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Group 2

## Title - Migrating a Virtual Machine

### Step1 : Select Region

The screenshot displays the VMware Hands-on Labs environment. The top navigation bar shows the user is logged in as 'ABHISHEK RAJ'. The main interface is the vSphere Client, showing the 'Host Details' for 'esx-01a.corp.vmbeans.com'. The 'Host Details' section includes a table with the following information:

Host Details	
Hypervisor	VMware ESX/ESXi 6.0 U3
Model	VMware7.1
Processor Type	Intel(R) Xeon(R) Gold 6340 CPU @ 2.20GHz
Logical Processors	2
NICs	4
Virtual Machines	1
State	Connected
Uptime	17 minutes

To the right of the 'Host Details' section, there is a 'Capacity and Usage' section showing the following metrics:

Capacity and Usage	
CPU	248 MHz used / 8.88 GHz allocated
Memory	1.9 GB used / 8 GB allocated
Storage	22.32 GB used / 90.52 GB allocated

On the right side of the interface, there is a 'MANUAL' panel titled 'EDIT CLUSTER SETTINGS'. It contains a 'TABLE OF CONTENTS' and a list of steps for migrating virtual machines:

1. Select RegionA01-COMP01
2. Click the Configure tab
3. Under the "... " option, click on the Edit button

The manual also includes a text box stating: 'We will disable DRS and then migrate all of the virtual machines esx-01a.corp.vmbeans.com hosts over to esx-02a.corp.vmbeans.com. This will also help prepare us for the next lesson on Performance.'

## Step2 : Configure tab

The screenshot shows the VMware vSphere Client interface. The main window displays the configuration tab for the cluster 'RegionA01-COMP01'. The 'vSphere DRS' section is highlighted, showing that DRS is currently 'Turned OFF'. A sidebar on the right contains a 'TABLE OF CONTENTS' and a 'MORE OPTIONS' section. A manual overlay on the right side of the screen provides instructions for editing cluster settings.

**EDIT CLUSTER SETTINGS**

We will disable DRS and then migrate all of the virtual machines **esx-01a.corp.vmbeans.com** hosts over to **esx-02a.corp.vmbeans.com**. This will also help prepare us for the next lesson on Performance.

1. Select **RegionA01-COMP01**
2. Click the **Configure** tab
3. Under the "...\*" option, click on the **Edit** button

## Step3 : Click on the Edit option in “...” menu

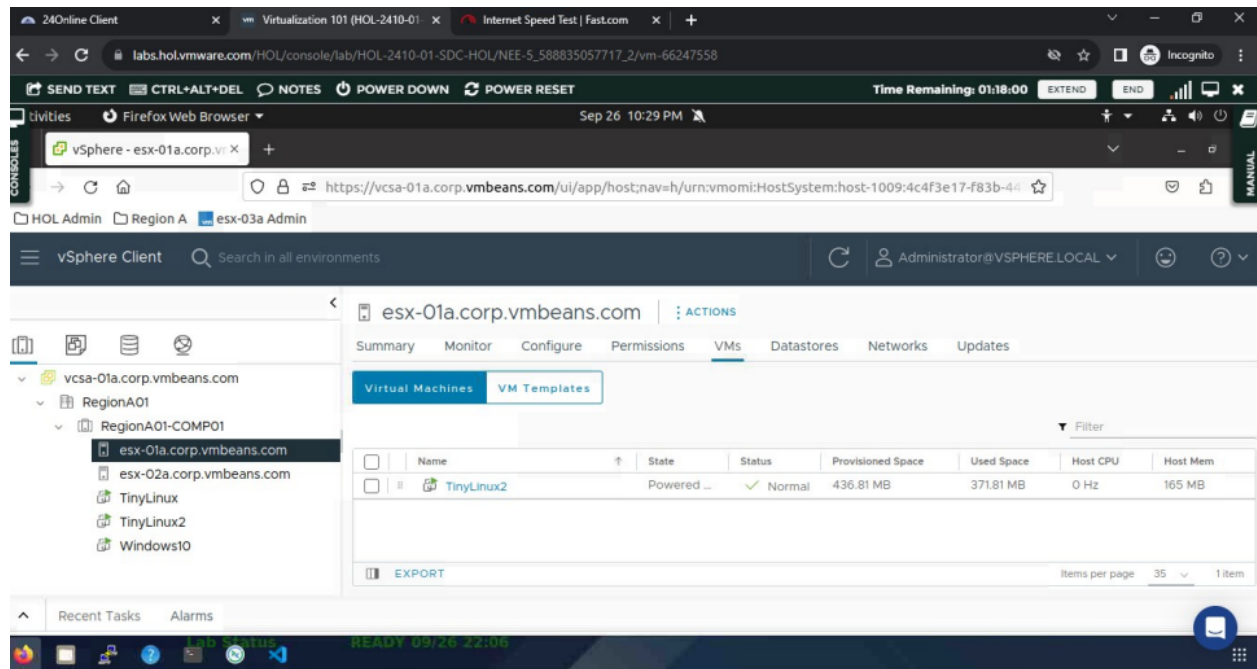
The screenshot shows the 'Edit Cluster Settings' dialog box for 'RegionA01-COMP01'. The 'Automation' tab is selected, and the 'vSphere DRS' switch is being toggled from 'On' to 'Off'. The 'Migration Threshold' is set to 'Conservative (Less Frequent vMotion)'. The 'Virtual Machine Automation' section is also visible.

**DISABLE DRS**

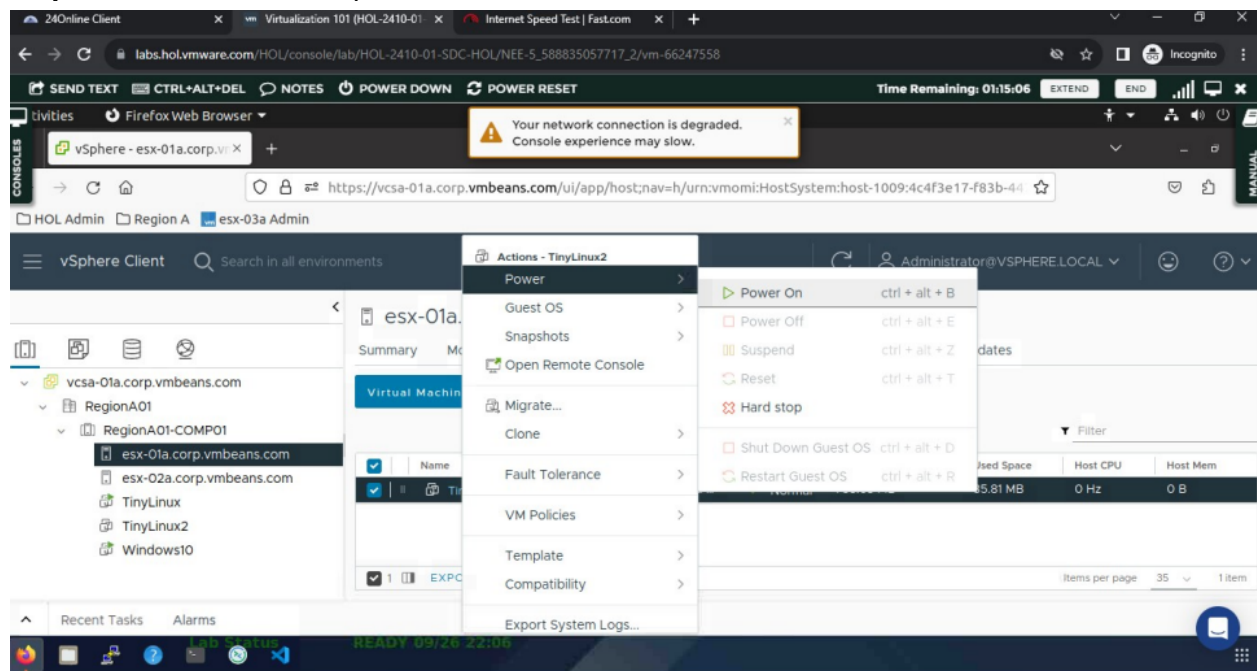
1. Flip the switch to disable vSphere DRS.
2. Click OK

By disabling DRS, this will prevent the virtual machines from being migrate back to esx-01a.corp.vmbeans.com

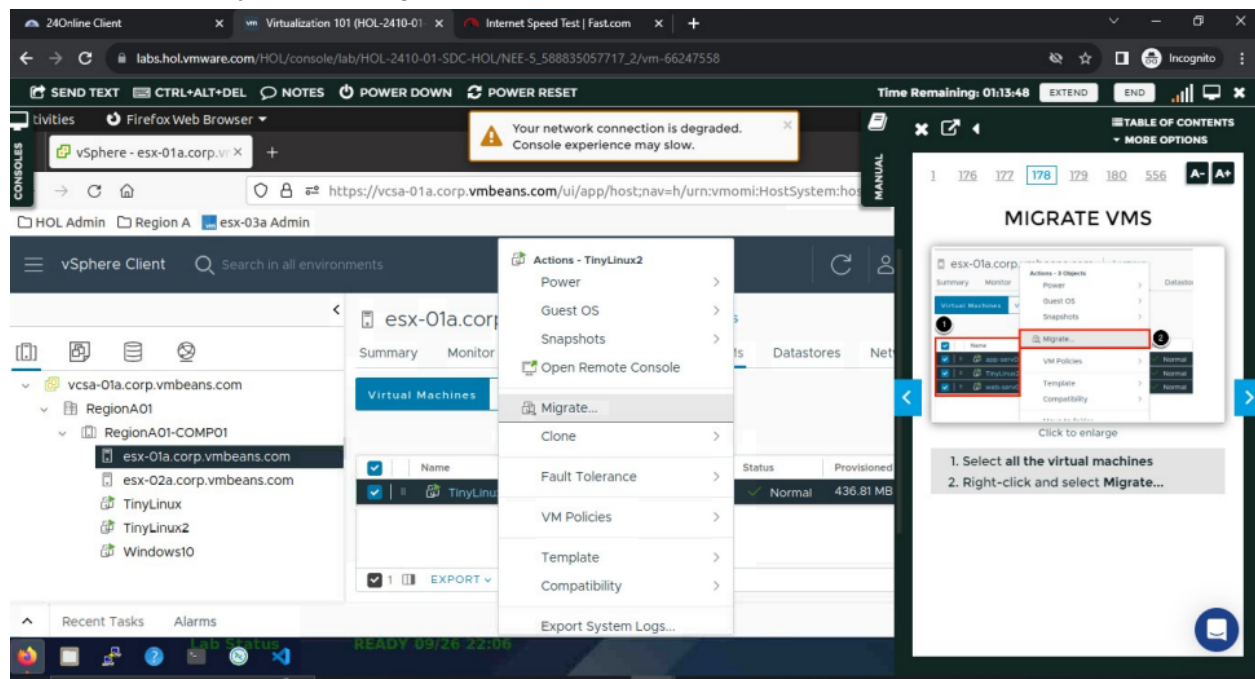
**Step4 :** Flip the switch to disable vSphere DRS & click ok



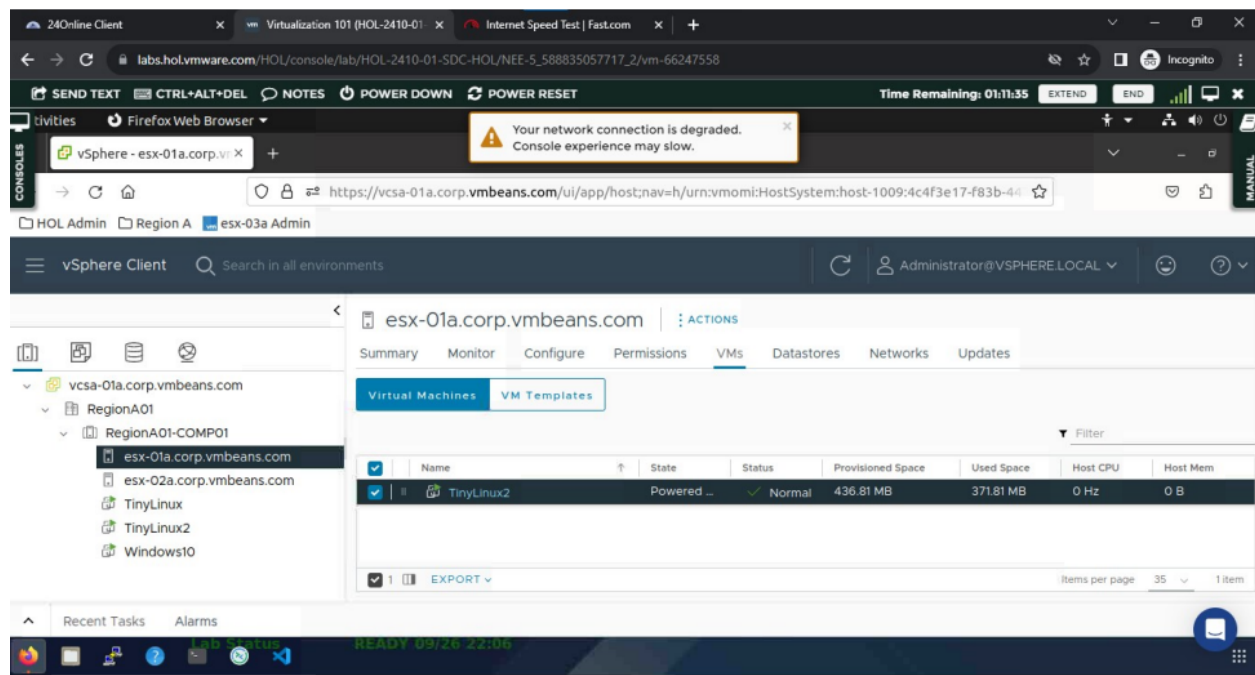
**Step5 :** Select esx-01a.corp.vmbeans.com



**Step6 :** Look for any virtual machines that are Powered Off and select them. Multiple virtual machines can be selected by holding the Ctrl key and clicking on them



**Step7 :** Right-click and select Power/Power On



**Step8 :** Select all the virtual machines Right-click and select Migrate.

24Online Client

labs.hol.vmware.com/HOL/console/lab/HOL-2410-01-SDC-HOL-NEE-5\_588835057717\_2/vm-66247558

SEND TEXT CTRL+ALT+DEL NOTES POWER DOWN POWER RESET Time Remaining: 00:46:21 EXTEND END

Activities Firefox Web Browser Sep 26 11:08 PM

CONSOLES vSphere - esx-01a.corp.vi... +

HOL Admin Region A esx-03a Admin

vSphere Client

Migrate | TinyLinux2

1 Select a migration type

2 Select a compute resource

3 Select networks

4 Select vMotion priority

5 Ready to complete

Select a compute resource

Select a cluster, host, vApp or resource pool to run the virtual machines.

Hosts Clusters Resource Pools vApps

Name	State	Status	Cluster
esx-01a.corp.vmbeans.com	Unreachable	Normal	RegionA01-C...
esx-02a.corp.vmbeans.com	Connected	Normal	RegionA01-C...

Compatibility

✓ Compatibility checks succeeded.

CANCEL BACK NEXT

COMPUTE RESOURCE

Select a compute resource

Select a cluster, host, vApp or resource pool to run the virtual machines.

1. Select esx-02a.corp.vmbeans.com

2. Click Next

Click to enlarge

Since we want to move all the virtual machines to esx-02a.corp.vmbeans.com, we are selecting a specific host. We could also place it in a Cluster and let DRS decide the best host to move it to.

**Step9 :** Select esx-02a.corp.vmbeans.com Click Next

24Online Client

labs.hol.vmware.com/HOL/console/lab/HOL-2410-01-SDC-HOL-NEE-5\_588835057717\_2/vm-66247558

SEND TEXT CTRL+ALT+DEL NOTES POWER DOWN POWER RESET Time Remaining: 00:45:29 EXTEND END

Activities Firefox Web Browser Sep 26 11:09 PM

CONSOLES vSphere - esx-01a.corp.vi... +

HOL Admin Region A esx-03a Admin

vSphere Client

Migrate | TinyLinux2

1 Select a migration type

2 Select a compute resource

3 Select networks

4 Select vMotion priority

5 Ready to complete

Select vMotion priority

Protect the performance of your running virtual machines by prioritizing the allocation of CPU resources.

☒ Schedule vMotion with high priority (recommended)

vMotion receives higher CPU scheduling preference relative to normal priority migrations. vMotion might complete more quickly.

☐ Schedule normal vMotion

vMotion receives lower CPU scheduling preference relative to high priority migrations. You can extend vMotion duration.

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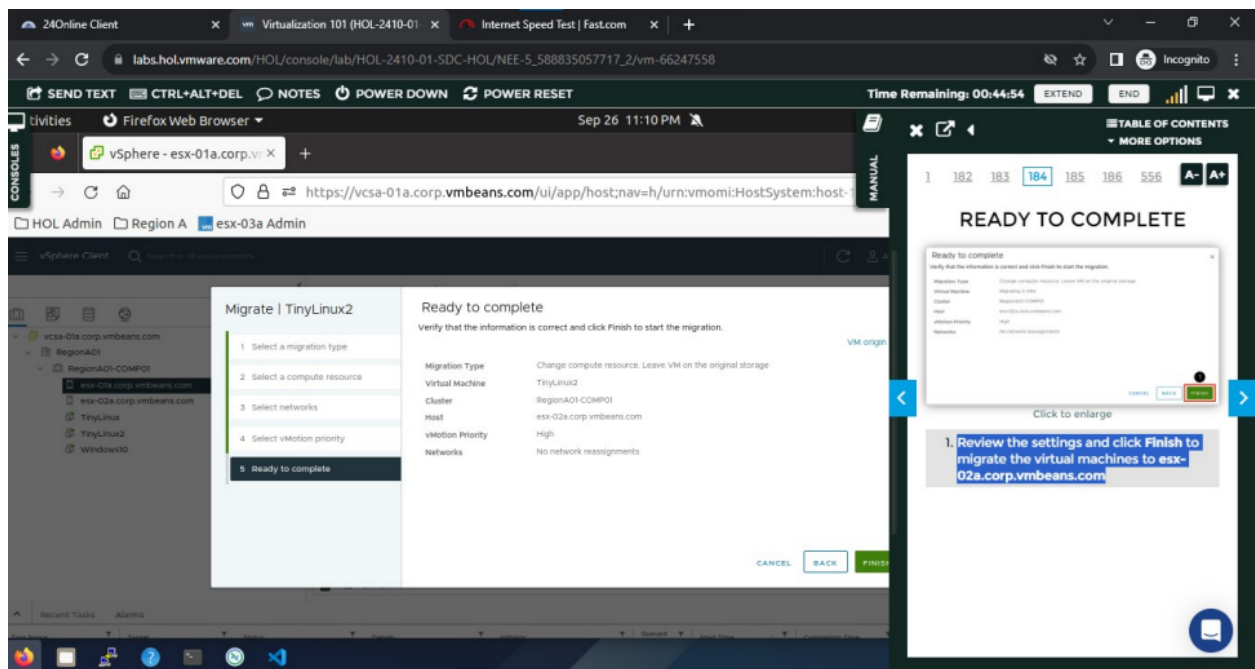
Click to enlarge

A priority can be set for the vMotion task. In most cases, the default option is OK.

1. Leave the default setting and click Next

**Step 10:** Review the settings and click Finish to migrate the virtual machines to esx-02a.corp.vmbeans.com





## Step11: Click on esx-02a.corp.vmbeans.com Click on VMs

