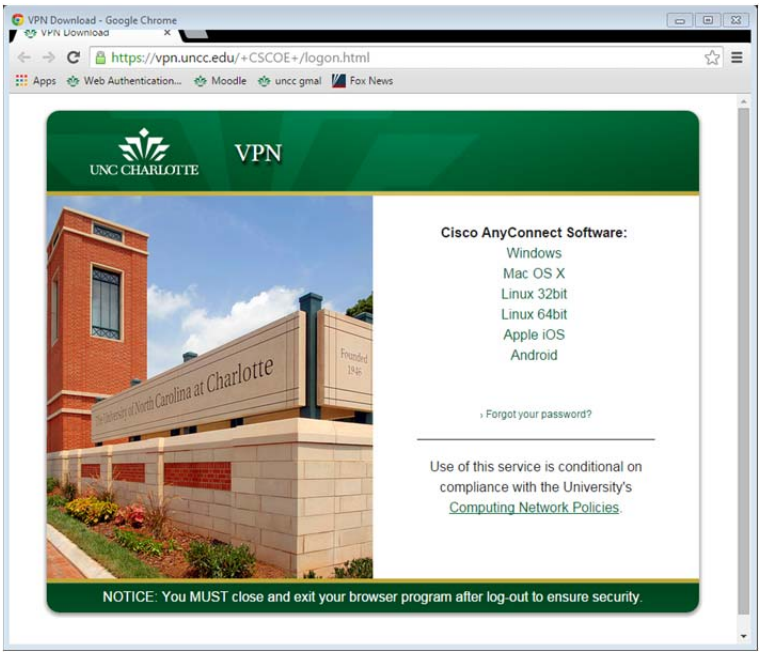
Connecting to cci-gridgw.uncc.edu from campus wireless or off-campus

B. Wilkinson January 29, 2016

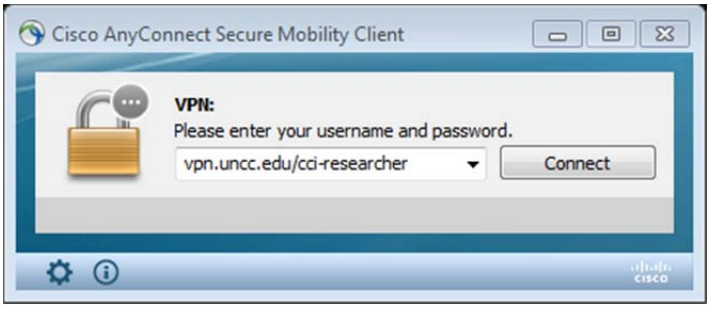
The parallel programming cluster cci-gridgw.uncc.edu can now only be accessed by the campus wireless or off-campus through the university VPN connection. To make this connection, you will first need to install the UNCC VPN client. Download the client to suit your platform from:

http://vpn.uncc.edu



and install. Launch the client and enter the following server address:

vpn.uncc.edu/cci-researcher



Press "Connect." You will be asked for a username and password. Enter your UNCC 49er username and password.

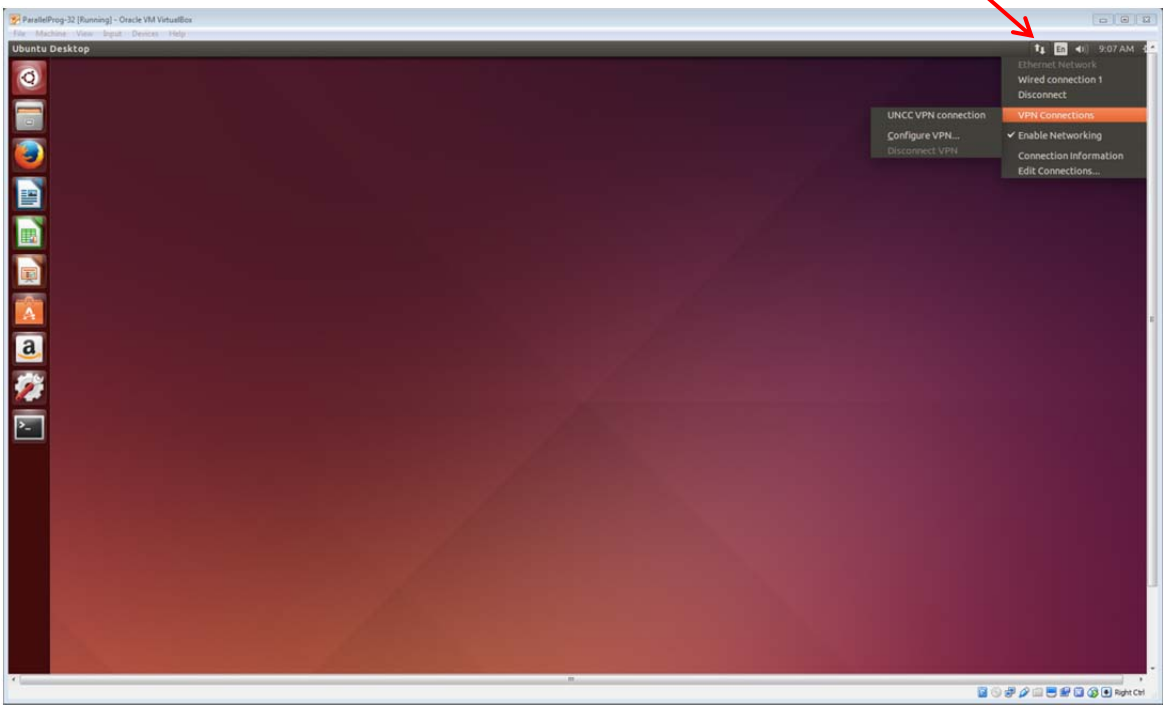
After the connection is made, your Internet access will be through the VPN server. Ports 22, 80 and 443 are open allowing you to use both ssh and a browser

After use, close the VPN connection.

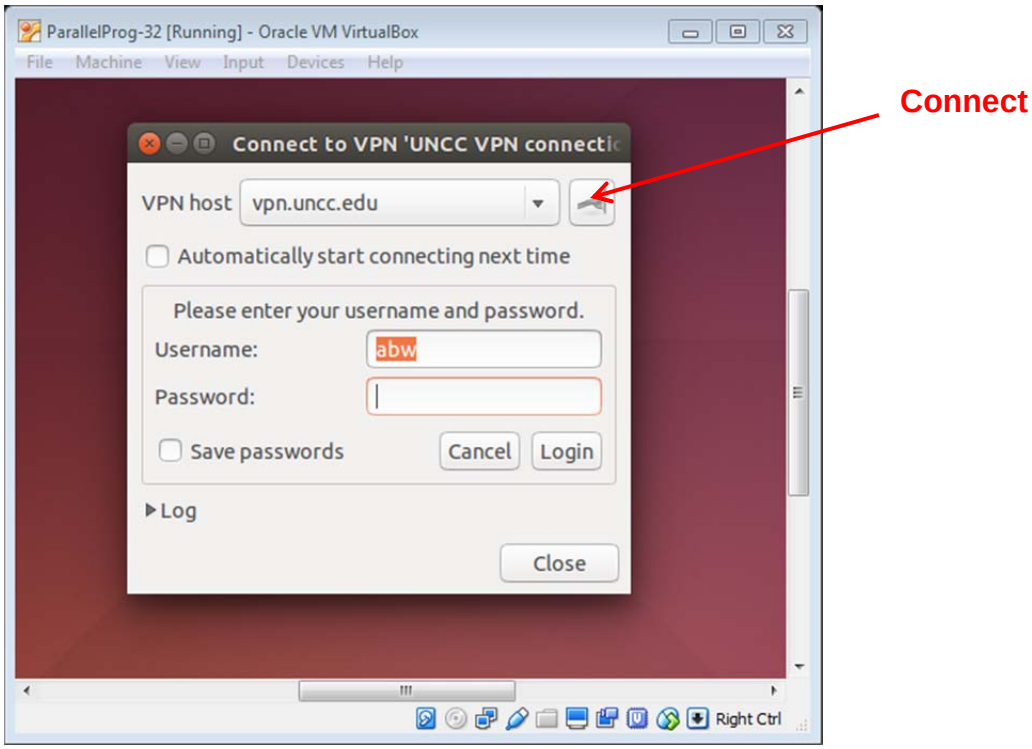
Using VPN with Course Virtual Machine

Generally to make a VPN connection from the VM you cannot use the Cisco AnyConnect Software installed on the host OS.

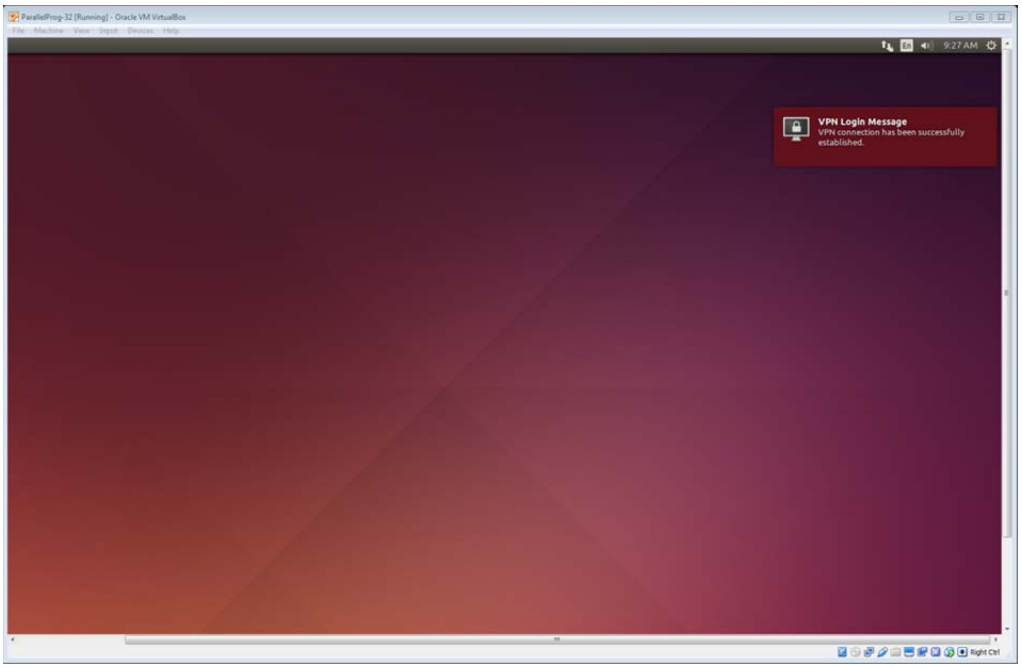
The course VM now has the Cisco AnyConnect Software pre-installed. Click the Network icon at the right of the menu bar and select **VPN Connections** > **UNCC VPN connection**



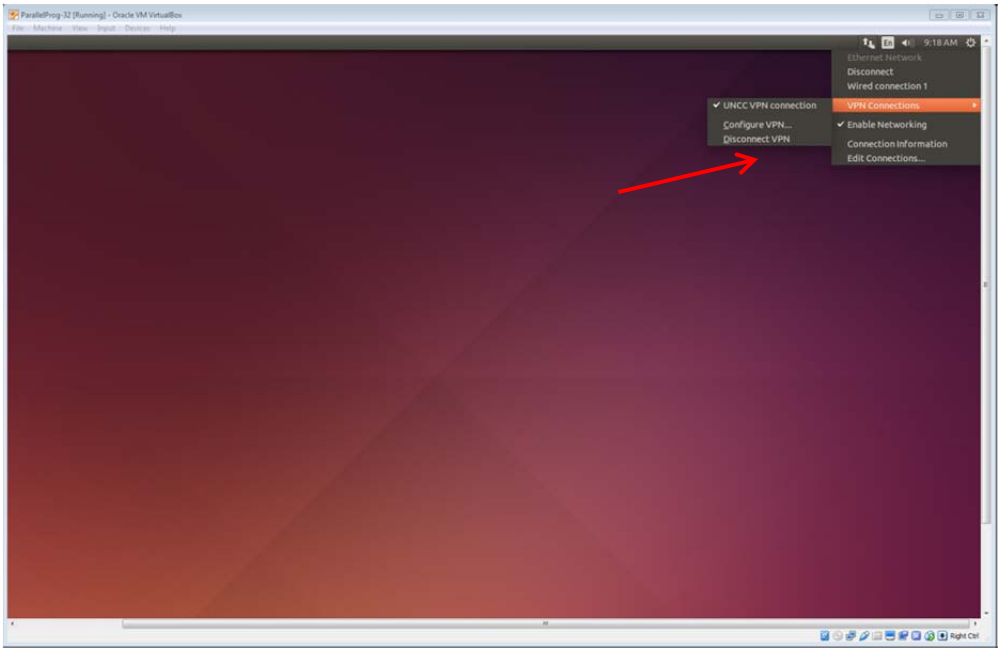
Connect to the VPN host and enter your UNCC credentials:



You should message a pop-up message saying the connection is made.



Disconnect with:



Installing OpenConnect Software

Two ways:

(a) Using Ubuntu OpenConnect Software

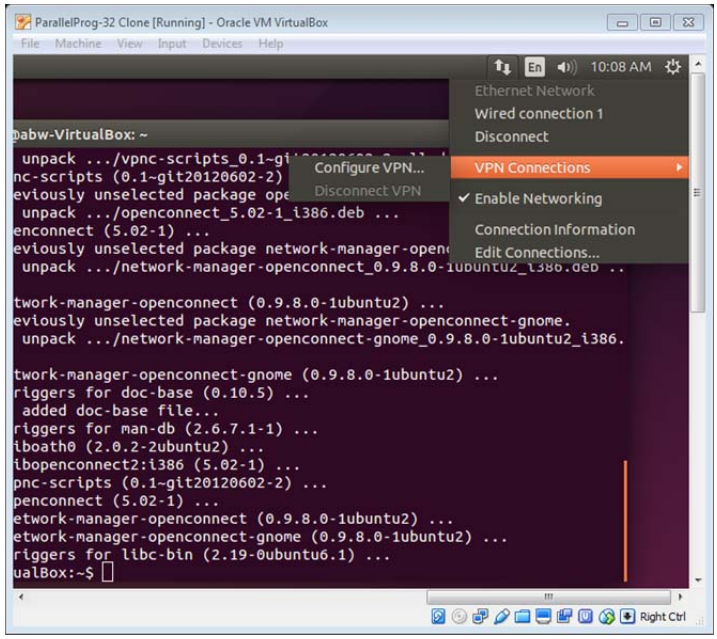
This is described at https://12vpn.net/downloads/ubuntu-14-04/

Open a terminal and execute the command:

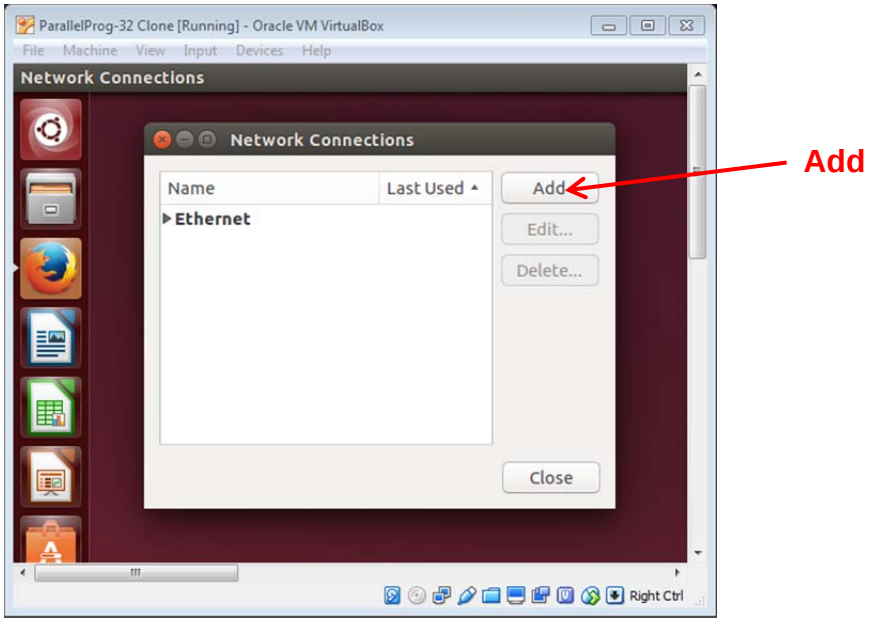
sudo apt-get install network-manager-openconnect-gnome

sudo commands will require the VM username, abw, and password, abc123.

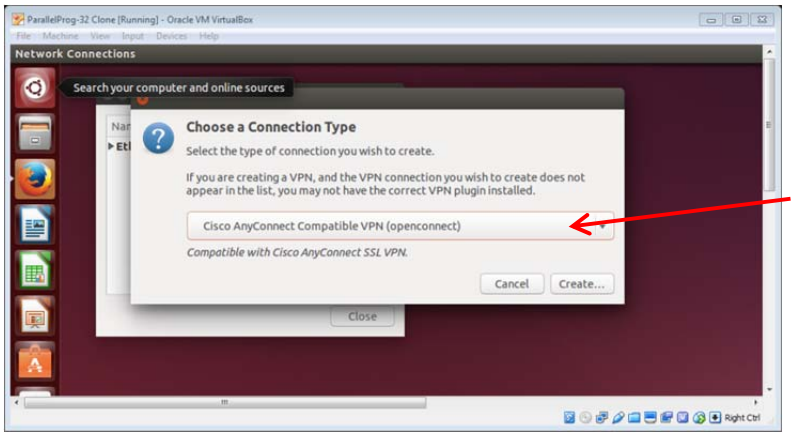
Click the Network icon at the far right of the menu bar and select **VPN Connections** > **Configure VPN...**



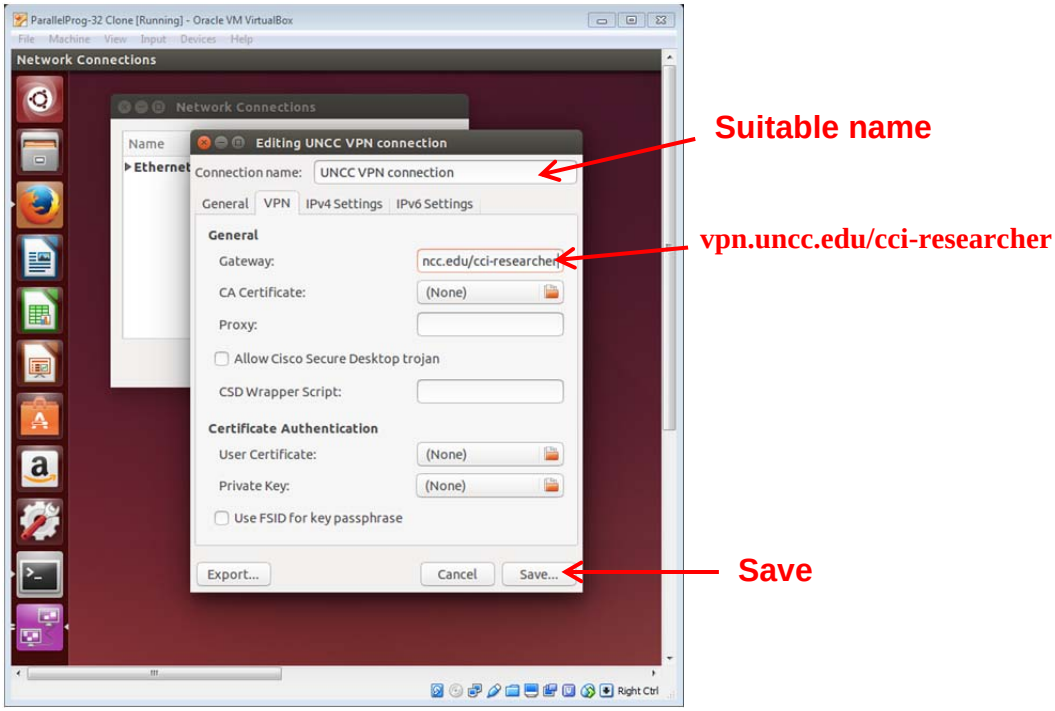
Add a new connection:



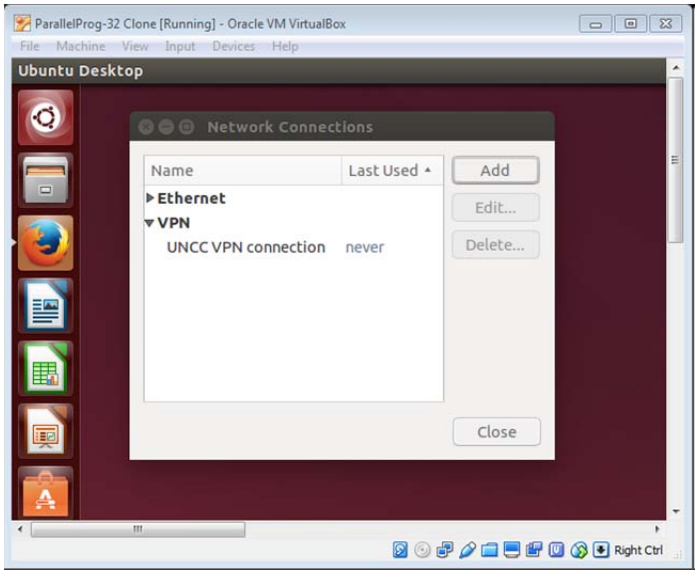
Create Cisco AnyConnect connection type:



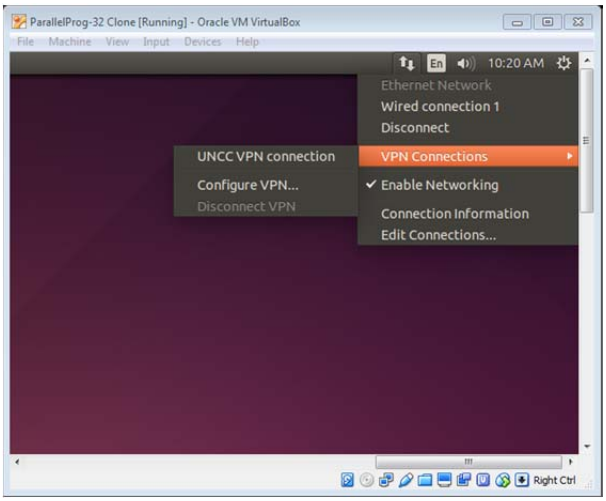
Create a connection name and put in the gateway as **vpn.uncc.edu/cci-researcher**:



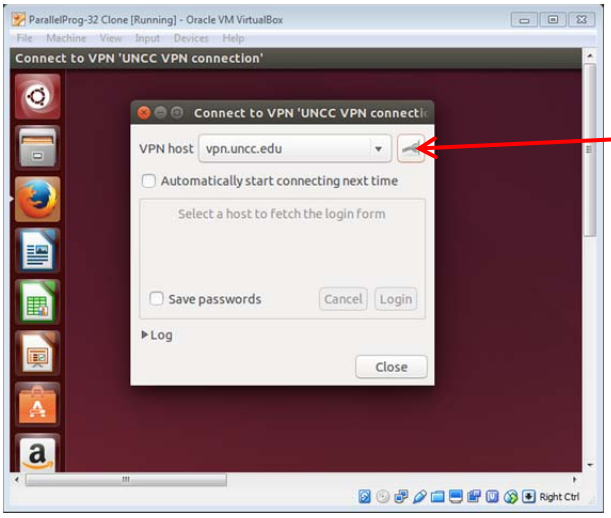
Save:



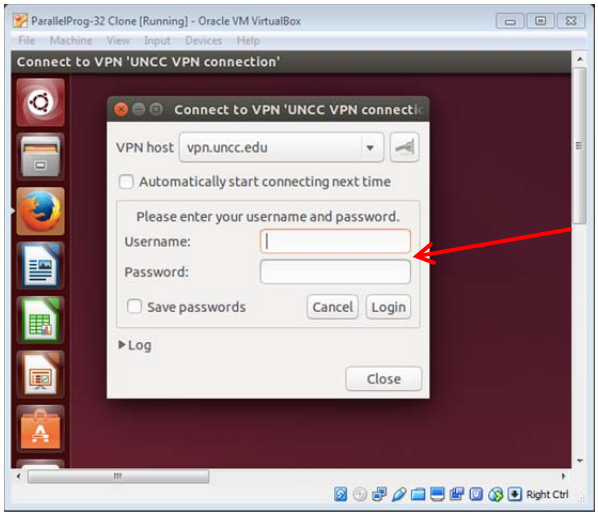
Now you should have the connection available at **VPN Connections** > **Configure VPN...**:



Connect using icon on right:



Enter your cluster credentials.



You should then get a brief pop-up message saying "VPN connection has been successfully established." You can now reach the cluster on the command line:

ssh cci-gridgw.uncc.edu –l <username>

(b) Install Cisco AnyConnect client software

(Applies to any Linux distribution, including the VM.)

Open a browser on the VM, go to http://vpn.uncc.edu and download the Linux 32-bit version of VPN client, **anyconnect-3.1 ... .gz**. Extract .gz file at a suitable location. Open a terminal and go to the directory called **vpn**.

Run the install script:

sudo ./vpn_install.sh

This will require the VM username, abw, and password, abc123.

Start VPN client with **./vpn**.

You will get the client prompt **VPN>** . Connect to **vpn.uncc.edu/cci-researcher** with the command

connect vpn.uncc.edu/cci-researcher

This will prompt for your UNCC username and password.

Open a separate terminal. You should now be able to open a separate terminal and connect to the cluster:

ssh cci-gridgw.uncc.edu –l <username>

When you have finished, the VPN connection can be disconnected on the first terminal with

disconnect

and the VPN client terminated afterwards (use VPN exit command).