Copy of FAQ - Fast transfer between NYU NYC and NYU AD

Quick Links

HPC Home
Getting an account
Getting started on Prince
Prince How-to Articles
Logging in
Windows
Mac / Linux
Clusters and Storage
Prince (HPC)
Dumbo (Hadoop)
Brooklyn (OpenStack)
Dalmata (NYU Abu Dhabi)
<table>
<thead>
<tr>
<th>Transferri ng data to/from the clusters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transferri ng data to/from Prince cluster using Globus</td>
</tr>
<tr>
<td>Submittin g jobs with sbatch</td>
</tr>
<tr>
<td>Available software</td>
</tr>
<tr>
<td>Licensed Software Available on the HPC Cluster</td>
</tr>
<tr>
<td>Building Software</td>
</tr>
<tr>
<td>Slurm Tutorial</td>
</tr>
<tr>
<td>Tutorials</td>
</tr>
<tr>
<td>FAQs</td>
</tr>
<tr>
<td>Scratch Area Cleanup</td>
</tr>
<tr>
<td>Programming for Biologists</td>
</tr>
<tr>
<td>Acknowledg e Statement</td>
</tr>
<tr>
<td>Research Gallery</td>
</tr>
<tr>
<td>HPC People</td>
</tr>
</tbody>
</table>
Something went wrong!

Why does running "ls" on /scratch take so long?

I can't login

When trying to login, I get warnings about "HOST IDENTIFICATION HAS CHANGED"

What happened to my data on /scratch?

In the library, my wireless connection keeps dropping out. How can I fix it?

I'm getting a "module: command not found" error
Warning: no access to tty (Bad file descriptor), Thus no job control in this shell

I get an error "Warning: no display specified." when I use -X flag with ssh

Who killed my job, and why?

I got an email "Please do not run jobs on login nodes"

Running jobs

What resources can and should I request?

Can I make sure a job gets executed only after another one completes?

How do I log in to a specific node?

How can I make sure my job is running smoothly?
My job will take longer than 48 hours, what should I do?

My job needs (MySQL, some other service) to be running

I want to run a job at 9am every day

Using software

How do I run ...
(esp, needs a license)

a STAT A job?

a Gaussian job?

a Matlab job?
a parallel non MPI job (e.g. Julia)?

I can't find (some software package)

Can you install (some software package)?

How can I view a PDF file on Prince?

Managing data

How much of my file/space quota have I used?

How do I give my colleague access to my files?

How do I get the best transfer speed to or from BuTinah?
Transferring files between NYU NY and NYUAD BuTinah

For faster transfer between the HPC clusters at NYU in NYC and the BuTinah cluster at NYUAD, use `scp` over port 922. This will route the transfer over a high bandwidth ANKABUT link rather than the default low bandwidth MLPS link. The speed difference is greatest when pulling files from BuTinah to NYU NY.

Transferring many small files will still be slow - you will get better performance if you tar small files into a single archive, and transfer the tar file.

The default user environment on bowery sets an alias for `scp` which does this automatically, so in most cases you can skip over this section. If you are finding that file transfers between NYUAD and NYU are slow, you can check whether you are using the alias with `which scp`. If the response is not `/usr/local/bin/scp_wrapper.sh`, you should follow the instructions below.

You can `scp` over port 922 directly with the following commands, initiated from any of the NYU HPC clusters in NYC:

**Pushing to BuTinah:**

```
$ scp -P 922 filename NetID@butinah.abudhabi.nyu.edu:~/
```

**Pulling from BuTinah:**

```
$ scp -P 922 NetID@butinah.abudhabi.nyu.edu:~/filename .
```

Setting an alias for fast data transfer between BuTinah and NYC

To save typing this each time, and to support faster transfers between NYUAD and NYU when using `rsync`, you can prepare an alias in your `~/.ssh/config` file on the NYU HPC cluster:

```
[Host butinah]
Hostname butinah.abudhabi.nyu.edu

[Host butinah-fast]
Hostname butinah.abudhabi.nyu.edu
Port 922
```

Now you can log in to BuTinah from that HPC cluster with:

```
$ ssh butinah
```

And `scp` files to and from BuTinah over the fast link with:

```
$ scp my_data.nc butinah-fast:
```