

VMWARE VSPHERE 7.0: INSTALL, CONFIGURE, MANAGE



IT Academy Program

Lab 01: Navigating the vSphere Web Client

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Introduction

In this lab, you will become familiar with the vSphere Client.

Objectives

- J Log In and Navigate vCenter Server via the vSphere Client
 J Log In to an ESXi host via the VMware Host Client



Lab Topology





Lab Settings

The information in the table below will be needed to complete the lab. The task sections below provide details on the use of this information.

Virtual Machine	IP Address	Account	Password
sa-esxi -01	eth0: 172.20.10.51	root	Trai n1ng\$
sa-esxi -02	eth0: 172.20.10.52	root	Trai n1ng\$
sa-ai o	eth0: 172.20.10.10	sysadmi n	vmware123
sa-student	eth0: 172.20.10.80	sysadmi n	vmware123
sa-vcsa	eth0: 172.20.10.94	sysadmi n@vclass.local	vmware123



1 Log In and Navigate vCenter Server via the vSphere Client

In this task, you will navigate through the objects in the navigation tree and view the configuration settings to become familiar with the UI layout while using the vSphere Client.

1. Launch the sa-student virtual machine to access the graphical login screen.



2. Log in as sysadmin using the password vmware123.



3. Launch the Mozilla Firefox web browser by either clicking on the icon shortcut found on the bottom toolbar or by navigating to Start Menu > Internet > Firefox Web Browser.





4. Notice the homepage is automatically configured to load the URL address of the VMware vCenter Server Appliance (sa-vcsa virtual machine). Click on the LAUNCH VSPHERE CLIENT (HTML5) button to launch the vSphere Client.



VMware vSphere Documentation Center



If you cannot successfully load the VMware Getting Started webpage, then please wait an additional 3-5 minutes and refresh the page to continue. During this time, the vCenter Server Appliance is still booting up and requires extra time to initialize.

5. In the Username text field, type sysadmi n@vclass.local and in the Password text field, type vmware123. Click on LOGIN.

sysadmin@	vclass.local
Cise Win	A CONTRACT OF
1	dows session aumentication
	dows session authentication
Disterin	dows-session authentication
	dows session authentication
	Login
	LOGIN

You may ignore the "browser-OS combination" warning message presented on the VMware vCenter Single Sign-On page and continue moving forward with the lab.

Note



6. Throughout the VMware ICM lab set, if you see an informational pop-up, click REFRESH BROWSER.



7. For this VMware ICM lab set, adjust the Display resolution at the beginning of each lab, depending on your screen size. Click the Start button, go to Settings > Display.





8. In the Display window, the default Resolution is automatically set to 1280x768 for each new lab reservation. Open the Resolution dropdown menu and choose the resolution that best fits your screen.



This is the only lab with these instructions, and that in each new lab reservation the default screen resolution will be set to 1280x768. If you have difficulties viewing the lab environment throughout the VMware ICM lab set, refer to steps 6 and 7 of Lab 1.

Please Note



9. In the navigator pane, ensure that you are viewing the Hosts and Clusters tab. Proceed with clicking the arrow next to each object to expand the view completely.



10. Select sa-esxi-01.vclass.local from the navigator pane, followed by clicking on the Summary tab.



11. Notice while on the Summary tab for the selected host that live performance data is shown near the top-right corner.

🛾 sa-es	xi-01.vclass.loc			
Summary	Monitor Configur	e Permissions VMs Resource Pools Datastores	Networks Updates	
	Hypervisor:	VMware ESXI, 7.0.0, 15843807	CPU	Free: 4,53 GHz
2	Model:	VMware7,1	Used: 57 MHz	Capacity: 4.59 GHz
100	Processor Type:	Intel(R) Xeon(R) D-2146NT CPU @ 2.30GHz	a second second second second second	
	Logical Processors:	2	Memory	Free: 6.72 GB
	NICs:	3	Used 1.27 GB	Capacity: 8 GB
	Virtual Machines;	6	Storage	Free: 35.93 G8
	State:	Connected		
	Uptime:	3 days	Used: 38.2 G8	Capacity: 74.12 GB



12. Expand the Hardware and Configuration panes to view the host's information regarding the CPU, Memory, Network, Storage, and Image Profile.

sa-esxi-01.vclas	S.IOCAI	Resource Pools Datastores	Networks Updates
Hardware		Configuration	
Manufacturer	VMware, Inc.	Image Profile	ESXI-7.0.0-15843807-standard
Model	VMware7.1	vSphere HA State	2 N/A
> CPU	2 CPUs x 2.3 GHz	> Fault Tolerance	Unsupported
Memory	1.27 GB / 8 GB	(Legacy)	
> Virtual Flash Resource	0 B / 0 B	> Fault Tolerance	Unsupported
> Networking	sa-esxi-01.netlab.local	> EVC Mode	Disabled
> Storage	4 Datastore(s)		

13. In the navigator pane, click on 172.20.10.94 to return to the top of the navigation tree.

đ	Ø	8	<u>.</u>			
~ 🗗 172.	20:10.94)			
~ 🖻 D	🗸 📑 Datacenter					
[[]] Lab Cluster						
~ [sa-esxi	-01.vclass	local			

Please

Note

For this lab, you will notice that the IP address of VCSA is being utilized in the navigator pane within the vSphere Client. When you log on to VCSA via Firefox, you will use the FQDN of sa-vcsa.vclass.local.

14. Click in the Search in all environments text box located at the top of the page and type datastore. From the search results, click datastore 1.

vm vSphere Client Me	nu 🗸 🔍	daïastore	⊗ ⊋~	C	<u>к</u>
 □ □	172. C	Search for "datastore" (2 results , including 2 Datastores) datastore 2		ters	N
 Datacenter Lab Cluster sa-esxi-01.vclass.local 		datastore 1			



15. In the main workspace, view the Summary tab for datastore 1. Notice, in the topright corner, how much storage space is available for live performance data. Review the datastore details in the Details pane.

uninaly Monitor ee	nfigure Permissions Files Hosts V	Ms			
Type: VMFS	6			Storage	Free: 9.75
URL: ds:///vmfs/volumes/5f0373db-a856e3c8-2e00-00505682f408/			Used: 5 GB	Capacity: 14.75	
					Refre
letails			Related Objects		^
Location	ds:///vmfs/volumes/5f0373db-		None		
	a856e3c8-2e00-00505682f408/				
Туре	VMES 6				
Hosts	1		Custom Attributes		~
Virtual machines	3		Attribute	Value	
a fail a card a strange a sear	0				

16. To identify the vSphere Client version, click on the Help button located at the top of the page and click About VMware vSphere.

C @~
Help vSphere Help Videos
About VMware vSphere
VMware Cloud

17. In the new pop-up window, notice the version of the vSphere Client. Click X to close the window.

VMware® vSphere®	vSphere Client version 7.0.0.10100	\times
Copyright © 1998-2020 VMware, Inc. All rig	ghts reserved. This product is protected by copyright and intellectual property laws in the	
United States and other countries as well a	is by international treaties. VMware products are covered by one or more patents listed at	
http://www.vmware.com/go/patents.		
VMware, the VMware "boxes" logo and de	sign, Virtual SMP and vMotion are registered trademarks or trademarks of VMware, Inc. in	
the United States and/or other jurisdiction:	s. All other marks and names mentioned herein may be trademarks of their respective	
companies.		



18. To change the theme for the vSphere Client UI, click on the username, sysadmin@vclass.local, located at the top of the page and click on Switch Theme.

⑦ ✓ sysadmin@vclass.tocal ✓
Change Password
My Preferences
Switch Theme
Logout

19. Notice the theme colors changed to a dark mode. Leave Mozilla Firefox open and continue to the next task.

← → C	a-vcsa. vclass.local /ui/app/datast		e5958-6: 🖾 👉 🕅 1	00% + e ⁿ	IN II © ∞ Ξ
vSphere Client plugin	is (including VMware and Part	ner plugins) are still being upgraded to the new d	ark theme. Expect some plugins	a to exhibit visual inconsisten	icles. X
vm vSphere Client M	enu 🗸 🛛 🔍 datastore		C	⊙ ∽ sysadmin@vcla	isslocal 🗸 🔛 🖨
☐ 2 <u>9</u> <u>9</u> ∨ <mark>2</mark> 172.20.10.94	datastore 1 Summary Monitor	ACTIONS Y Configure Permissions Files Hos	sts VMs		
	URL V	VMFS 6 ds:///vmfs/volumes/510373db-a856e3c8-2e00-00	05056821408/	Storage Used: 14.73 GB	Free: 22 MB Capacity: 14 75 GB Refresh
S NFS-1	Details	ds:///vmfs/volumes/5f0373db-	Related Objects		
		a856e3c8-2e00-00505682f408/	Custom Attributes		
		VMFS 6	Attribute	Value	
	Virtual machines				
	VM templates				
Recent Tasks Alarms					*

Please Note Observe the note that is shown when switching to dark mode. vSphere Client plugins (including VMware and Partner plugins) are still being upgraded to the new dark theme. Expect some plugins to exhibit visual inconsistencies.

Depending on the plugin you are utilizing within your environment, you may experience visual errors. To fix the visual errors, you may need to switch back to the default theme.



2 Log In to an ESXi host via the VMware Host Client

In this task, you will log in to the sa-esxi-01 host and view the UI layout while using the vSphere Host Client.

1. Launch a new tab in Mozilla Firefox.



2. On the new tab in the Mozilla Firefox web browser, you will access sa-esxi-01 in the address bar, type https: //172. 20. 10. 51 and click Enter.



3. In the Username field, type root and in the Password text field, type Train1ng\$. Click on Log in.

User name	root	MONARO' ESVI		
Password		VIIIWale Esti		
	Log in			



4. The VMware Host Client opens directly with the host selected. You will also notice that there is a Navigator pane available for you to view specific information about the host. The CPU, Memory, and Storage information is available as it was in vCenter Server. Lastly, notice the message stating, "This host is being managed by vCenter Server. Actions may be performed automatically by vCenter Server without your knowledge". This message is advising that the host is active on vCenter Server and there may be automated actions being performed outside of the VMware Host Client view.

~		sa-esxi-01.neclab.local - VMware ESXi - Mozilla	Firefox		* >		
🦉 vSphere - datastore 1 - Summ 🗙 🤞 sa-esxi-01.netlab.local - WMw 🗙 🕇							
← → C û 🛛 🔒 https:/	// 172.20.10.51/ ui/#/host			☺☆- 100% +∠* ॥\⊡ @ ∞ 🕯	!≡		
vmware [,] ESXi ⁻		E		root@172.20.10.51 ▼ Help ▼ Q Search	•		
Navigator	sa-esxi-01.netlab.local						
Itost Manage Monitor • Oritrus Machines • Storage • Storage • Storage	Manage with vCenter Server Sae-Exk-01.net(Version: Ustme: This host is being managed	Create Register VM De Shut down De Reboot C Refresh De Actions b.b.Cocal 7.0 0 fbade 155435077 Normal (consorted to vCenter Server at 172.20.10.94) 0.01 days by VCenter Server. Actions may be performed automatically by vCenter Server witho	ut your knowledge. 🎲 Actions	CPJ FREE 45 GHz USED 122 MHz CAPACITY 45 GHz MEMORY FREE 45 GHz MEMORY FREE 45 GHz USED 117 GB CAPACITY 64 GHz MEMORY FREE 45 GHz USED 1166 GB CAPACITY 64 GHz			
	Handunan		Configuration				
	+ Hardware	Vithuren Inn	+ Configuration	COVI 7.0.0.15042907 standard (Vilkeare Jos.)	- 11		
	Madal	Vitware, inc.	uCohere LIA state	ESAP7.0.0-10043007-Statistical (Viviviale, IIIC.)	- 11		
		2 CPLIe v Intel/P) Yeen/P) D-2146NT CPLL@ 2 20GHz	vopriere FIA state	Supported			
	W Momany	2 CPUs x Intel(H) Xeon(H) U-2146NT CPU @ 2.30GHz Supported		Supported	- 11		
	A Menory	08/08	- System Information		1		
	P Martinet		Date/time on host	Friday, July 31, 2020, 23:39:41 UTC			
	Virtual flash	0 B used, 0 B capacity	Install date	Monday, July 06, 2020, 17:50:37 UTC			
	✓ Metworking		Asset tag	No Asset Tag			
	Hostname	sa-esxi-01.netiab.local	Serial number	VMware-42 19 fa 0c 19 51 ae 01-60 ba 07 dd 1a 90 bb bf			
	IP addresses	1. vmk0: 172.20.10.51	BIOS version	VMW71.00V.0.B64.1607292324			
	DNS servers	1. 172.20.10.10 2. 172.20.11.10	BIOS release date	Thursday, July 28, 2016, 20:00:00 -0400			
	Default gateway	172.20.10.10	- Performance summary last hour	r			
	ID-0	15			_		
	Recent tasks						
	Task	V Target V Initiator V Queued	 Started 	✓ Result ▲ ✓ Completed ▼	~		
	Auto Start Power On	sa-easi 40 metabolocal root 07312000 r	93129 07312880 193129	Completed successfully 0731.0000 19:31:29			

Please You will install, configure, and manage an ESXi host in a later lab.

5. The lab is now complete; you may end your reservation.