

Creating a Virtual Machine for the VCL Server

1. Create a reservation for the vSphere client image## Log into <https://vcl.ncsu.edu>
 - a. Click New Reservation
 - b. Select VMware vSphere Client Bootcamp 2011
 - c. Click Create ReservationWait for the reservation to be ready, Connect button appears
 - d. Click Connect
 - e. Connect to the reservation via RDP and login
2. Log into the ESXi host## Launch the VMware vSphere Client application#### IP Address: enter the IP address you were given
 - a.
 - i. Username: root
 - ii. Password: **<password>**
 - b. Click Login
 - c. If presented with a Security Warning box, click the "Install this certificate..." checkbox and then click Ignore
3. Create a virtual machine for your VCL server## Click File > New > Virtual Machine
 - a. Configuration: Custom
 - b. Name: vcl-server
 - c. Datastore: local
 - d. Virtual Machine Version: 7
 - e. Guest Operating System: Linux#### Version: CentOS 4/5 (32-bit)
 - f. Number of virtual processors: 1
 - g. Memory Size: 1 GB
 - h. How many Nics: 2#### NIC 1: Private, Adapter: E1000, Connect at Power On: Yes
 - i. NIC 2: Public, Adapter: E1000, Connect at Power On: Yes
 - i. SCSI controller: LSI Logic Parallel
 - j. Disk: Create a new virtual disk#### Disk Size: 8 GB
 - i. Allocate and commit space on demand (Thin Provisioning): Yes
 - ii. Support clustering: No
 - iii. Location: Store with the virtual machine
 - k. Virtual Device Node: SCSI (0:0)#### Mode: Independent, Persistent
 - l. Edit the virtual machine settings before completion: Yes
 - m. Select the CD/DVD device#### Change Device Type to: Datastore ISO File
 - i. Click Browse#### Navigate to local/iso
 1. Select: CentOS-5.6-i386-bin-DVD.iso
 - ii. Connect at power on: Yes
 - n. Click Finish
4. Install the VCL Server OS## Click the plus sign in the left pane to display the VM
 - a. Select the VCL Server VM
 - b. Click the Console tab
 - c. Click the play button to start the VM
 - d. To install in or upgrade in graphical mode: press Enter
 - e. Choose Skip to skip the media testthe GUI installation begins...
 - f. Click Next
 - g. Select English
 - h. Would you like to initialize this drive: Yes
 - i. Click Next to use the default partitioning scheme
 - j. Network Devices:#### Select eth0 and click Edit#### Enable IPv4 support: Yes##### Manual configuration##### IP Address: 10.100.0.1
 - i.
 1.
 - a. Prefix (Netmask): 255.255.255.0
 2. Enable IPv6 support: No
 - ii. Select eth1 and click Edit#### Enable IPv4 support: Yes##### Dynamic IP configuration (DHCP)
 1. Enable IPv6 support: No
 - iii. eth1 - Activate on Boot: Yes
 - k. Select a timezone
 - l. Root Password: **<password>**
 - m. Software packages - uncheck Desktop - Gnome
 - n. Reboot the VM when the installation is complete
 - o. Select the item that you wish to modify: click Exit
 - p. Login as root
 - q. Verify the networking: ifconfig#### eth0 should be assigned 10.100.0.1
 - i. eth1 should be assigned a public IP address: 152.46.x.x
5. Log in via SSH## Launch PuTTY from the computer you connected to via RDP#### Host Name: Enter the public IP address of the VCL server which is displayed in the ifconfig output
 - a.
 - i. Saved Sessions: enter 'vcl-server'
 - ii. Click Save
 - b. Connect to vcl-server
 - c. Login as root
6. Install the VCL components:<https://cwiki.apache.org/confluence/display/VCL/VCL+2.2.1+Installation>