

Jupyterhub through cobalts

Zoë Rechav

Cobalts

- Our servers
- Storing things common practice
 - Scripts → /home/user/ directory
 - output/NPX scripts → /data/user/ directory
- Main use: small code projects, debugging, storage → transition type things
- Please don't run expensive code on cobalts → we all share the same space

Getting to the Cobalts: Commands

In your local terminal

```
ssh zrechav@pub.icecube.wisc.edu
```

```
ssh cobalt (+ optional cobalt number → we have 0-8: cobalt06)
```

Launch environments/etc → mine looks like this

```
eval $(/cvmfs/icecube.opensciencegrid.org/py3-v4.3.0/setup.sh)
```

```
./i3/icetray/build/env-shell.sh
```

```
source /home/zrechav/.venvs/icetray_version_lock_venv/bin/activate
```

Do your thing on the cobalts

JupyterHub through the Cobalts: Commands

In your local terminal

```
ssh -L 1202:localhost:1202 zrechav@pub.icecube.wisc.edu
```

Use your own **unique number** (I use 1202, another one could be 1203)

```
ssh -L 1202:localhost:1202 cobalt
```

Launch environments/etc → mine looks like this

```
eval $(/cvmfs/icecube.opensciencegrid.org/py3-v4.3.0/setup.sh)
```

```
./i3/icetray/build/env-shell.sh
```

```
source /home/zrechav/.venvs/icetray_version_lock_venv/bin/activate
```

JupyterHub through the Cobalts: Commands

Link to a browser

```
jupyter-notebook --no-browser --port 1202
```

Follow the message that pops up in your terminal

To access the notebook, open this file in a browser:

```
file:///home/zrechav/.local/share/jupyter/runtime/nbserver-32984-open.html
```

Or copy and paste one of these URLs:

```
http://localhost:1203/?token=59d42fc7527ed1a8d10abddafb3fb58c2f850c3665283d3f
```

or

```
http://127.0.0.1:1203/?token=59d42fc7527ed1a8d10abddafb3fb58c2f850c3665283d3f
```

You might be asked to copy your token the first time (as a 'password')