**Install and setup prosody and Certbot**

Debian/Ubuntu installation for Prosody Chat Server and setup configuration from start to finish:

We will deploy encryption using Certbot as the provider for all our encryption needs.

You will need to download the proper version for your server as you follow along:

1. Open a terminal and make sure you are root or add as a sudoERs: In the terminal you will need to type in commad as highlited:
2. sudo apt update – this will update your sources
3. apt policy prosody – this will check to make sure if prosody is installed or not and will tell you what version you will need for your server
4. apt policy certbot - this will tell if you have certbot installed or not and which version is required for your server
5. sudo apt install prosody – this will install prosody server if not installed yet. (Skip if not needed)
6. Sudo apt install certbot – this will install certbot if not installed yet, (skip if installed)

**Configure Prosody:**

After installation you will need to configure the prosody configuration file located in /etc/prosody/prosody.cfg.lua user your favorite text editor such as nano or vim or whatever

1. Type in terminal: sudo nano /etc/prosody/prosody.cfg.lua
2. Provide your sudo password during prompt.
3. Scroll down and locate command “Vritual Host”
4. Locate line “VirtualHost” add sootsplash.csci2461.com as shown below:

**Virtualhost:**



1. Scroll down to to find line start with “admins” you need to add yourself as admin:
2. Example: user1@sample.com

**Admins:**



1. Locate line: Component and enable MUC for multiuser chat:
2. Edit line as highlighted below:

**MUC component:**



1. Add the command restrict\_room\_creation “admin” is to restrict chat room creation only to admins for the next line as shown below:
2. Add the next line –modules\_enabled = {} is for modules to available only for MUC and not available for global users.

**MUC component, add additional line:**



1. Locate line bosh and enable it by removing the comment as shown below, this will enable file sharing with other users.

**BOSH component:**



1. You will need to allow registration for anyone on the public internet since it’s a public chat server, change the command for allow\_registration = true;

**Client registration:**



1. Add additional line for security between registrations:



1. SSL configuration location, need to change as shown below:

**SSL Configuration:**

