How to get connected to one of the machines in the Lab:

We use lab computers for the CS166 course. We will share a spreadsheet where you will be assigned to a specific lab machine. Please check your name in the spreadsheet and the assigned machine. You have to access the assigned machine via your CS account.
Please make sure you have access to your CS account within the next week (before Lab 2).

Access to CS account:

- Log in to *bolt.cs.ucr.edu* with your CS account using SSH. Instructions on logging in to bolt via SSH are here: https://sites.google.com/a/ucr.edu/cse-instructional-support/home/accounts
- If you have access to your CS account, follow the instructions for logging into your account remotely.
- If you don't yet have a CS account, or have forgotten the password for that account, you can set your password as follows:
  a) Connect to UCR's **GlobalProtect** VPN. Information on how to set up the VPN client is available on ITS' support site at UCR VPN Instructions and further information on troubleshooting VPN connections is available at VPN Access and Troubleshooting.
  b) Once connected to UCR's GlobalProtect VPN, load https://password.cs.ucr.edu/ in a web browser and follow the instructions to log in to our CS Password Reset page with your UCR R'Mail account. Once you're logged in to our CS Password Reset interface, carefully follow the instructions (what types of characters are necessary, which symbols are allowed, etc.) to set your new CS password. Note that setting your CS password will not affect your UCR account since your UCR account and your CS account are completely separate.
  c) A few minutes after successfully setting your CS password, you should be able to log in CS servers via SSH using your UCR NetID as the username and the CS password you set in the previous step.

Access to Lab computers:

1) Once you have access to your CS account, open a terminal on bolt. If you are a Windows user, you can either open the X2Go client and use the terminal there, or you can use the MobaXterm terminal. All users, please follow the instructions here: Logging into your account remotely.
2) In the bolt terminal, run the following command:
   ssh <machine_name>
   You have to give your CS account password to login to the lab machine. The machine_name should be the assigned machine in the spreadsheet.

Work in the lab computers:

1) Once you login to your assigned lab machine, a folder with your NetID will be created in /extra/ folder in the machine. For example, if your NetID is user001 and your assigned machine is wch127-01, after logging in your terminal will look as follows:

   ```
   user001@wch127-01 $
   ```

   Run the following command there:

   ```
   user001@wch127-01 $ cd /extra/user001
   ```

   Replace "user001" in the above command with your NetID.

2) Follow the instructions here to copy files from your bolt account to lab machines and from lab machines to your bolt account.
   a) If you copy any files to the "/extra/NetID" directory, it will be persistent after you log out.
      For example, if you have a file named as "file.txt" in home directory of your bolt account, copy the file to the /extra/user001 directory using the following command:

      ```
      user001@wch127-01 $ scp bolt:~/file.txt wch127-01:/extra/user001
      ```

      You will be prompted to give passwords for your bolt account and the lab machine. In both cases, it will be your CS password.

      Note: If you discard "/extra/NetID" in the above command, files will be copied to the home directory of lab machines. Files in the home directory are not persistent.

   b) To submit the lab assignments, you will need to copy the files you work on in the lab machines to your bolt account.
      For example, you have a file named "script.sql" in the "/extra/user001" directory. You can locate and copy the file to your CS bolt account using the following commands:

      ```
      user001@wch127-01 $ cd /extra/user001
      user001@wch127-01 $ ls
      file.txt script.sql
      user001@wch127-01 $ scp script.sql bolt:~
      ```

      You can then find the script.sql file in the home directory of your bolt account.

3) Alternatively, if you are a Windows user, you can use WinSCP to drag and drop files between your bolt account and the lab machine. Follow the link here.