

Setting up Jupyter Notebook on Super Mike 2

Step 0: Download and Install MobaXterm (for Windows only)

- <https://mobaxterm.mobatek.net/download-home-edition.html>
 - Either edition is okay (installer recommended)

MobaXterm Home Edition

Download MobaXterm Home Edition (current version):

 MobaXterm Home Edition v10.5
(Portable edition)

 MobaXterm Home Edition v10.5
(Installer edition)

Download previous stable version: [MobaXterm Portable v10.4](#) [MobaXterm Installer v10.4](#)

You can also get early access to the latest features and improvements by downloading MobaXterm Preview version:

[MobaXterm Preview Version](#)

By downloading MobaXterm software, you accept [MobaXterm terms and conditions](#)

You can download MobaXterm and plugins sources [here](#)

 If you use MobaXterm inside your company, you should consider subscribing to [MobaXterm Professional Edition](#): your subscription will give you access to professional support and to the "Customizer" software. This customizer will allow you to generate personalized versions of MobaXterm including your own logo, your default settings and your welcome message. Please [contact us](#) for more information.

Step 1a: Connect to Super Mike 2

- Launch MobaXterm and click on “start local terminal”



MobaXterm

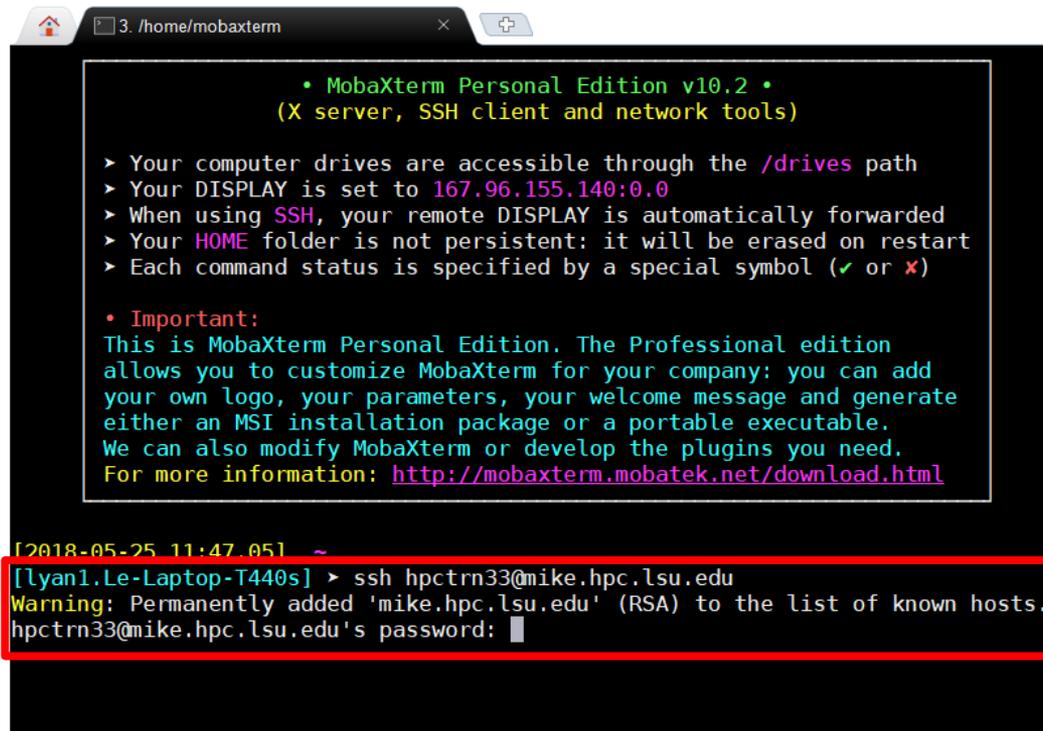
+ Start local terminal

↻ Recover previous sessions

Find existing session or server name...

Step 1b: Connect to Super Mike 2

- Type “ssh <user name>@mike.hpc.lsu.edu”
- Type in the password
 - Your keyboard input will NOT echo back



```
3. /home/mobaxterm
• MobaXterm Personal Edition v10.2 •
(X server, SSH client and network tools)

> Your computer drives are accessible through the /drives path
> Your DISPLAY is set to 167.96.155.140:0.0
> When using SSH, your remote DISPLAY is automatically forwarded
> Your HOME folder is not persistent: it will be erased on restart
> Each command status is specified by a special symbol (✓ or ✗)

• Important:
This is MobaXterm Personal Edition. The Professional edition
allows you to customize MobaXterm for your company: you can add
your own logo, your parameters, your welcome message and generate
either an MSI installation package or a portable executable.
We can also modify MobaXterm or develop the plugins you need.
For more information: http://mobaxterm.mobatek.net/download.html

[2018-05-25 11:47:05] ~
[lyan1.Le-Laptop-T440s] > ssh hpctrn33@mike.hpc.lsu.edu
Warning: Permanently added 'mike.hpc.lsu.edu' (RSA) to the list of known hosts.
hpctrn33@mike.hpc.lsu.edu's password: █
```

Step 2: Download Files for The Boot Camp

Type:

```
git clone https://github.com/lsuhpchelp/lbrnloniworkshop2018.git
```

```
[lyan1@mikel repos]$ git clone https://github.com/lsuhpchelp/lbrnloniworkshop2018.git
Cloning into 'lbrnloniworkshop2018'...
remote: Counting objects: 426, done.
remote: Compressing objects: 100% (30/30), done.
remote: Total 426 (delta 20), reused 20 (delta 8), pack-reused 388
Receiving objects: 100% (426/426), 22.09 MiB | 17.55 MiB/s, done.
Resolving deltas: 100% (192/192), done.
```

Step 3: Start An Interactive Job Session

If your training account is hpctrn01 to hpctrn32, type:

```
qsub -I -l walltime=12:00:00,nodes=1:ppn=16 -q shelob -A hpc_train_2018
```

If your training account is hpctrn33 to hpctrn60, type:

```
qsub -I -l walltime=12:00:00,nodes=1:ppn=16 -q training -A hpc_train_2018
```

```
[hpctrn58@mike1 ~]$ qsub -I -l walltime=12:00:00,nodes=1:ppn=16 -q training -A hpc_train_2018
qsub: waiting for job 875559.mike3 to start
qsub: job 875559.mike3 ready

-----
Running PBS prologue script
-----
User and Job Data:
-----
Job ID:      875559.mike3
Username:    hpctrn58
Group:       Users
Date:        25-May-2018 14:17
Node:        mike003 (43154)
-----
PBS has allocated the following nodes:

mike003

A total of 16 processors on 1 nodes allocated
-----
Check nodes and clean them of stray processes
-----
Checking node mike003 14:17:57
Done clearing all the allocated nodes
-----
Concluding PBS prologue script - 25-May-2018 14:17:57
-----
[hpctrn58@mike003 ~]$
```

Step 4: Launch Jupyter Notebook

Type: `jupyter-notebook --ip `hostname -a``

```
[lyan1@shelob010 ~]$ jupyter-notebook --ip `hostname -a`  
[I 11:31:28.363 NotebookApp] JupyterLab beta preview extension loaded from /usr/local/packages/python/3.6.4-anaconda/lib/python3.6/site-packages/jupyterlab  
[I 11:31:28.363 NotebookApp] JupyterLab application directory is /home/packages/python/3.6.4-anaconda/share/jupyter/lab  
[I 11:31:28.377 NotebookApp] Serving notebooks from local directory: /home/lyan1/Bootcamp2018  
[I 11:31:28.377 NotebookApp] 0 active kernels  
[I 11:31:28.377 NotebookApp] The Jupyter Notebook is running at:  
[I 11:31:28.377 NotebookApp] http://shelob010.hpc.lsu.edu:8888/?token=e7347d28d1934c5655a5e4115f495c4668282e16ac771928  
[I 11:31:28.377 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).  
[C 11:31:28.389 NotebookApp]
```

Copy/paste this URL into your browser when you connect for the first time,
to login with a token:

<http://shelob010.hpc.lsu.edu:8888/?token=e7347d28d1934c5655a5e4115f495c4668282e16ac771928>

Step 5: Connect to Jupyter Notebook

- Launch browser on your laptop
- Copy and paste the URL in your browser

① mike003.hpc.lsu.edu:8888/tree#notebooks ☆

 jupyter

Files Running Clusters

Select items to perform actions on them.

<input type="checkbox"/>	0	▼		/
<input type="checkbox"/>		day1_intro		
<input type="checkbox"/>		day1_python		
<input type="checkbox"/>		day2_git		
<input type="checkbox"/>		day2_projects		
<input type="checkbox"/>		day2_python		
<input type="checkbox"/>		README.md		