



Remote Access to the CIS VLab (303)

This Howto shows to remotely access the CIS 192 VMs in the CIS Virtual Lab (VLab). The CIS VLab was developed to remotely provide Distance Education students with the same resources found in the physical CIS Lab on campus. The CIS VLab provides current CIS students with a number of Linux and Windows virtual machines (VMs) that can be accessed remotely for doing lab assignments.

Supplies

- A reasonably fast computer running Windows
 - o or a Windows virtual machine on a Mac computer
 - or using the CoRD: Simple RDP Remote Desktop on a Mac (download from http://cord.sourceforge.net/)
- A reasonably fast Internet connection



Overview

From home you will use a Remote Desktop Protocol (RDP) file to first connect to the Windows 2008 server named **cislab** on the Aptos campus, then the VMware ESXi server named **vmserver4**. The VMs used for CIS 192 are on that ESXi server.

	CentOS	Ubuntu	Windows
VMs	Arwen	Frodo	William
	Celebrian	Sauron	
	Elrond		
	Legolas		

The following VMs available for use by CIS 192 students:

Each VM is a fully functional computer system that can be powered up, connected to networks, used to complete lab assignments, and then powered down. The Windows and Ubuntu VMs have one NIC each. All the CentOS VMs have dual NICs allowing them to join more than one network.

Step 1 – Download and unzip the RDP file

Go to the CIS 192 Calendar page on the course website at <u>http://simms-teach.com/</u> and in Lesson 1 locate the link for the "CIS VLab RDP File."



Download this zipped file to your computer and extract the file named "vlab192.rdp" to your Desktop so you can easily find it again.

You only download the RDP file once. It can be used over and over whenever you want to connect to VLab. You can delete the zipped file if you wish.

Step 2 – Connect to VLab using the RDP file

Locate the new RDP file on your Desktop and double click, or Right-Click > Connect, to start the connection.



The zipped and extracted RDP files shown on the Desktop.

You will then see some or all of the following dialog boxes:

nemot	teApp				
The publisher of this RemoteApp program cannot be identified. Do you want to connect to run the program anyway?					
This RemoteApp program could harm your local or remote computer. Do not connect to run this program unless you know where this program came from or have used it before.					
	Publisher:	Unknown publisher			
750	Туре:	RemoteApp program			
	Path:	cis192_rdp -u cis192 -s vmserver4.cisvlab.net			
	Name:	VMware vSphere Client			
	Remote computer:	cislab.cabrillo.edu			
Don't ask me again for connections to this computer Details Connect Cancel					

Go ahead and Click on Connect button

Windows Security	
Enter your of These credentia	credentials als will be used to connect to cislab.cabrillo.edu.
	Password
	Use another account
📄 Reme	mber my credentials
	OK Cancel

This is the prompt to log into the server named **cislab**. If you don't see your account, then select "Use another account" and use the account provided to you by your instructor.



This may take a little time as the connection to the VMware ESXi server is established.

🛃 VMware vSphere Client		×
		2
Client		
To directly manage a single To manage multiple hosts, vCenter Server.	e host, enter the IP address or host enter the IP address or name of a	name.
IP address / <u>N</u> ame:	vmserver4.cisvlab.net]
User name:	cis 192	
Password:	*******	-
	,	_
	Use Windows session credentia	als
	Login <u>C</u> lose	Help

This is the prompt to log into the VMware ESXi server named vmserver4. Use the cis192 account and the other password provided to you by your instructor.

ecurity Warning					
Certificate Warnings					
An untrusted SSL certificate is installed on "vmserver4.cisvlab.net" and secure communication cannot be guaranteed. Depending on your security policy, this issue might not represent a security concern. You may need to install a trusted SSL certificate on your server to prevent this warning from appearing.					
Click Ignore to continue using the current SSL certificate.					
View Certificate					
$\hfill \square$ Install this certificate and do not display any security warnings for "vmserver4.cisvlab.net".					

Click Ignore button on this warning.

🛃 vmserver4.cisv	lab.net - vSphere Clien	t					
<u>File E</u> dit Vie <u>w</u> I	nventory <u>A</u> dministration	<u>Plug-ins</u> <u>H</u> elp					
🖸 🖸 🛕	Home						
Inventory							
F							
Inventory							
Administration							
6							
Roles	System Logs						
Recent Tasks				Name	e, Target or Status contains:	•	Clear ×
Name	Target	Status	Details	Initiated by	Requested Start Ti 🖙	Start Time	Completed Ti
S lasks					License	Period: 346 days ren	naining cis192 //

When you see this you have successfully logged into VLab. Click the Inventory icon.

🛃 vmserver4.cisvlab.net - vSphere	Client			_ _ _ X
<u>File Edit View Inventory Administra</u>	ation <u>P</u> lug-ins <u>H</u> elp			
💽 💽 🏠 Home 🕨 🛃 Inv	ventory 🕨 🛐 Inventory			
5				
+ vmserver4.cisvlab.net	vmserver4.cisvlab.net VMwa	re ESXi, 4.1.0, 260247		
	Getting Started Summary	Virtual Machines Resou	rce Allocation Performance Configuration	on Local Users & Grou d 🕨
	What is a Host?			
	A host is a computer that as ESX or ESXI, to run v CPU and memory resound give virtual machines ac connectivity.	at uses virtualization irtual machines. Hos rces that virtual mac cess to storage and	software, such Virtual M Is provide the nines use and network	lachines
	You can add a virtual ma one or by deploying a vi	achine to a host by c irtual appliance.	reating a new	
	The easiest way to add a virtual appliance. A virtu machine with an operatin installed A new virtual m	a virtual machine is t lal appliance is a pre ng system and softw nachine will need an	o deploy a -built virtual are already operating	
Recent Tasks			Name, Target or Status contains: -	Clear ×
Name Target	Status	Details Initiated	by 🛛 Requested Start Ti 🤝 Start Tim	e Completed Ti
•				F
Tasks			License Period: 39	13 days remaining cis192 🎢

Click the small "+" in front of vmserver4.cisvlab.net and in front of the different pods to see all the VMs.



Any VMs with a little green triangle on their mini-icon indicates that VM has been powered on and may be in use by another student. On the screen above, both P2_Celebrian and P2_Frodo have been powered on. Please use a VM that is not in use.

Step 3 – Disconnect from VLab

Please remember shut down any VMs you are no longer using.

To disconnect, use File > Exit or just click the upper-right "X" to close the VMware vSphere Client. You will be disconnected from VLab. Any VMs that you did not shutdown will continue to run.