Omega Server Usage Instructions for Linux (Specifically for Ubuntu/Debian based distributions, but it's similar for other Linux distributions too)

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1 Instructions

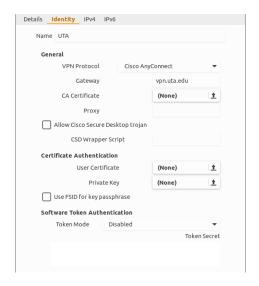
1.1 Connecting to VPN

- Install Cisco AnyConnect. This will be used to connect to the UTA VPN.

 sudo apt install network-manager-openconnect-gnome
- Add a new Cisco AnyConnect VPN connection from the settings menu (Settings → Network → '+' Button). A dialogues box as shown below will appear. Select the "Cisco AnyConnect Comaptible VPN" from the dialogue box.



• Fill in the VPN details VPN Protocol: Cisco AnyConnect Gateway: vpn.uta.edu The final VPN settings should look something like this:



• Setting up Duo

Follow this instruction page posted by Office of Information Technology (OIT) UTA on how to setup your duo account. This is a required step for authenticating to the UTA VPN [Link].

• Connect to the VPN

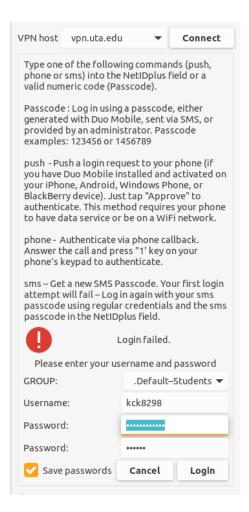
When connecting to the VPN, fill in the boxes with following details GROUP: .Default-Students

Username: Your NetID (e.g. kck8298)

Password: Your NetID Password (e.g. SuperSecretPassword)

Password: Your Duo 6-digit OTP you get from your phone. Note that you should have setup the Duo by now as instructed in previous step. (e.g. 222333)

And then press connect. You should be connected to the UTA VPN now. Example screenshot below:



1.2 Connecting to Omega Server

 Connect to Omega Server. This is an RHCE server at the time of writing this tutorial.

ssh -oKexAlgorithms=+diffie-hellman-group1-sha1 nag3506@129.107.56.23

Password is your NetID password. You can add your SSH keys if you want so that you don't have provide password everytime. You can find instructions to do so here

1.3 Syncing Code with Omega Server

There are many options to do so. Some are discussed below:

1.3.1 Using Rsync

Refer to this Link Section 2: Copy a Directory from Local Server to a Remote Server for details. Basically you can use rsync to sync your local machine folder with remote machine (Omega in our case).

1.3.2 Using Nautilus

Create a new SFTP connection in nautilus. More detailed explaination here. Basically you are using nautilus, your file manager to copy your files over to Omega.

1.3.3 Using Github

Make a private repo in github (It should be private, else your code is considered plagiarized and will be reported to honor council) and commit all your code changes there. Next in the Omega server use git pull to get all the latest changes you made. This will help you learn Git as well as provide platform to store your work for future references.

1.3.4 Using CLion

CLion is a great IDE which you can use to develop your code. CLion offers remote development and debugging options for professional users. You can get professional membership by signing up with your UTA account as a student. CLion automatically syncs your code with remote server (Omega in our case) and then builds it and then subsequently runs it too. More detailed tutorial on how to set that up is provided here.