CSCI262 Spring 2024 - Preliminary Lab

Laboratory Preliminaries

This is preliminary material that should be completed at the start of the first lab. Some of it can be done prior to the lab. Those of you unfamiliar with Unix should follow the instructions quite explicitly. There is a file `UnixHelp.pdf` with some of the useful Unix functions. If you are unsure what is going on, please ask for help in the lab!

1. You should be recording solutions in an appropriate form, either on paper or in a file. You don't need to submit this but it will be useful to have notes to refer back to and do the quiz of the lab to get mark.

2. This lab is Unix based, students need to be connected to Capa. Before connecting to Capa, it is necessary to contact to vpn first. You can set up your PC to connect to vpn following this guide:

   `https://uowedu.service-now.com/kb?id=kb_article_view&sys_kb_id=e04989cbdbe53c502b658e35059619f4`

3. Now, to connect to Capa you can use `Bitvise SSH Client`.

   It's installed on the lab computers and the installer is available from here `https://www.bitvise.com/ssh-client-download`. You should connect to the server `capa.its.uow.edu.au`. Use your SOLS username and specify password as the method as per the Moodle site statement near Bitvise. This should come up with a query relating to the server identity. The fingerprint should match that specified at the link listed on Moodle.

   Provided it does, you can select `Yes`.

4. Once you have connected you will be in your home directory. You can use `pwd`, present working directory, to determine where you are at any particular time.

   ```
   $ pwd
   /home/partha
   ```

5. For testing your implementation on Capa then you need to transfer them to Windows using the `File Transfer`

   in the `Bitvise SSH Client`.

6. With text files you can read them using something like `cat` or `less` or `more`.

   You can view the password file using

   ```
   $ cat /etc/passwd
   ```

   If you view the shadow file, then you will get this

   ```
   $ cat /etc/shadow
   cat: /etc/shadow: Permission denied
   ```