

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 51
Virtualization Practical 10

Practical 10 : Creating vSphere datastore Cluster

1. Create a new database cluster in RegionA01 with the following configurations.

The screenshot displays the VMware vSphere Client interface within a web browser. The main window shows the 'vSphere Client' dashboard for 'RegionA01'. A 'NEW DATASTORE CLUSTER' wizard is open on the right side of the screen. The wizard is in the 'RegionA01' step, where the user is prompted to select a storage. The 'New Datastore Cluster' option is highlighted. The interface also shows the 'Capacity and Usage' section with CPU, Memory, and Storage details.

Capacity and Usage
Last updated at 6:56 PM

Resource	Used	Allocated
CPU	424 MHz	7.98 GHz
Memory	5.82 GB	16 GB
Storage	20.64 GB	90.93 GB

NEW DATASTORE CLUSTER

1. Right Click on RegionA01
2. Select Storage
3. Click New Datastore Cluster...

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 51
Virtualization Practical 10

The screenshot displays a VMware Hands-on Lab environment. The main window shows the 'New Datastore Cluster' wizard in the vSphere Client. The wizard is at the 'Ready to Complete' step, showing the following configuration:

- Name and Location:** Datastore cluster name: DatastoreCluster-01, Datastore type: NFS 3, Storage DRS: Enabled.
- Storage DRS Automation:** Cluster automation level: Fully Automated, Space balance automation level: Use cluster settings, I/O balance automation level: Use cluster settings.

The 'Ready to Complete' step is highlighted in the left sidebar. Below the wizard, there are tabs for 'Recent Tasks', 'Alarms', 'Tags', and 'Custom Attributes'. To the right of the main window, a 'NEW DATASTORE CLUSTER-SUMMARY' page is visible, showing a table of contents and a list of recent tasks. The bottom of the screen shows a taskbar with various application icons and a system clock indicating 7:27:17 AM.

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 51
Virtualization Practical 10

2. Track the progress of creating the data cluster via Recent Tasks pane.

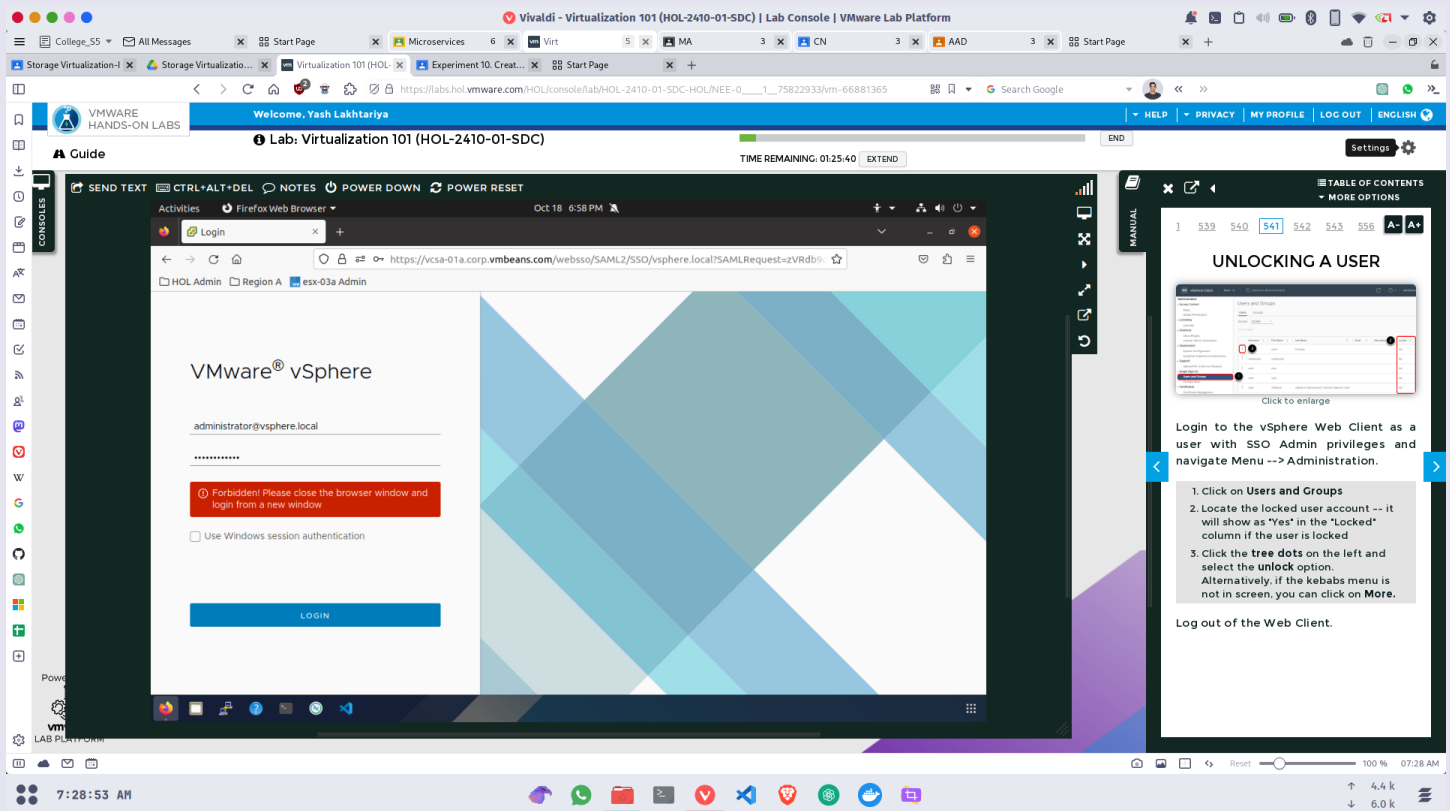
The screenshot shows the VMware vSphere Client interface. The top navigation bar includes a welcome message for Yash Lakhtariya and a warning banner: "Your network connection is degraded. Console experience may slow." The main content area displays the vSphere Client web interface for RegionA01. The left sidebar shows the navigation tree with 'RegionA01' and 'DatastoreCluster-01' selected. The 'Recent Tasks' pane at the bottom shows a list of completed tasks:

Task Name	Target	Status	Details	Initiator	Quarantined For	Start Time
Move datastores into a d...	DatastoreCluster-01	Completed		VSPHERE.LOCAL\Administrator	6 ms	10/18/2023, 6:57:23 PM
Configure Storage DRS	DatastoreCluster-01	Completed		VSPHERE.LOCAL\Administrator	4 ms	
Create a datastore cluster	RegionA01	Completed		VSPHERE.LOCAL\Administrator	12 ms	10/18/2023, 6:57:23 PM

The right sidebar shows a 'CONCLUSION' section with the text: "Leveraging vSphere Datastore Clusters in your vSphere environment can help to ensure datastores are filled evenly and I/O is spread out across the group of datastores in the cluster. Storage DRS can automate the initial placement of new virtual machines and adjust virtual machine placement to maintain an even distribution of I/O across the datastore cluster."

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 51
Virtualization Practical 10

3. Now, try about 3 times to login in vSphere using false credentials.



As seen, the user will be locked due to continuously retrying with false credentials. In this type of cases, SSO can be used to change the password of admin user.

Conclusion : Hence, this lab ensures the practical concepts of creating and managing the database cluster, shared among multiple VMs and the use of SSO for resetting the credentials of admin user in case of any problems with it.