CUIT Computing Services

This section describes the three elements to High Performance Computing (HPC) at Columbia. If the terminology below is unfamiliar to you, please see the cluster tutorial first.

Cunix

Cunix is CUIT's central server, it stands for Columbia University UNIX.

- ssh UNI@cunix.columbia.edu (you can also use cunix.cc.columbia.edu)
- use your standard columbia password

Homepage

You can host a webpage on your cunix account. Simply place files in the public_html folder for them to be accessible via a web browser. Access your page at http://www.columbia.edu/~YOUR_UNI (note the tilde – in the address). If you don't have an index.html file, you must type out the full path to see the page or document.

To copy files using SFTP, use a program such as FileZilla or WinSCP to transfer files. Login to cunix.columbia.edu using SFTP (port 22), with your UNI and password.

Groups

IMPORTANT: Group permissions for all CUIT computing resources must be set through cunix. (Not when logged into yeti, hotfoot, or other resources.)

- use group -i GROUP_NAME to view details about the group
- To add a uni or list of unis as members to a group you own, use group -m GROUP_NAME UNI_LIST where the UNI_LIST is either one uni or multiple ones wit a space between each.
- To remove a uni or list of unis from members, use group -M GROUP_NAME UNI_LIST
- To add a uni or list of unis as an owner use group -o GROUP_NAME UNI_LIST
- To remove a uni or list of unis from owners, use group -O GROUP_NAME UNI_LIST

You can then use the standard chgrp or chmod to modify ownership and permissions

Disk Space

By default, users have 50MB of storage on cunix. If you are part of Yeti, this increases to 500MB (students) or 1GB (faculty)

- Use quota to see how much space you have on cunix

Hotfoot

Disk Space

- use quota -s to get your available and used disk space in a human-readable format.

Directory Structure - in submit node vs computer node

Yeti

Disk Space

Yeti is accessible in

By default, users start with 10GB (students) or 20GB (faculty) in tmp directory, and 5GB (students) or 10GB (faculty) in work directory.

On special request, users can increase their quota to 50GB (students) or 100GB (faculty) in tmp directory, and 25GB (students) or 50GB (faculty) in work directory.

- use quota -s to see a human readable list of your space quota.

Directory Structure - in submit node vs computer node

In Yeti submit node
While logged into yeti submit, all of Yeti files are accessible via /vega/sscc/
While logged into yeti submit, all of Hotfoot files are accessible via /hotfoot/sscc/

In Yeti compute node
While working on a yeti node, all of Yeti files are accessible via /vega/sscc/
While working on a yeti node, Hotfoot files are NOT ACCESSIBLE.

Hotfoot

In Hotfoot submit node
While logged into hotfoot submit, all of Hotfoot files are accessible via /hpc/sscc/

in Hotfoot compute node
While working on a hotfoot node, all of Hotfoot files are accessible via /hpc/sscc/