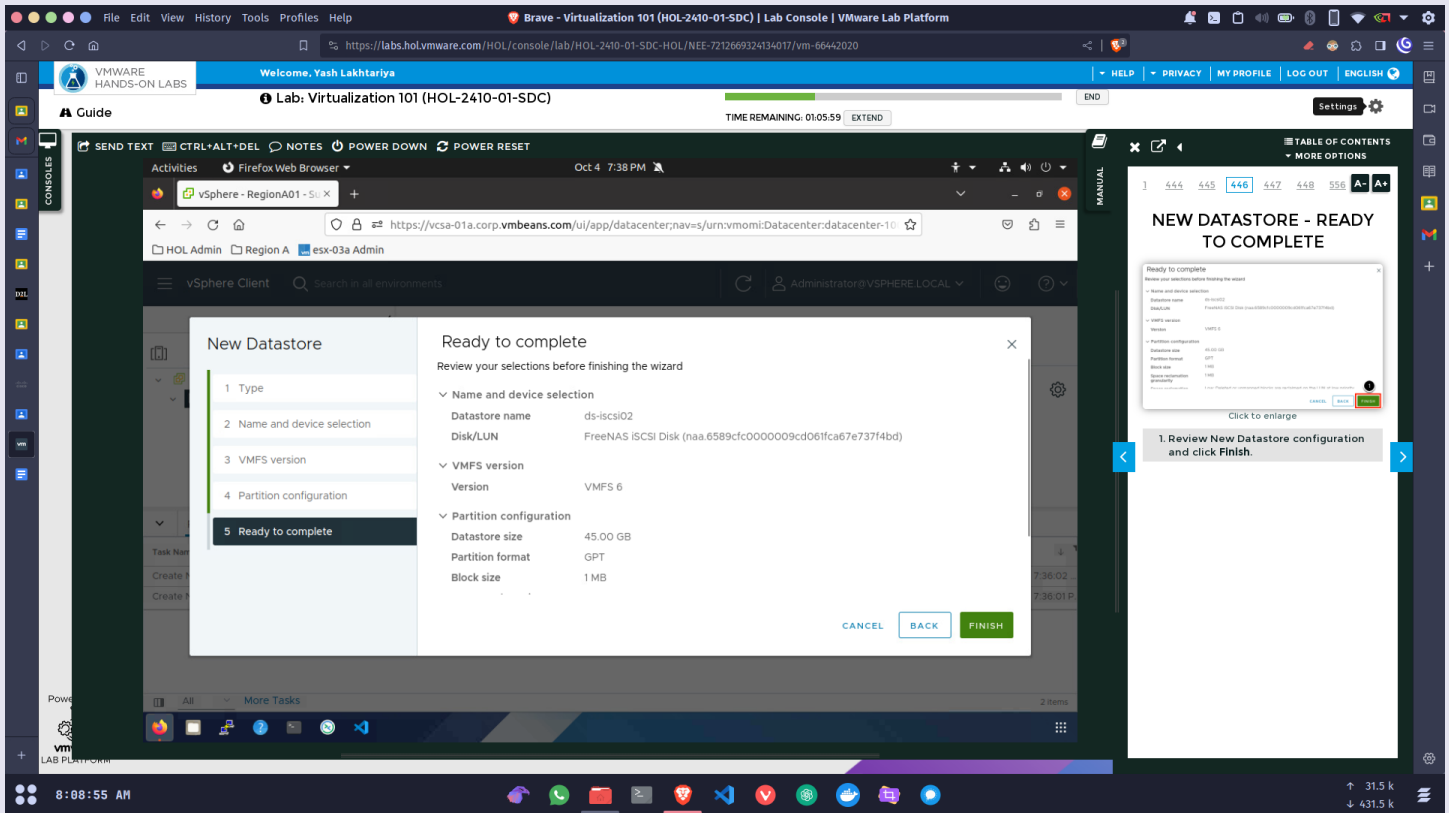
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2. Add a new Datastore of NFS type via Actions option in Region01 with the following configurations.



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



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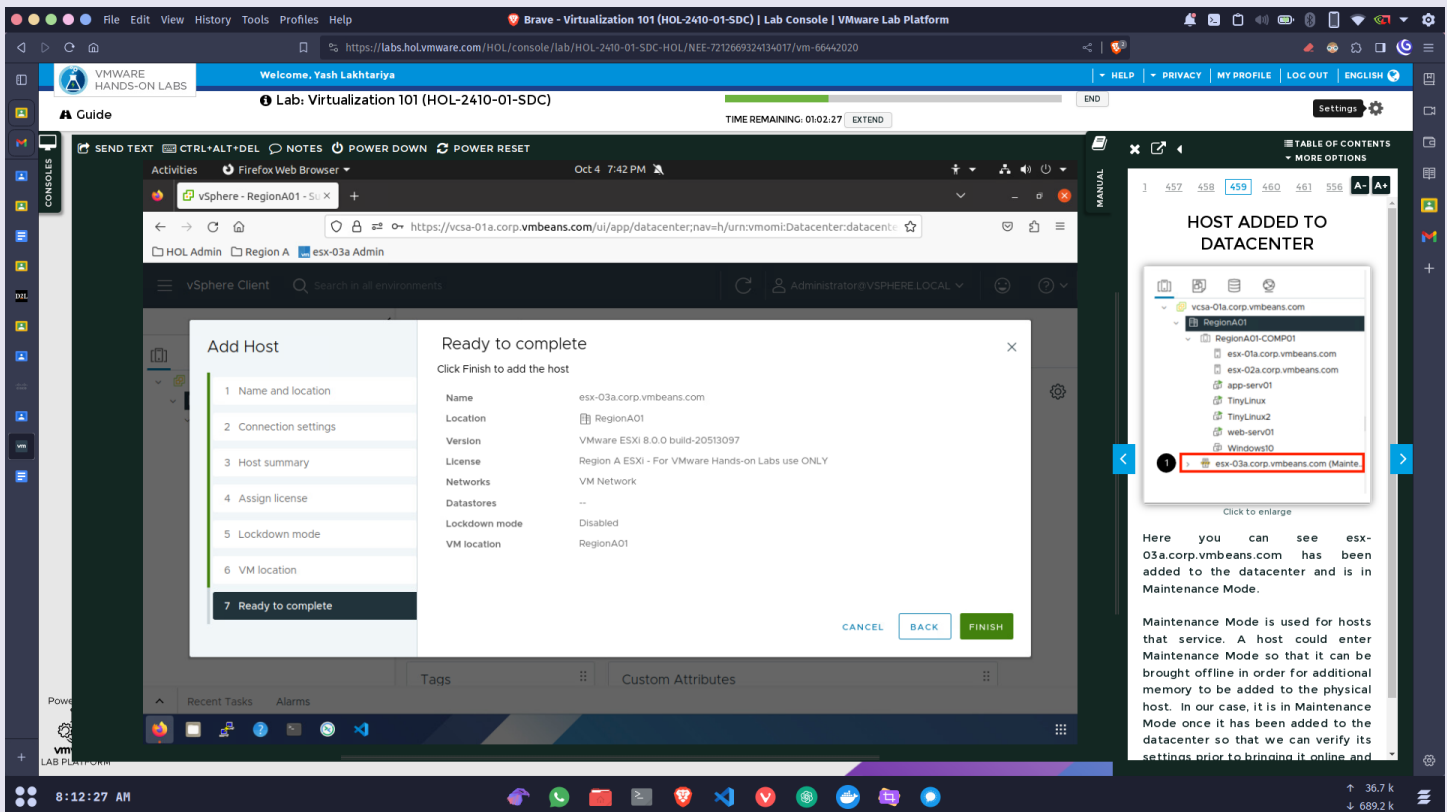
4. The progress of creating the same can be seen in Recent Task and progress.

The screenshot displays the VMware vSphere Client interface within a Brave browser window. The main content area shows the 'RegionA01' datacenter view, which includes a 'Datacenter Details' section with a bar chart and a 'Capacity and Usage' section showing CPU and memory usage. A 'Recent Tasks' table is visible at the bottom, listing various tasks such as 'Process VMFS datastore...', 'Create VMFS datastore', 'Compute disk partition in...', 'Create NAS datastore', and 'Create NAS datastore', all of which are marked as 'Completed'. On the right side, a 'HOSTS AND CLUSTERS VIEW' sidebar is open, showing a list of hosts and clusters, including 'RegionA01-COMPO1', 'esx-01a.corp.vmbeans.com', 'esx-02a.corp.vmbeans.com', 'app-serv01', 'TinyLinux', 'TinyLinux2', 'web-serv01', and 'Windows10'. The interface also includes a top navigation bar with options like 'HELP', 'PRIVACY', 'MY PROFILE', 'LOG OUT', and 'ENGLISH', and a bottom status bar showing the time as 8:10:02 AM.

Task Name	Target	Status	Details	Initiator	Queued For	Start Time
Process VMFS datastore...	esx-02a.corp.vmbe...	Completed		System	2 ms	10/04/2023, 7:39:47
Create VMFS datastore	esx-01a.corp.vmbea...	Completed		VSPHERE.LOCAL\Administrator	2 ms	10/04/2023, 7:39:46
Compute disk partition in...	esx-01a.corp.vmbea...	Completed		VSPHERE.LOCAL\Administrator	3 ms	10/04/2023, 7:39:46
Create NAS datastore	esx-02a.corp.vmbe...	Completed		VSPHERE.LOCAL\Administrator	3 ms	10/04/2023, 7:36:02
Create NAS datastore	esx-01a.corp.vmbea...	Completed		VSPHERE.LOCAL\Administrator	5 ms	10/04/2023, 7:36:01

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



**Conclusion :** This lab ensures the basic understanding of the Storage in VMware ESXi environment. In vSphere, datastores can be created, removed or managed via the Storage pane of Inventory. Multiple hosts can mount the datastore(s) and different types of datastore including NFS, VMFS, etc. are provided in VMware ESXi for efficiency.