

NERSC cluster

From Server (for interactive jupyter notebooks)

1. Go to <https://jupyter.nersc.gov/>
2. You'll be taken to a sign in page. Fill in username, password and OTP here. OTP is a 6-digit one-time password (from Google Authenticator)

Sign in

Username:

nguan

Password:

.....

OTP:

Sign In

[Forgot password?](#) | [Forgot username?](#) | [MFA not working?](#)

3. Select exclusive GPU node

| | Shared CPU Node | Exclusive GPU Node | Configurable GPU |
|------------|--|--|---|
| Perlmutter | <div>start</div> | <div>start</div> | <div>start</div> |
| Cori | <div>start</div> | | <div>start</div> |
| Resources | Use a node shared with other users' notebooks but outside the batch queues. | Use your own node within a job allocation using defaults. | Use multiple compute nodes with specialized settings. |
| Use Cases | Visualization and analytics that are not memory intensive and can run on just a few cores. | Visualization, analytics, machine learning that is compute or memory intensive but can be done on a single node. | Multi-node analytics jobs, jobs in reservations, custom project charging, and more. |

4. Wait for an available node

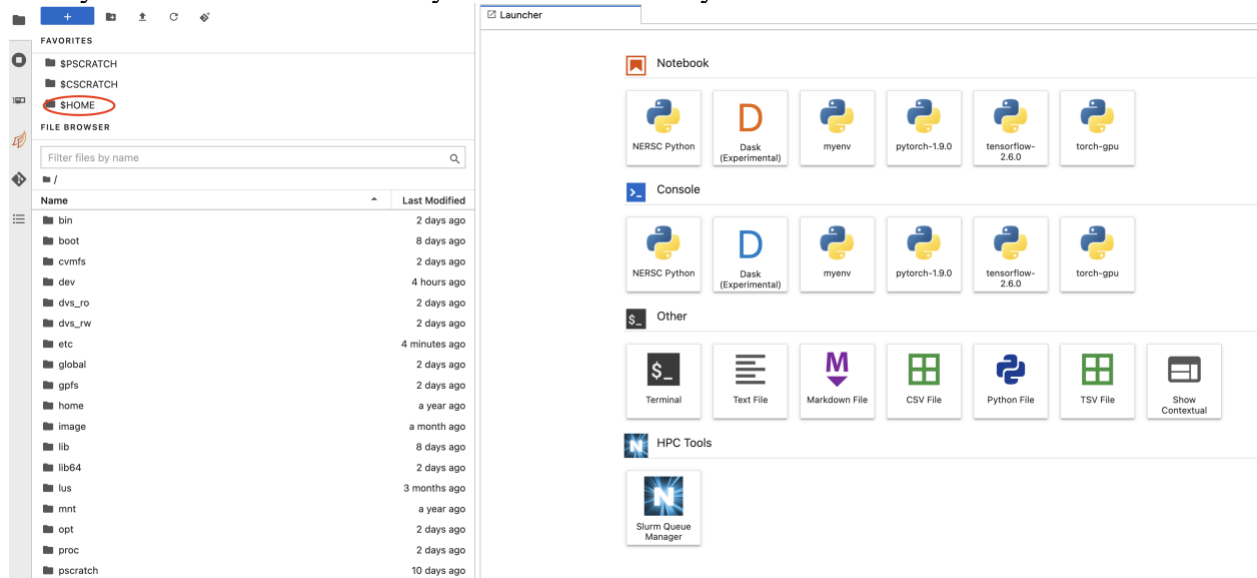
Your server is starting up.

You will be redirected automatically when it's ready for you.

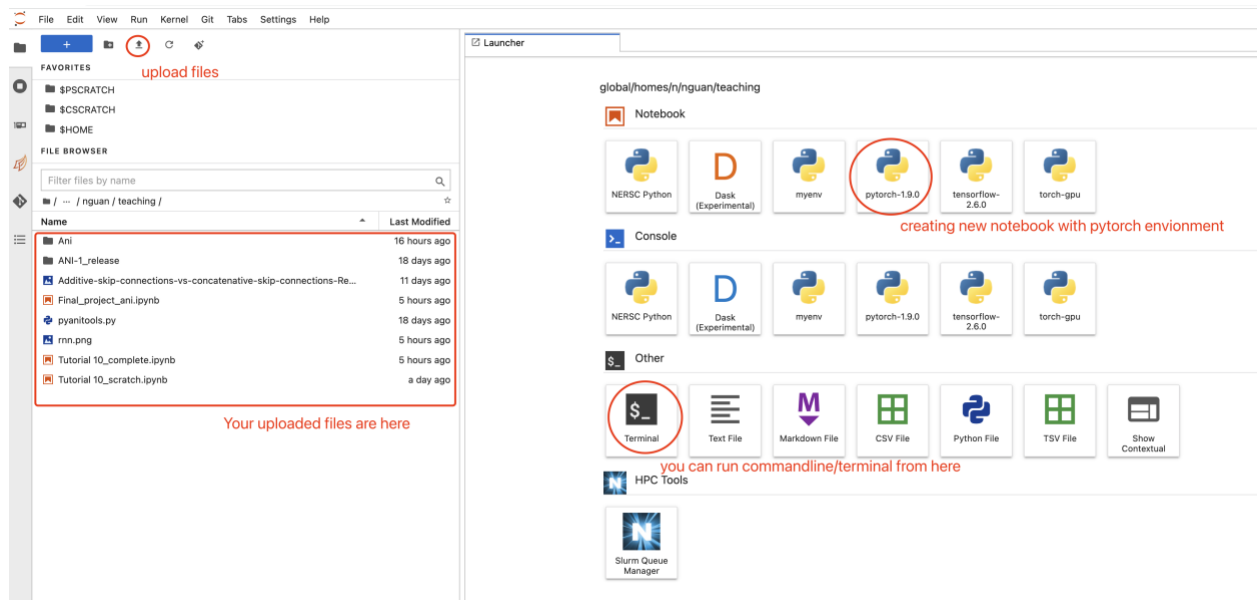
Event log

Unknown status...

5. Now you're on the server. Go to your \$Home directory first.



6. Now you can upload files, creating new notebooks, and start working! There is a built-in kernel called pytorch-1.9.0, make sure to select that for your jupyter notebook.




From Terminal (for file management)

- Log into cluster

1. **ssh *your_user_name*@cori.nersc.gov**
2. fill in your password and OTP in one entry

Login connection to host cori01 :

Password + OTP: 

- File transfer

Run these commands from your local terminal

- Download.
scp *your_user_name*@dtn01.nersc.gov:/remote/path/myfile /local/path
- Upload.
scp /local/path/myfile *your_user_name*@dtn01.nersc.gov:/remote/path
- Use **scp -r** for transferring folders.
- The remote path needs to be inside your \$HOME folder, you can find this path by running **pwd** after log into cluster. In general it should look like
/global/homes/*first_letter_of_your_user_name*/*your_user_name*