Workshop setup at CCR

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Workshop checklist

Before the workshop begins, please ensure that you have followed emailed instructions from CCR to do the following:

- installed the UB VPN software on your own computer
- signed into the UB VPN software
- logged on to CCR and changed your CCR password
- verified your access to OnDemand at CCR

Quick Setup at CCR

This quick setup will prepare your account, settings, and directories for the workshop.

We will walk through these steps together during the workshop introduction session. Please carry them out in your own account!

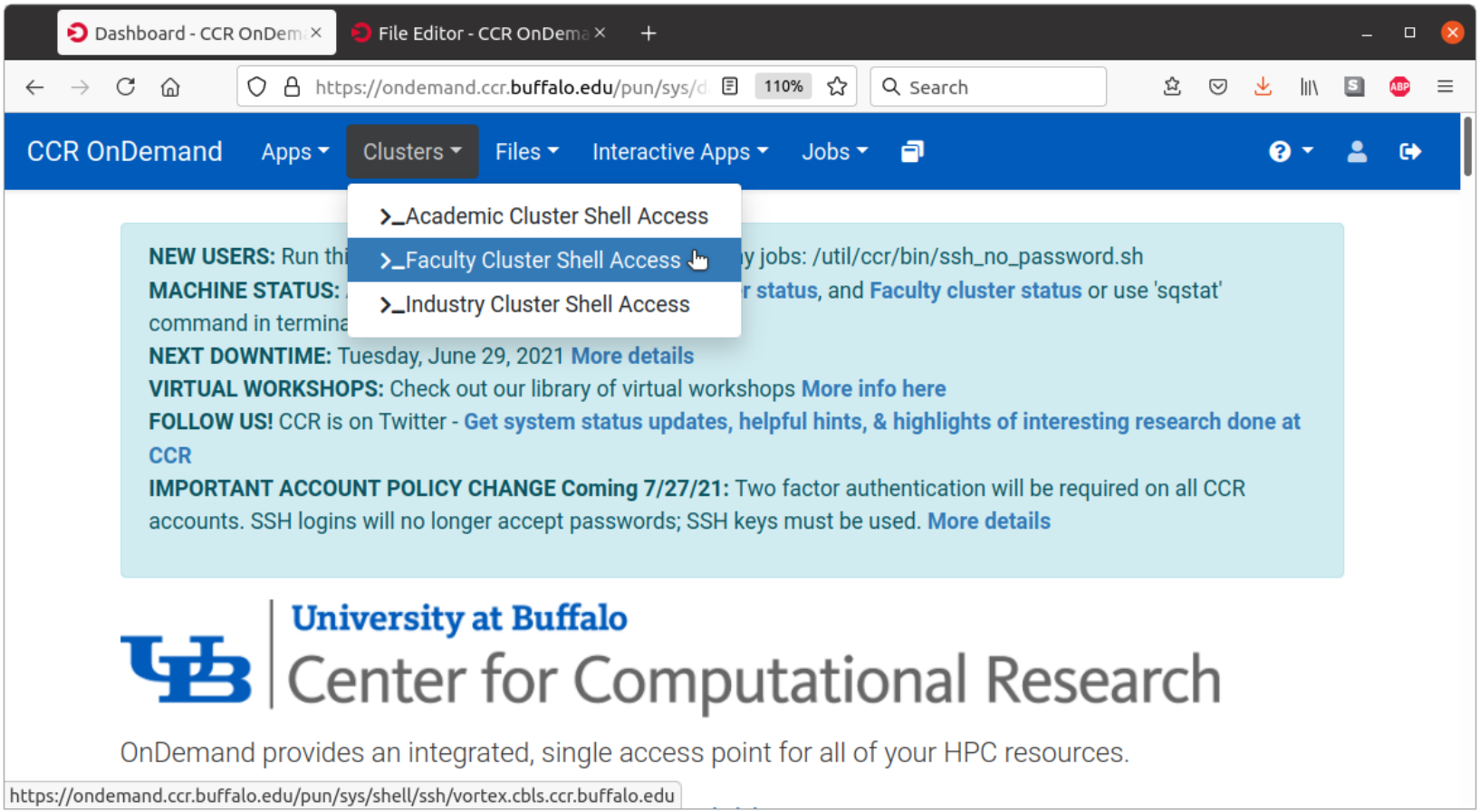
Any problems, issues, or questions, please Slack or raise your hand.

Sign on

1. Connect to UB VPN (use your VPN password)

2. Sign in to OnDemand (use your CCR password): https://ondemand.ccr.buffalo.edu.

3. In the OnDemand window, click `Clusters -> Faculty Cluster Shell Access` to open a shell, as shown:

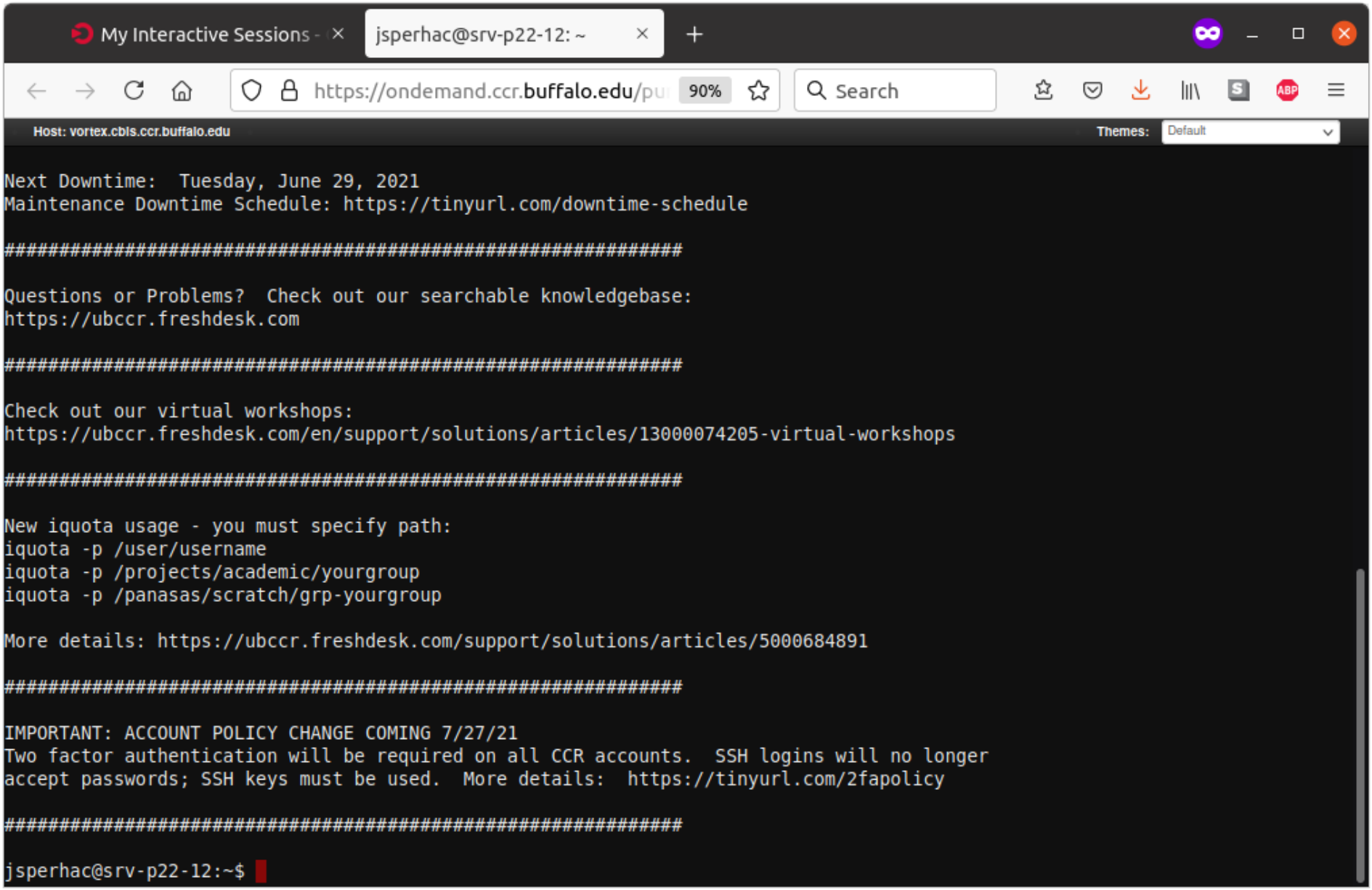

Dashboard - CCR OnDem
File Editor - CCR OnDema
https://ondemand.ccr.buffalo.edu/pun/sys/d
110%
Search
CCR OnDemand
Apps
Clusters
Files
Interactive Apps
Jobs
>_Academic Cluster Shell Access
>_Faculty Cluster Shell Access
>_Industry Cluster Shell Access
NEW USERS: Run thi
y jobs: /util/ccr/bin/ssh_no_password.sh
MACHINE STATUS:
r status, and Faculty cluster status or use 'sqstat'
command in termina
NEXT DOWNTIME: Tuesday, June 29, 2021 More details
VIRTUAL WORKSHOPS: Check out our library of virtual workshops More info here
FOLLOW US! CCR is on Twitter - Get system status updates, helpful hints, & highlights of interesting research done at CCR
IMPORTANT ACCOUNT POLICY CHANGE Coming 7/27/21: Two factor authentication will be required on all CCR accounts. SSH logins will no longer accept passwords; SSH keys must be used. More details
University at Buffalo
Center for Computational Research
OnDemand provides an integrated, single access point for all of your HPC resources.
https://ondemand.ccr.buffalo.edu/pun/sys/shell/ssh/vortex.cbls.ccr.buffalo.edu

First time OnDemand access

You'll see a terminal as shown below. Use it to run this command:

```
/util/ccr/bin/ssh_no_password.sh
```

This ensures you can ssh between any nodes in the cluster. Keep your terminal open!


My Interactive Sessions -
jsperhac@srv-p22-12: ~
https://ondemand.ccr.buffalo.edu/pu
90%
Search
Host: vortex.cbls.ccr.buffalo.edu
Themes:
Default
Next Downtime: Tuesday, June 29, 2021
Maintenance Downtime Schedule: https://tinyurl.com/downtime-schedule
Questions or Problems? Check out our searchable knowledgebase:
https://ubccr.freshdesk.com
Check out our virtual workshops:
https://ubccr.freshdesk.com/en/support/solutions/articles/13000074205-virtual-workshops
New iquota usage - you must specify path:
iquota -p /user/username
iquota -p /projects/academic/yourgroup
iquota -p /panasas/scratch/grp-yourgroup
More details: https://ubccr.freshdesk.com/support/solutions/articles/5000684891
IMPORTANT: ACCOUNT POLICY CHANGE COMING 7/27/21
Two factor authentication will be required on all CCR accounts. SSH logins will no longer
accept passwords; SSH keys must be used. More details: https://tinyurl.com/2fapolicy
jsperhac@srv-p22-12:~$

Link to project space

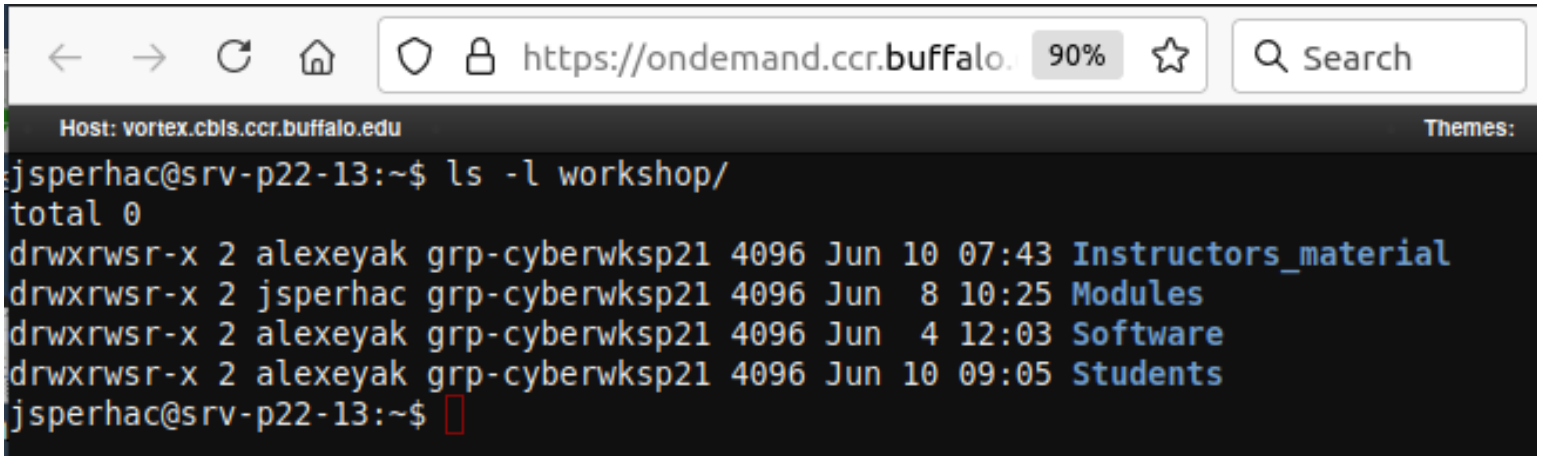
Next, in your terminal, create a link from your home directory to the project space by typing the following:

```
ln -s /projects/academic/cyberwksp21 ~/workshop
```

Check this by typing:

```
ls -l workshop
```

You should see something like this–a successful link to our project space:



Create your project and scratch subdirectories

We now verify/create directories for your use during the workshop. These directories will have your own CCR username.

Verify your Student directory by typing:

```
ls /projects/academic/cyberwksp21/Students/ | grep $USER
```

...you will see your own username returned from this command.

Create your scratch directory by typing:

```
mkdir -p /panasas/scratch/grp-cyberwksp21/$USER
```

.bashrc edits

We now make two simple additions to your .bashrc file. You can use nano or vim editors for this task. We will demonstrate with nano.

From your home directory, type:

```
nano .bashrc
```

Use the arrow keys to move the cursor in nano. Add the following two lines to your .bashrc file:

```
module use /projects/academic/cyberwksp21/Modules
export SLURM_CONF=/util/ccr/slurm/slurm-faculty.conf
```

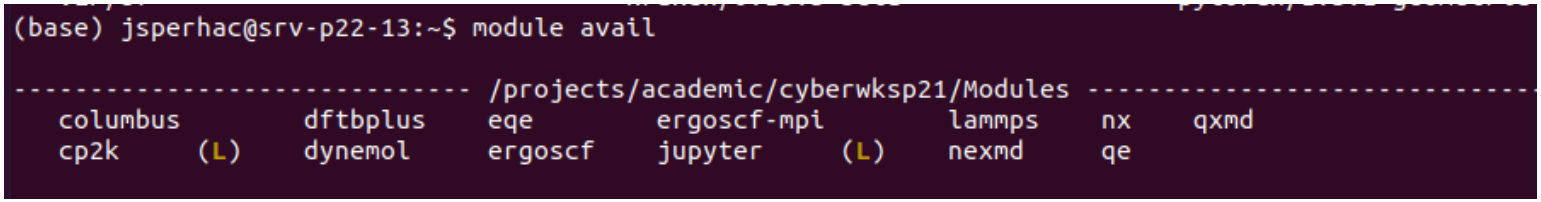
Click ctrl-S to save, then ctrl-X to exit the nano editor. Then:

```
source .bashrc
```

Verify .bashrc

```
module avail
```

The first output returned should look like:



Congratulations

You’re ready for the workshop!