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

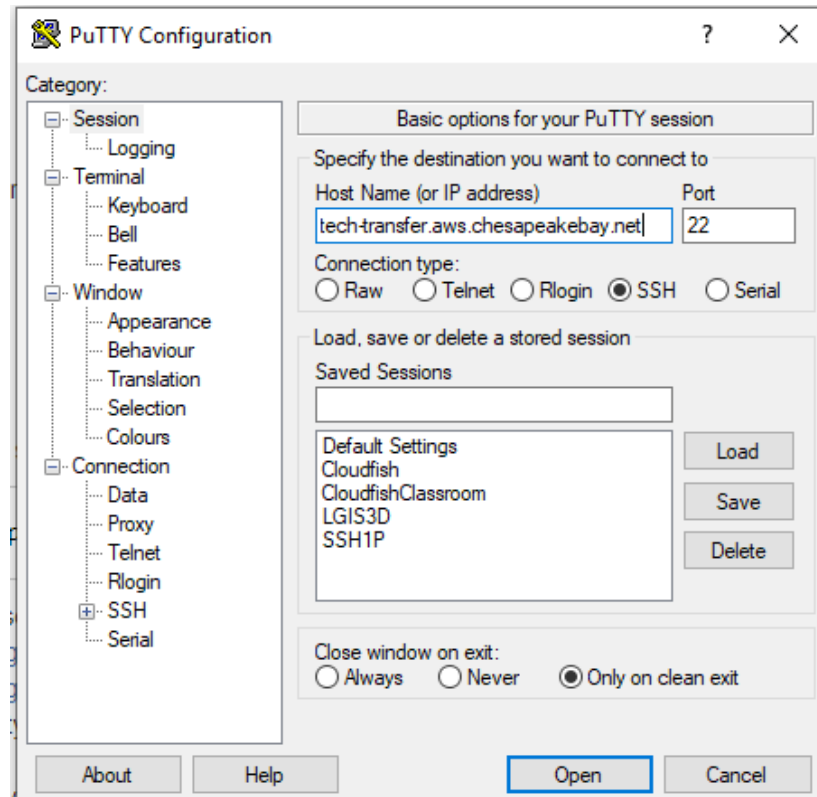<AccountName>123#   – No space between the account number and the extra characters in your password.

Basic Model Run Instructions

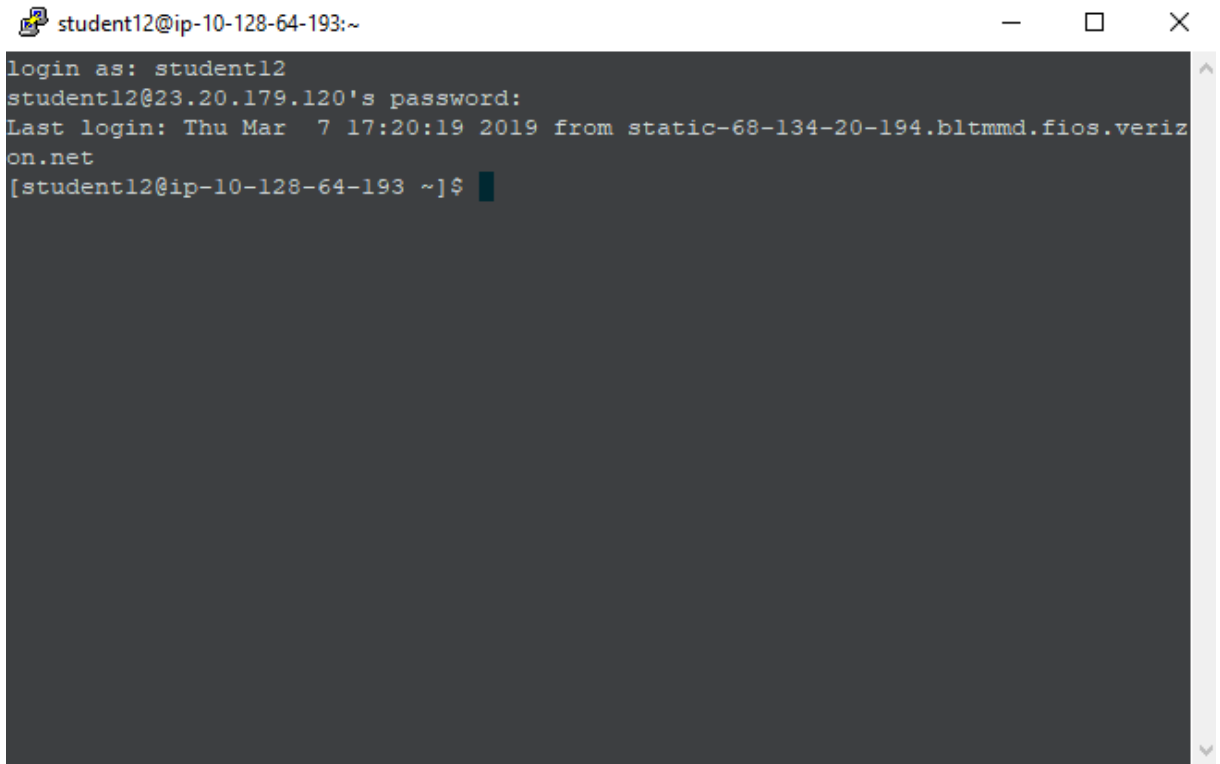### Connect to the Classroom Linux Instance

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.


```
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.bltmmd.fios.veriz
on.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)

   ```
   aws s3 cp s3://cloudfish-classroom.chesapeakebay.net/ .
   --recursive
   ```

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 -n1 wqm
```