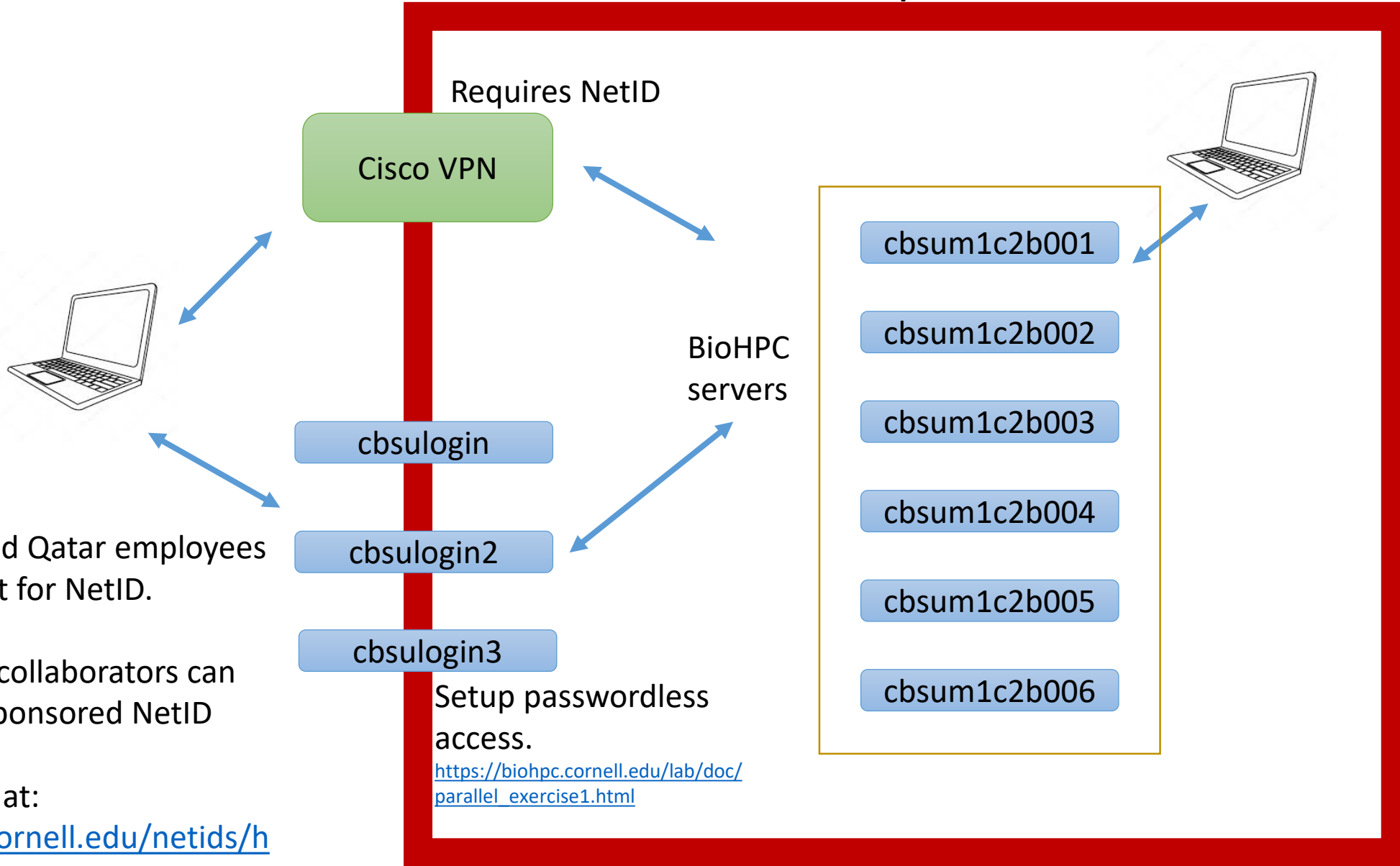


Connection to BioHPC computers

Ithaca Campus Firewall



All Weill and Qatar employees can request for NetID.

All Cornell collaborators can apply for sponsored NetID

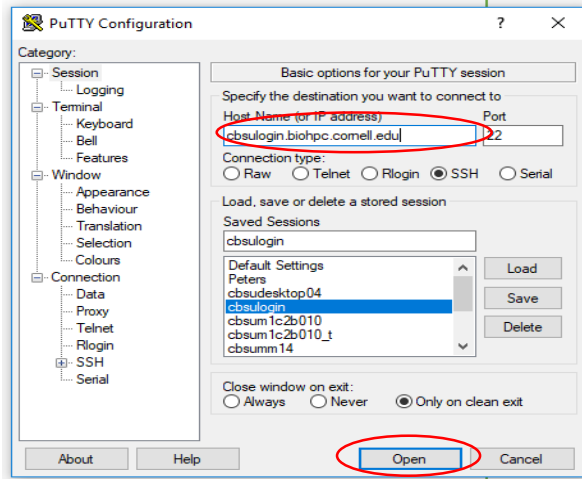
See details at:

<https://it.cornell.edu/netids/how-request-sponsored-netid>

Connect to the computing machine through “cbsulogin.biohpc.cornell.edu”

Windows user:

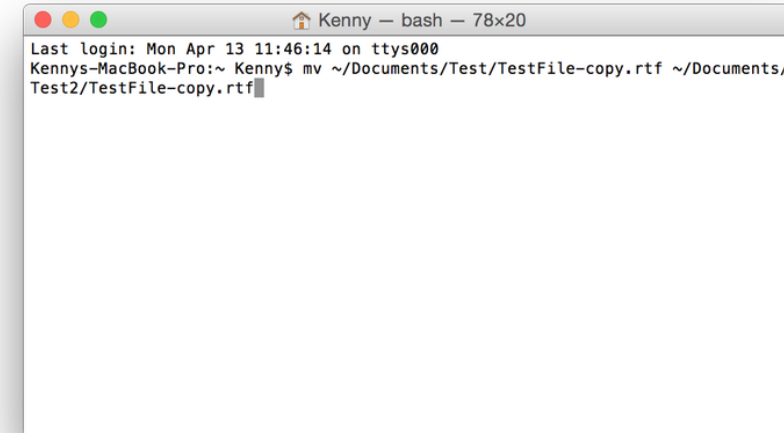
Open putty:



Host: cbsulogin.biohpc.cornell.edu
Click “Open”

Mac user:

Open terminal:



Type (replace xxx with your user ID):

```
ssh xxx@cbsulogin.biohpc.cornell.edu
```

After you are login to cbsulogin, type the command:
ssh cbsuxxxxxx

If you use Cornell VPN, you can connect to the computing machine directly

<https://it.cornell.edu/cuvpn>

The screenshot shows a web browser window with the URL `it.cornell.edu/cuvpn`. The page header includes the Cornell University logo and the IT@Cornell logo. The navigation menu contains links for SERVICES, SUPPORT, SECURITY & POLICY, TEACHING & LEARNING, NEWS, and ABOUT US. Below the navigation is a search bar and two dropdown menus labeled "Login Links" and "Services for...". The main content area features the heading "CU VPN" and the subtext "Secure connection to Cornell's IT resources hosted on campus". A paragraph explains that the VPN service provides an added layer of security for accessing campus-hosted services. A light blue box contains a security warning: "For security reasons, a CU VPN session is limited to 10 hours, after which you will need to reconnect and re-authenticate." On the right side, there are three blue buttons: "Install CU VPN" (circled in red), "Connect to CU VPN", and "Test CU VPN Before You Travel".

Storage

/workdir: physically located on each BioHPC computer

/home: shared network drive, do not compute large files directly



Common commands:

`cd` : change directory

`ls -l` : list content in directory

`pwd`: get content in directory

PATH: for file or directory

Absolute path: `/workdir/qisun`

Relative path: `qisun`

Run software:

STAR myfile

“screen”

If your software takes long time to finish, you need to run it in “screen” persistent session.

Regular session

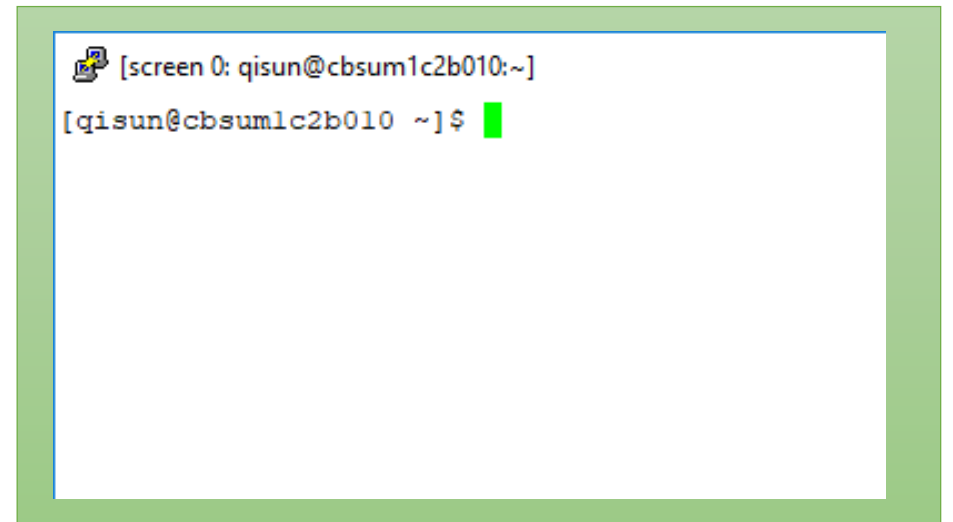
A terminal window with a blue border. The prompt is `qisun@cbsum1c2b010:~` and the command prompt is `[qisun@cbsum1c2b010 ~]$` with a green cursor.

screen (-r)



Ctrl-“a” “d”

Screen “persistent” session

A terminal window with a green border. The prompt is `[screen 0: qisun@cbsum1c2b010:~]` and the command prompt is `[qisun@cbsum1c2b010 ~]$` with a green cursor.