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# EE25900

The following is a documentation for the Fall 2018 EE25900 course – Programming for Electrical Engineers.

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**/\***

Comments anything inside of it.

Comments multiple lines

until it is closed!!!!

**\*/**

**//** comments anything on a line after **//** is placed

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**/\***

## **FOR MAC USERS ONLY**

**Go to: <https://osxfuse.github.io>**

- 1) Download (FUSE for macOS 3.8.2)
- 2) Install
- 3) Type on terminal **pwd**

pwd – print working directory

It should look like **/Users/username**

where **username** varies according to the name given when the user first set up their MAC

For example, **username** can be **johndoe**

Therefore, after typing **pwd**, the terminal should display **/Users/johndoe**

- a. Type **cd Desktop**
- b. Type **mkdir mnt**

- 4) Reboot or Restart computer
- 5) Open Terminal
- 6) cd Desktop

**/home/username to your local: mnt**                      mount remote

**username** is CCNY login ID. For example, **janedoe000**

**xxx.xx.xxx.xx**    the address to login

**xxx.xx.xxx.xx** can be 134.74.228.**71**                      the last 2 digits between **48 – 79**

**\*/**

**//** Type on terminal

**sshfs username@xxx.xx.xxx.xx:/home/username@itcs.ccny.lan mnt**

**// ----- UPDATE -----**

**sshfs username@xxx.xx.xxx.xx:/ee259/username mnt**

**// ----- UPDATE -----**

**// username** is CCNY login ID. For example, **janedoe000**

**//** If prompt for password, please enter **citymail password**

**// Notice** that if it is taking a long time press **Control + Z** to abort

**/\***

**Notice** that the user must be under the directory **/Users/username/Desktop**  
For files to be mounted.

**Notice** that if it is taking a long time press **Control + Z** to abort  
**Try again** changing the last two digits from **48-79**

Type on terminal

**sshfs username@xxx.xx.xxx.xx:/home/username@itcs.ccny.lan mnt**

**// ----- UPDATE -----**

**sshfs username@xxx.xx.xxx.xx:/ee259/username mnt**

**// ----- UPDATE -----**

**username** is CCNY login ID. For example, **janedoe000**

If error is given, it may be because of two reasons

1) 2 or more access keys have been stored in user's MAC. To fix this do the following.

a. Type on terminal

```
sudo nano /Users/username/.ssh/known_hosts
```

**username** is MAC's username. For example, **johndoe**

i. Once in a while when user uses **sudo**, user must insert its MAC's password. **Press Control + K or Ctrl + K to cut the lines displayed. Press Control + X or Ctrl + X to save, press y and then Enter**

b. Try again. Type on terminal

```
sshfs username@xxx.xx.xxx.xx:/home/username@itcs.ccny.lan mnt
```

```
// ----- UPDATE -----
```

```
sshfs username@xxx.xx.xxx.xx:/ee259/username mnt
```

```
// ----- UPDATE -----
```

**username** is CCNY login ID. For example, **janedoe000**

2) Files may have been already mounted. Therefore, there is an internal conflict.

Try:

a. To **unmount** type on terminal

```
sudo diskutil unmount force ~/Desktop/mnt # unmount
```

i. Type MAC's user password if prompted. A prompt of success will be displayed after if done correctly

b. Try again. Type on terminal

```
sshfs username@xxx.xx.xxx.xx:/home/username@itcs.ccny.lan mnt
```

```
// ----- UPDATE -----
```

```
sshfs username@xxx.xx.xxx.xx:/ee259/username mnt
```

```
// ----- UPDATE -----
```

**username** is CCNY login ID. For example, **janedoe000**

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**/\***

**After files are mounted, the user must ssh to EE259 server**

Type on terminal

**ssh username@xxx.xx.xxx.xx**

**xxx.xx.xxx.xx**

where xxx.xx.xx. is always **134.74.228**

and **.xx** the last 2 digits between **48 – 79**

**username** is CCNY login ID. For example, **janedoe000**

Type citymail password when prompted. Once logged in the following will be display

**[eesfcxx.engr.ccny.cuny.edu:23][/home/username@itcs.ccny.lan]**

**username** is CCNY login ID. For example, **janedoe000**

where **xx** the last 2 digits between **48 – 79**

**\*/**

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**// Home directory**

**// Type the following command on terminal**

**cd /ee259/username**

**// username** is CCNY login ID. For example, **janedoe000**

**// Home directory**

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**// Make a directory**

Type on terminal

**mkdir pro\_0**

**// Make a directory**

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## // Accessing a directory

Type on terminal

**cd pro\_0**

## // Accessing a directory

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## // Copying

**/\***

\* means all files  
  . means (HERE!)

**\*/**

Type on terminal

**cp /ee259/tools/pro\_0/\* .**

## // Copying

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## // List all files, directories under that directory

Type on terminal

**ls**

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## // List all files, directories under that directory with permissions drwxr-xr-x+

Type on terminal

**ls -ltr**

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### **// Renaming a file**

// Rename the file **test** for the name **test\_0**

Type on terminal

**mv test test\_0**

### **// Renaming a file**

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**// Copy the file in\_0\_0 and paste it in in.0**

// Type on terminal

**cp in\_0\_0 in.0**

**// Copy the file in\_0\_0 and paste it in in.0**

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### **// Compiling Programs**

// Type on terminal

**c++ main0\_1.cc**

### **// Compiling scripts**

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**// To run scripts**

**// Type on terminal**

**a.out**

**// To run scripts**

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**// Outputs the context of the out.0 file in the terminal**

**// Type on terminal**

**more out.0**

**// Outputs the context of the out.0 file in the terminal**

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**// Comparing the output of two files**

**// the context of the output file out\_0\_1 is compared with the context of the output file out.0**  
**// If the context of the output files is the same, no errors are displayed.**

**// Type on terminal**

**diff -w out\_0\_1 out.0**

**// Comparing the output of two files**

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## // Submitting a Project

### // 2 ways

#### // Way #1

// Type on terminal

**submit -f /ee259/username/pro\_0/p0.h -p P0** //way #1

// **username** is CCNY login ID. For example, **janedoe000**

#### // Way #2

// Type on terminal

**/ee259/tools/submit -f p0.h -p P0** //way #2

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## // Submitting a Project

### // Deleting a directory

```
/*  
    mydir is the name of the directory to remove  
    Type on terminal  
*/  
    rm -rf mydir
```

### // Deleting a directory

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### // Deleting a file

```
/*  
    test_0.0 is the name of the file to be removed  
    Type on terminal  
*/  
    rm -rf test_0.0
```

### // Deleting a file \*/

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**// To exit the EE259 server**

// Type on terminal

**exit**

**// To exit the EE259 server**

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**// To unmount**

// After exiting the server, type on terminal

**sudo diskutil unmount force ~/Desktop/mnt #unmount**

**// To unmount**

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