

# Modeling Technology Transfer Notes

## Connect to tech-transfer Master Node

Ssh <accountID>@tech-transfer.aws.chesapeakebay.net

Account ID's:

Student Accounts: student[1-20]

Passwords

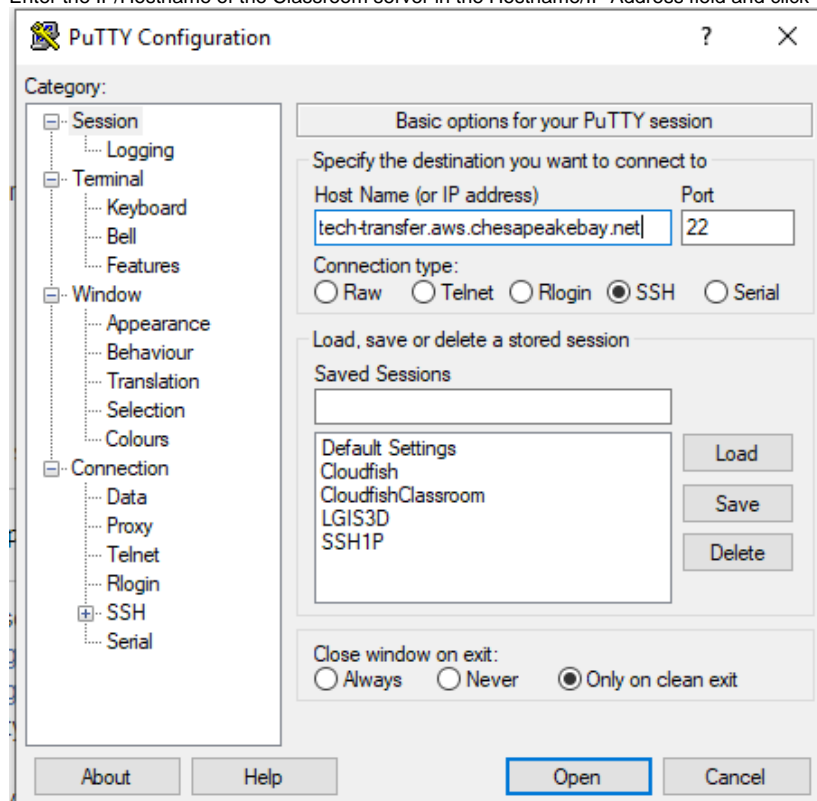
<AccountName>123# – No space between the account number and the extra characters in your password.

## Basic Model Run Instructions

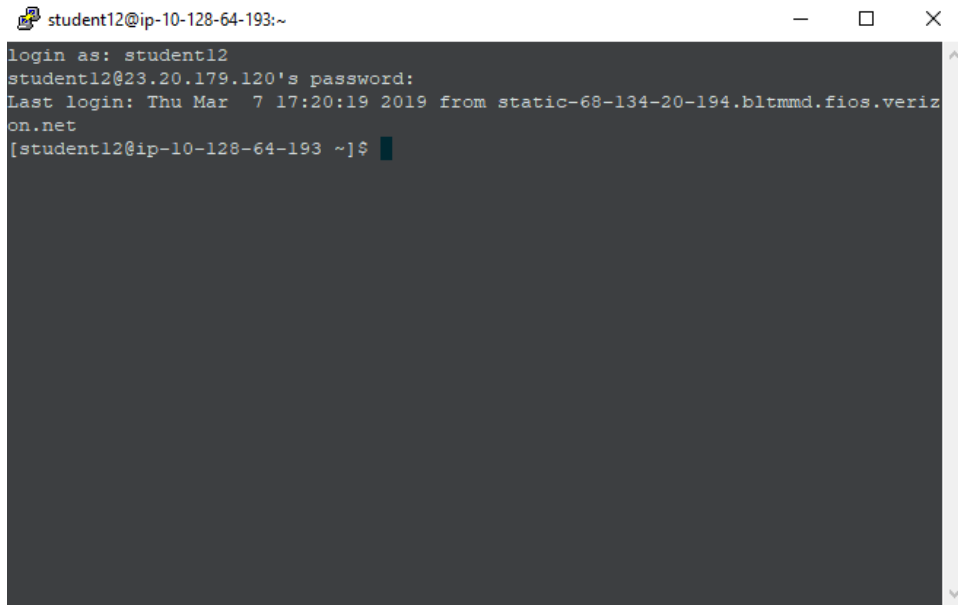
### Connect to the Classroom Linux Instance

1. Connect to the Classroom machine.
  - a. On OSX/Linux enter the following in a new terminal session.

```
ssh <accountID>@tech-transfer.aws.chesapeakebay.net
```
  - b. On Windows, Open Putty, the links below can be used to download the software if necessary.
    - i. 64 bit Direct Download: <https://the.earth.li/~sgtatham/putty/latest/w64/putty.exe>
    - ii. 32 bit Direct Download: <https://the.earth.li/~sgtatham/putty/latest/w32/putty.exe>
    - iii. The download links above do not require putty to be installed, and can be run directly from your Downloads directory
  - c. Open Putty and connect to tech-transfer Linux host.
    - i. Enter the IP/Hostname of the Classroom server in the Hostname/IP Address field and click "Open" at the bottom of the window.



d. Enter your student user id and password when prompted.

A terminal window titled 'student12@ip-10-128-64-193:~' with standard window controls. The terminal shows a login sequence: 'login as: student12', 'student12@23.20.179.120's password:', and a successful login message: 'Last login: Thu Mar 7 17:20:19 2019 from static-68-134-20-194.bltnmmd.fios.verizon.net'. The prompt is '[student12@ip-10-128-64-193 ~]\$' with a cursor.

```
student12@ip-10-128-64-193:~  
login as: student12  
student12@23.20.179.120's password:  
Last login: Thu Mar 7 17:20:19 2019 from static-68-134-20-194.bltnmmd.fios.verizon.net  
[student12@ip-10-128-64-193 ~]$
```

### 30Box Model Compilation

1. Once Connected to the Cloudfish-Classroom cluster, download the source for the 30box model
  - a. Copy and paste the following command in your terminal session (with putty paste is right click)

```
sh /modeling/util/load_projects.sh
```

2. Compile the Model code.
  - a. Enter the source Directory

```
cd 30box/for_epa_121418/src
```

- b. Run the compilation script.

```
sh compile.sh
```

- c. Go back one directory to access your compiled application.

```
cd ../
```

### Run the 30Box Model Using SLURM

```
srun -nl wqm
```