

VIRTUAL SERVER SUMMARY

LA Mission College has 1 vmWare vCenter server managing two virtual Data Centers. Each Data Center has one cluster with three Physical HP Servers running vmWare hypervisor.

The first vCenter cluster contains three physical server hosting all virtual machines. This first cluster hosts virtual servers. We currently have about 41 virtual servers.

The screenshot displays the vCenter console interface for the LAMC-CMS cluster. On the left, a tree view shows the hierarchy: M-VCenter.lamission.admin > LAMC-CMS > LAMC-CMS. Below this, a list of virtual machines is shown, including IP addresses (172.20.254.171, 172.20.254.172, 172.20.254.173) and various server names like ACServer, Cisco-Energy, Equitrac, FAO-FAMSFTP, FAO-VM1, GoPrint, GoPrintPay, IMC RSM, IMC SQL, IT-Bomgar1, IT-SISSync, LAMCAPMS, Lenel-NVR-PRD, Lenel-Reg-PRD, Lenel-Reg-QA, Lenel-Reg-TST, M-ADFS1, M-ADFS2, M-DirSync, MDRws, M-EdgeT1, M-EdgeT2, M-EZProxy, M-HubT1, M-HubT2, M-LicenseMgr, M-Plato, M-Prt1, M-Prt2, M-SQL-Acad, M-SQL-Admin, M-Titan, M-VCenter, M-Web, New-Win10, New-Win2008R2, New-Win2012R2S, New-Win7, Nimble SQLIO Load Generator, Sigma1-ws8.6, and Sigma2-ws8.6.







The main panel shows the 'LAMC-CMS' cluster summary. The 'General' tab is active, displaying the following information:



General	
vSphere DRS:	On
vSphere HA:	On
VMware EVC Mode:	Disabled
Total CPU Resources:	105 GHz
Total Memory:	767.90 GB
Total Storage:	5.01 TB
Number of Hosts:	3
Total Processors:	48
Number of Datastore Clusters:	0
Total Datastores:	8
Virtual Machines and Templates:	41
Total Migrations using vMotion:	89

Below the summary, the 'Commands' section offers several actions:

- New Virtual Machine
- Add Host
- New Resource Pool
- New Datastore Cluster
- Edit Settings

Three physical HP servers with the following specs host all virtual machines.

General	
Manufacturer:	HP
Model:	ProLiant BL460c Gen8
CPU Cores:	16 CPUs x 2.199 GHz
Processor Type:	Intel(R) Xeon(R) CPU E5-2660 0 @ 2.20GHz
License:	VMware vSphere 5 Enterprise Plus - Licensed for 2 physic...
Processor Sockets:	2
Cores per Socket:	8
Logical Processors:	32
Hyperthreading:	Active
Number of NICs:	16
State:	Connected
Virtual Machines and Templates:	6
vMotion Enabled:	Yes
VMware EVC Mode:	Disabled 
vSphere HA State	 Connected (Slave) 
Host Configured for FT:	No 
Active Tasks:	
Host Profile:	
Image Profile:	(Updated) ESXi-5.5.0-2014...
Profile Compliance:	 N/A
DirectPath I/O:	Supported 

Resources	
CPU usage: 650 MHz	Capacity
	16 x 2.199 GHz
Memory usage: 36801.00 MB	Capacity
	262109.30 MB

The second vCenter cluster also has three physical servers hosting virtual machines. This cluster is mainly used for VDI. We currently have about 200 virtual desktops for VDI infrastructure.

The screenshot displays the vSphere Client interface for the LAMC-TitleV cluster. The left-hand navigation pane shows a tree view of the vCenter hierarchy, including the cluster and its constituent hosts and virtual machines. The right-hand pane shows the 'Summary' tab for the cluster, providing key performance and configuration metrics.

General







vSphere DRS:	On
vSphere HA:	On
VMware EVC Mode:	Disabled
Total CPU Resources:	129 GHz
Total Memory:	623.90 GB
Total Storage:	4.86 TB
Number of Hosts:	3
Total Processors:	48
Number of Datastore Clusters:	0
Total Datastores:	9
Virtual Machines and Templates:	215
Total Migrations using vMotion:	368

Commands



- New Virtual Machine
- Add Host
- New Datastore Cluster
- Edit Settings
- New Resource Pool

The three physical HP servers hosting the virtual desktops have the following hardware.

General

Manufacturer:	HP
Model:	ProLiant BL460c Gen8
CPU Cores:	16 CPUs x 2.699 GHz
Processor Type:	Intel(R) Xeon(R) CPU E5-2680 0 @ 2.70GHz
License:	VMware vSphere 5 Enterprise Plus - Licensed for 2 physic...
Processor Sockets:	2
Cores per Socket:	8
Logical Processors:	32
Hyperthreading:	Active
Number of NICs:	8
State:	Connected
Virtual Machines and Templates:	76
vMotion Enabled:	Yes
VMware EVC Mode:	Disabled 
vSphere HA State:	 Connected (Slave) 
Host Configured for FT:	No 
Active Tasks:	
Host Profile:	
Image Profile:	(Updated) ESXi-5.5.0-1331...
Profile Compliance:	 N/A
DirectPath I/O:	Supported 

Resources

CPU usage: 9190 MHz	Capacity
	16 x 2.699 GHz
Memory usage: 182559.00 MB	Capacity
	212957.20 MB