

Getting started with NCAR systems

Once you are authorized to use NCAR compute and storage resources, and you have [an account and the necessary software](#), you can follow the procedures described below to log in.

These pages provide information on compiling your code, submitting jobs, and performing other common tasks *on all NCAR resources* unless otherwise noted:

- [Compiling code](#)
- [Starting and managing jobs with PBS](#)
- [Managing your allocation](#)

Additional [Derecho-specific documentation](#) is in development.

Also see: [New user orientation](#)

Don't run sudo on NCAR systems

If you need help with tasks that you think require **sudo** privileges, or if you aren't sure, please contact [HPC User Support](#) before trying to run sudo yourself. The command fails when unauthorized users run it and sends a security alert to system administrators.

Logging in

To log in, start your terminal or Secure Shell client and run an **ssh** command as shown here:

```
ssh -X username@system_name.ucar.edu
OR
ssh -X username@system_name.hpc.ucar.edu
```

Some users (particularly on Macs) need to use **-Y** instead of **-X** when calling SSH to enable X11 forwarding.

You can use this shorter command if your username for the system is the same as your username on your local computer:

```
ssh -X system_name.ucar.edu
OR
ssh -X system_system_name.hpc.ucar.edu
```

After running the ssh command, you will be asked to authenticate to finish logging in.