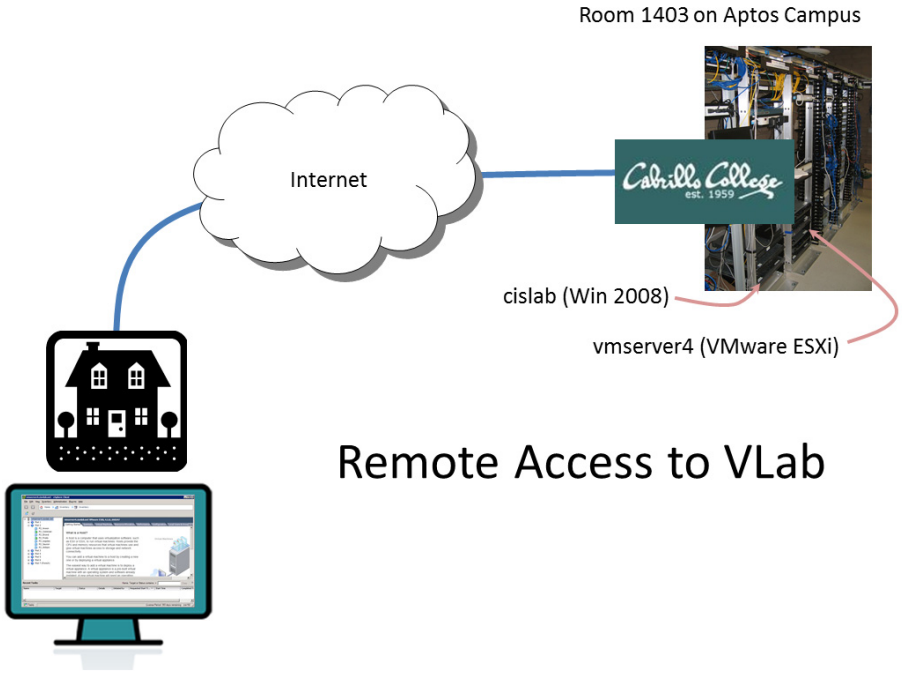
Remote Access to the CIS VLab (303)

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
  - 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.

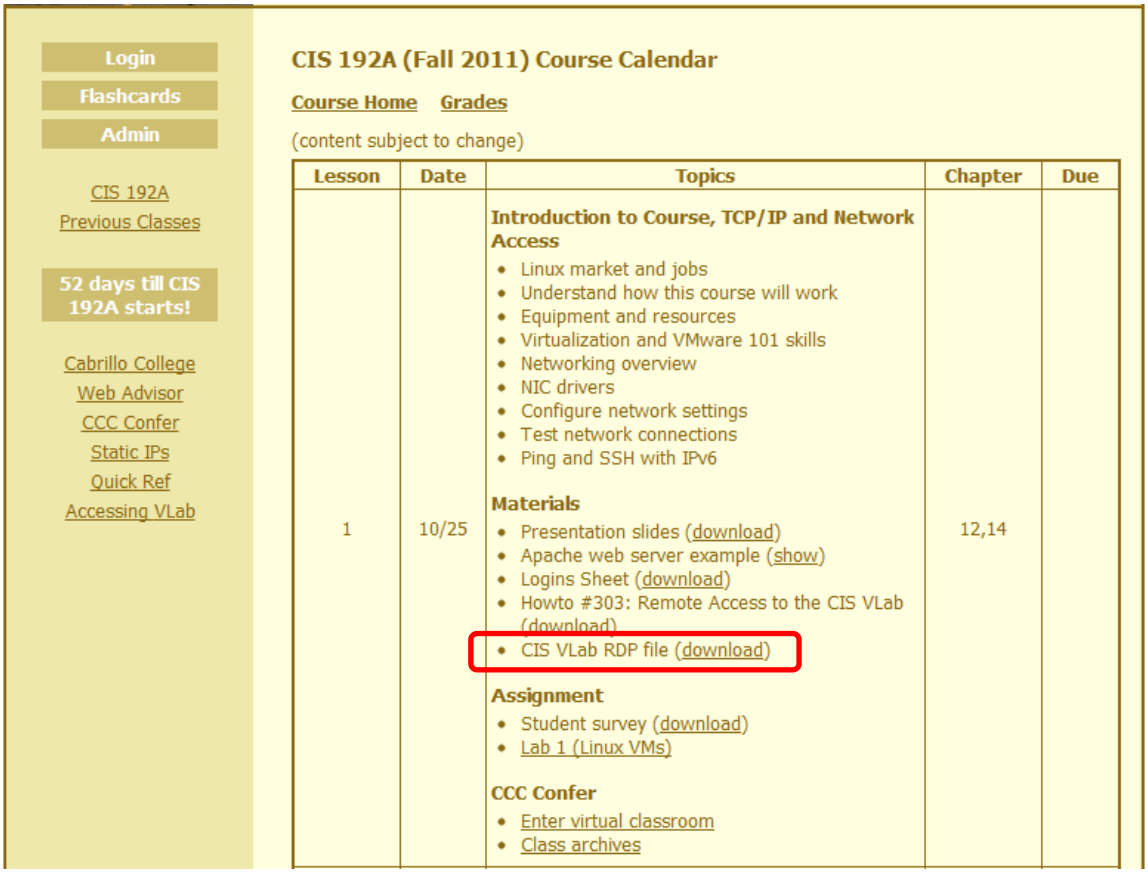
The following VMs available for use by CIS 192 students:

	CentOS	Ubuntu	Windows
VMs	Arwen	Frodo	William
	Celebrian	Sauron	
	Elrond		
	Legolas		

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 http://simms-teach.com/ and in Lesson 1 locate the link for the "CIS VLab RDP File."



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CIS 192A (Fall 2011) Course Calendar

Course Home Grades

(content subject to change)

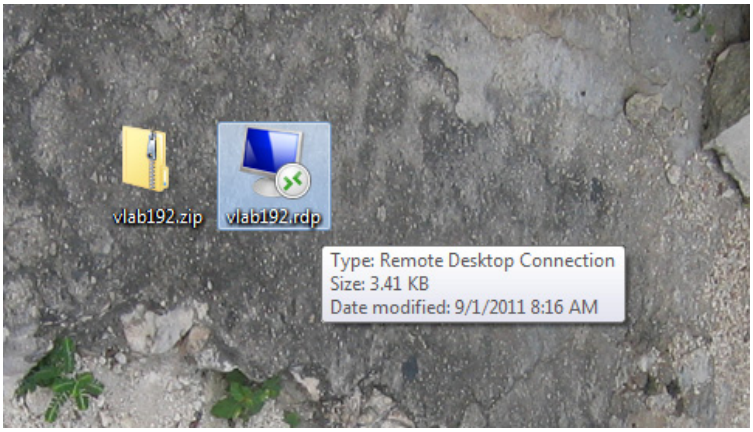
Lesson	Date	Topics	Chapter	Due
1	10/25	**Introduction to Course, TCP/IP and Network Access** • Linux market and jobs • Understand how this course will work • Equipment and resources • Virtualization and VMware 101 skills • Networking overview • NIC drivers • Configure network settings • Test network connections • Ping and SSH with IPv6 **Materials** • Presentation slides (download) • Apache web server example (show) • Logins Sheet (download) • Howto #303: Remote Access to the CIS VLab (download) • CIS VLab RDP file (download) **Assignment** • Student survey (download) • Lab 1 (Linux VMs) **CCC Confer** • Enter virtual classroom • Class archives	12,14	

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.

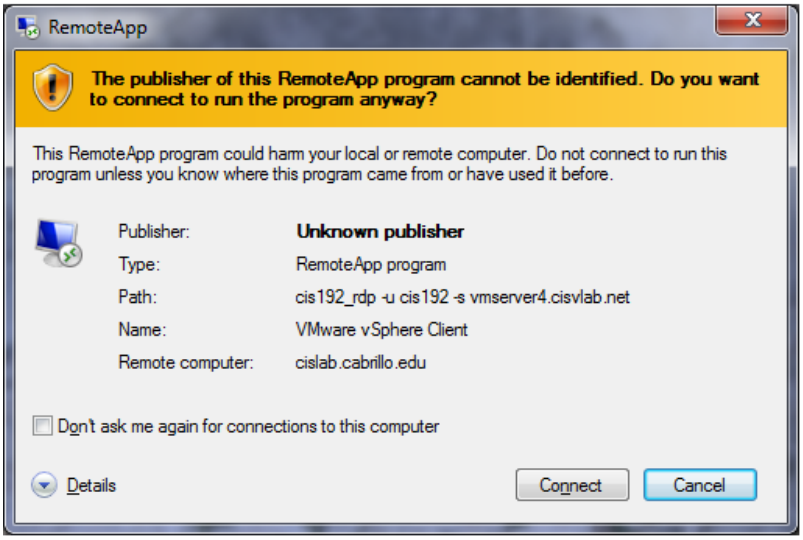
Step 2 – Connect to VLab using the RDP file

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

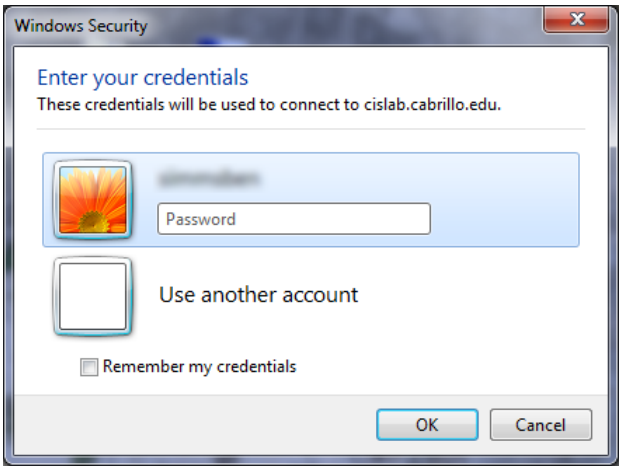


The zipped and extracted RDP files shown on the Desktop.

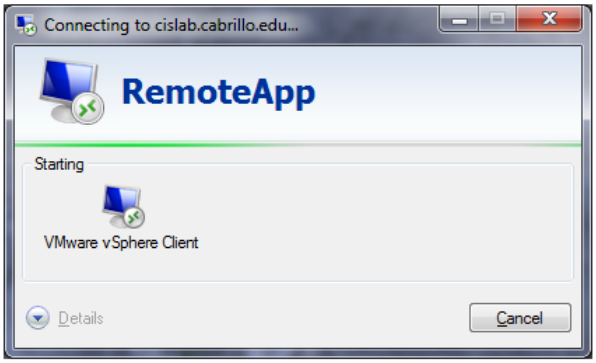
You will then see some or all of the following dialog boxes:



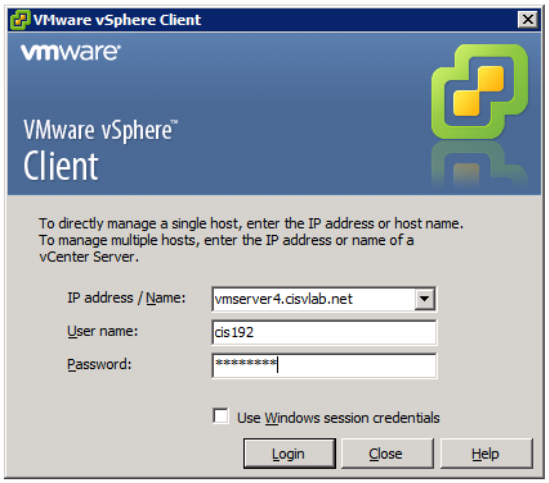
Go ahead and Click on Connect button



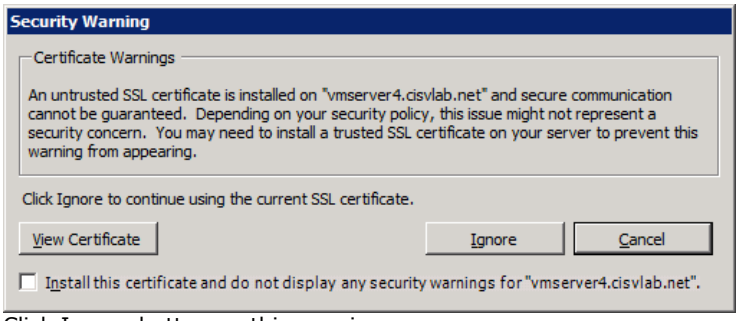
This is the prompt to log into the server named **cislab**. If you don't see your account, then select "Use another account" and use the account provided to you by your instructor.



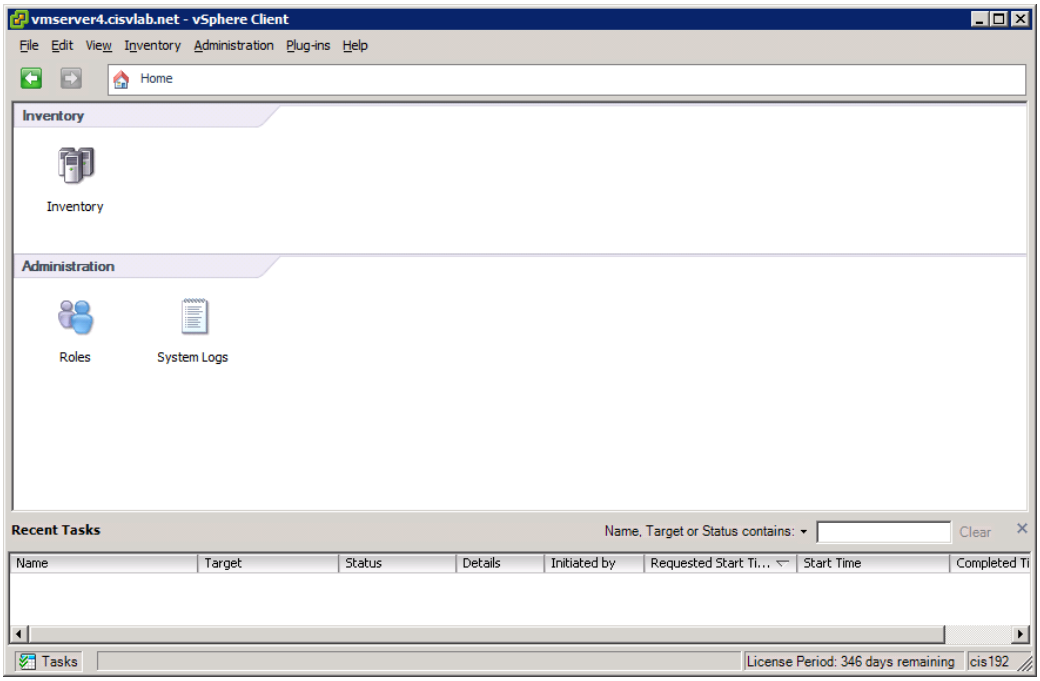
This may take a little time as the connection to the VMware ESXi server is established.



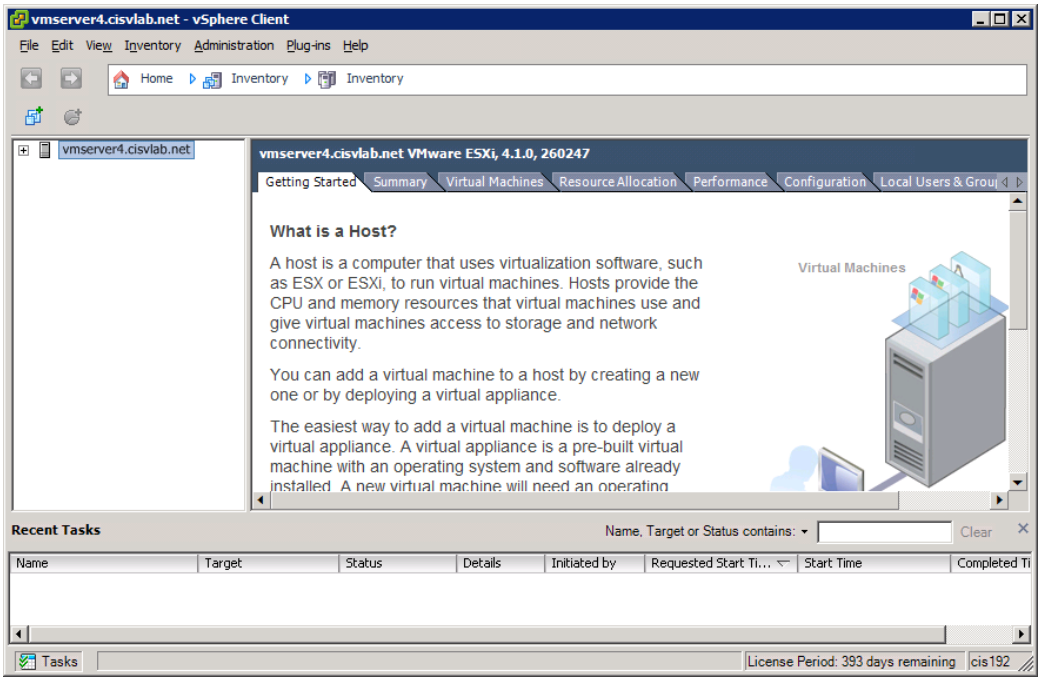
This is the prompt to log into the VMware ESXi server named vmserver4. Use the cis192 account and the other password provided to you by your instructor.



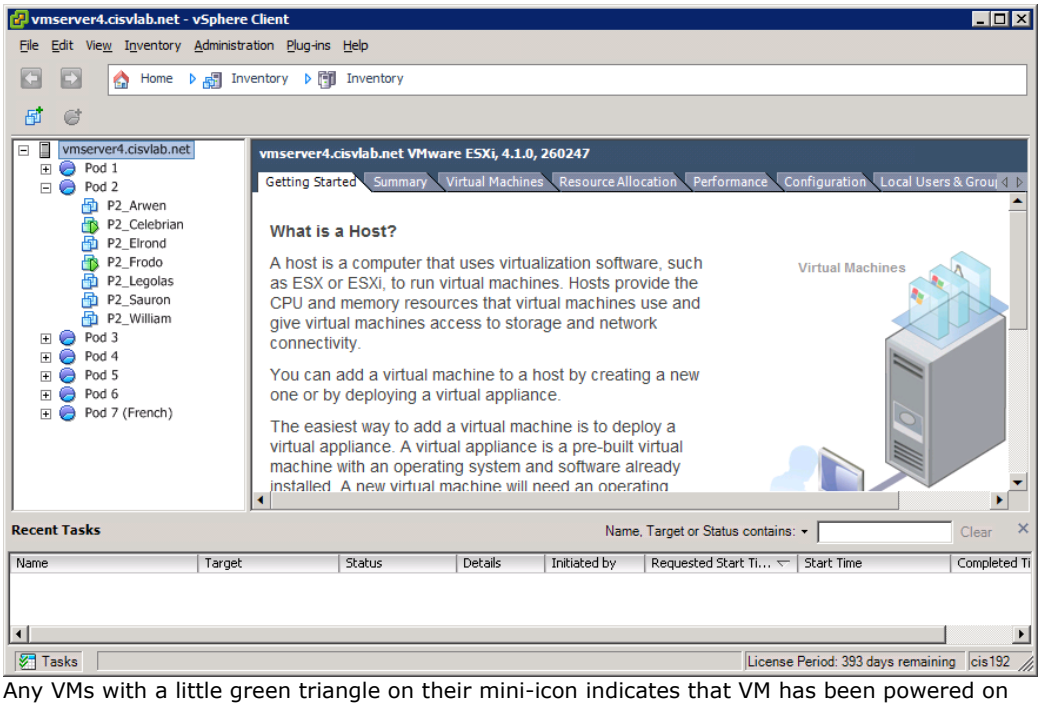
Click Ignore button on this warning.



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



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.