CONNECTING TO CURIOSITY CLUSTER

Bootcamps user instructions - last update: June 72023


Activate your Axis account

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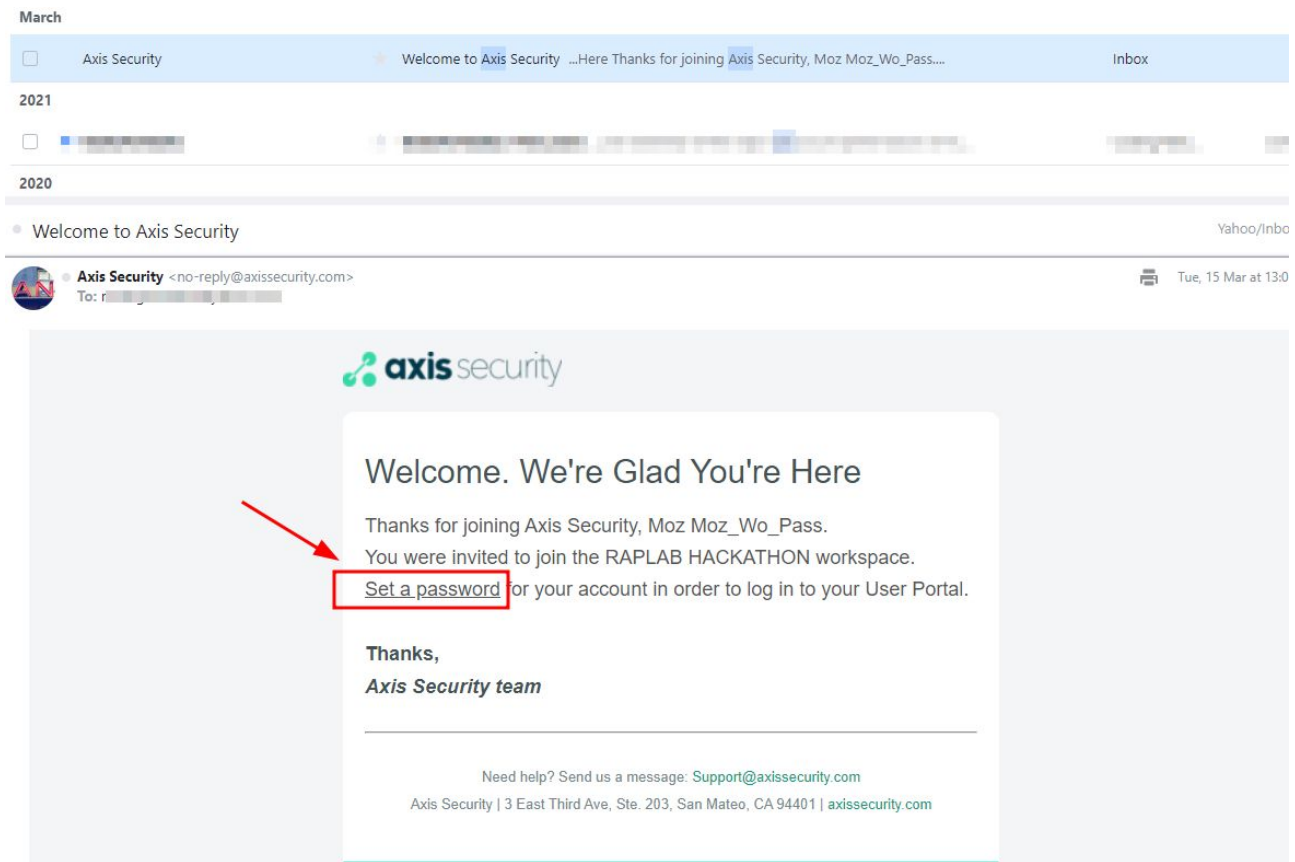
Activate your account using the email you received from Axis. All you need to do is to set a password via the link inside the email.




Connect to Axis, Copy the
“hash number”

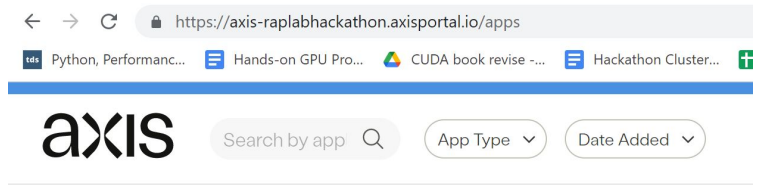
Connecting to the Cluster

➔ **Login to Axis with your credentials**

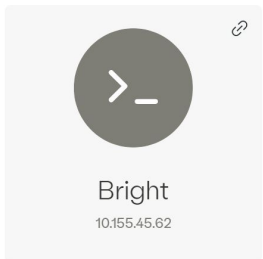
- Link : https://axis-raplabhackathon.axisportal.io/apps
- Use Chrome browser or make sure your browser does not block pop ups

Connect to CURIOSITY via Terminal

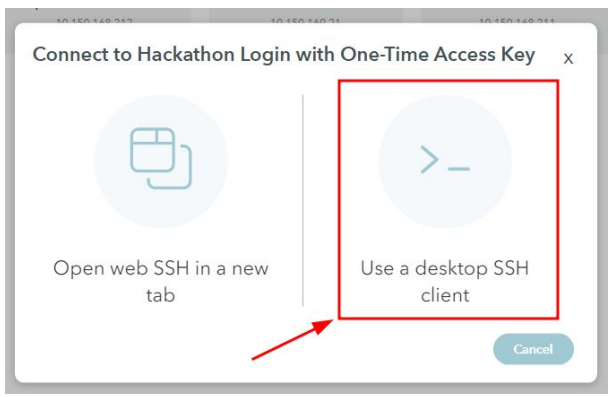
STEP 1) Go back to Axis login page.



➔ Click on the “Bright” app



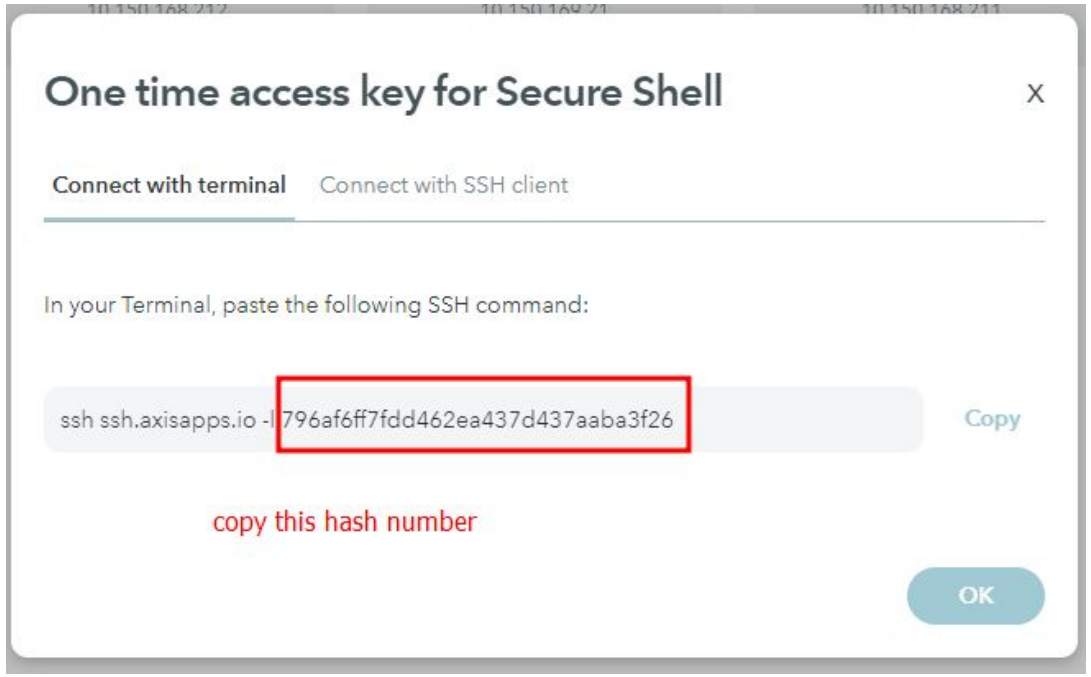
➔ Click on “Use a desktop SSH client”



Connect to CURIOSITY via Terminal

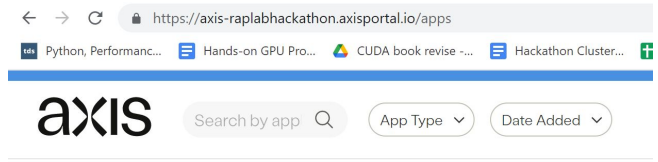
Copy AXIS Hash Number

- Now, make a copy of the hash number (notepad, text etc.) for the next step:

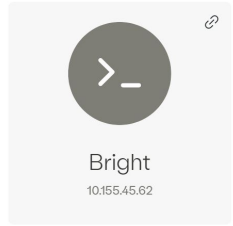



Connect to the cluster &
launch the labs

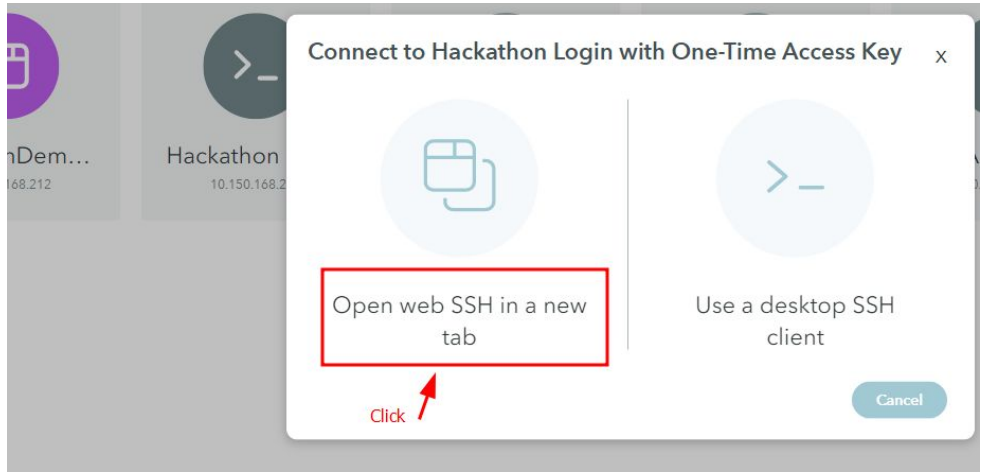
Connecting to the Cluster



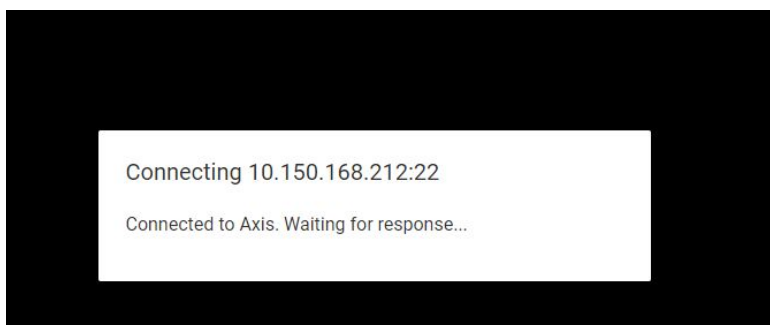
➔ Click on the “Bright” app

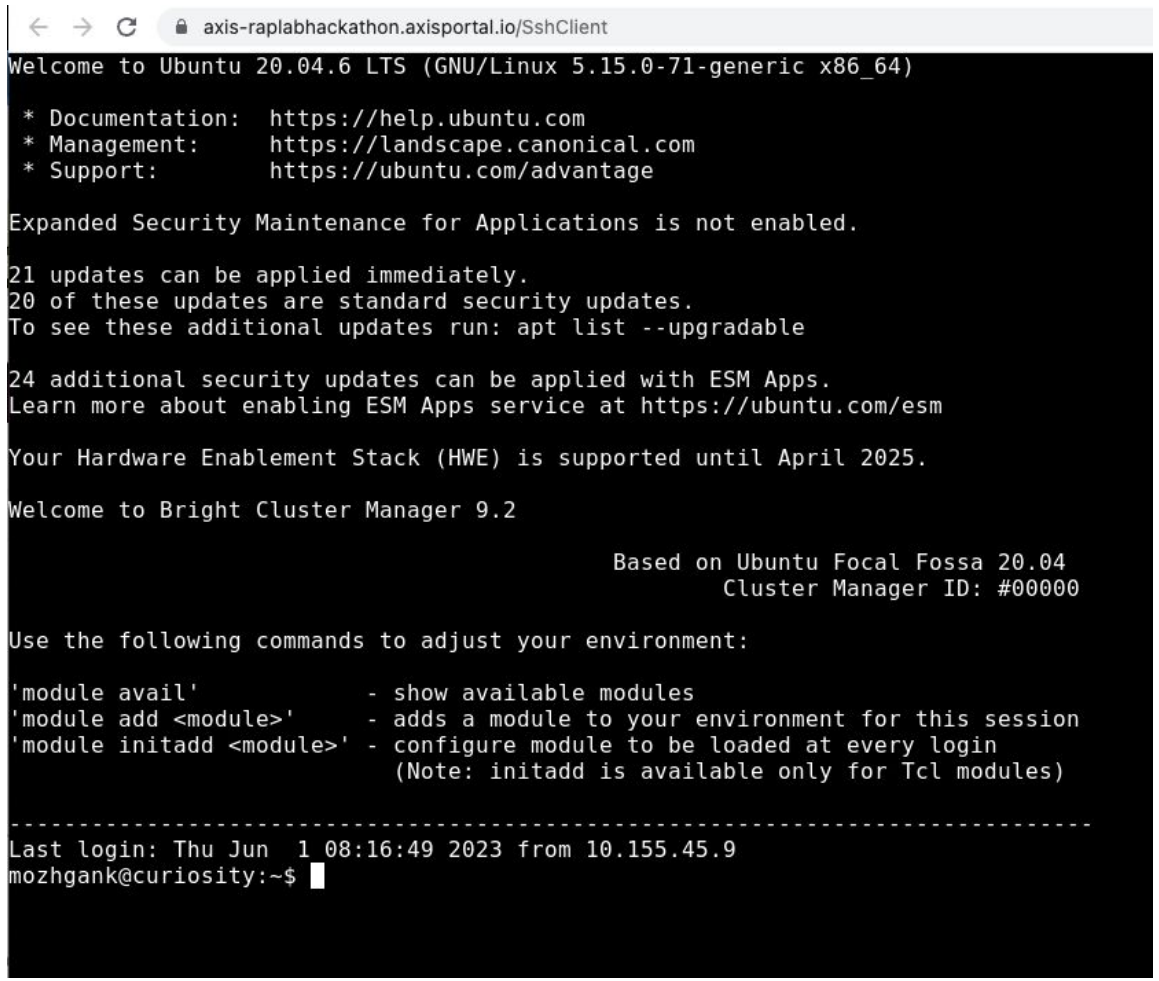


➔ Click on the “Open web SSH in a new tab”



Be patient ..


Connecting 10.150.168.212:22
Connected to Axis. Waiting for response...


axis-raplabhackathon.axisportal.io/SshClient
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-71-generic x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
Expanded Security Maintenance for Applications is not enabled.
21 updates can be applied immediately.
20 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
24 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm
Your Hardware Enablement Stack (HWE) is supported until April 2025.
Welcome to Bright Cluster Manager 9.2
Based on Ubuntu Focal Fossa 20.04
Cluster Manager ID: #00000
Use the following commands to adjust your environment:
'module avail' - show available modules
'module add <module>' - adds a module to your environment for this session
'module initadd <module>' - configure module to be loaded at every login
(Note: initadd is available only for Tcl modules)
Last login: Thu Jun 1 08:16:49 2023 from 10.155.45.9
mozhgank@curiosity:~$


Launch the lab

Launch the lab via the script

STEP 1

In the web terminal window, use the below command for the bootcamp, replacing <Axis Hash> with the hash from slide 7 (labs availability depends on a type of a bootcamp).

- FourCastNet: `sbatch /bootcamp_scripts/FCN/fourcastnet <Axis Hash>`

STEP 2

Wait for about 1-2 minutes then copy the following command into the same web terminal window as you ran the previous command: `cat port_forwarding_command`

The output:

```
mozhgank@curiosity:~$ cat port_forwarding_command
ssh -L localhost:8888:dgx09:9006 ssh.axisapps.io -l 962f09a218454831a3e7f3db9597717f
```

STEP 3

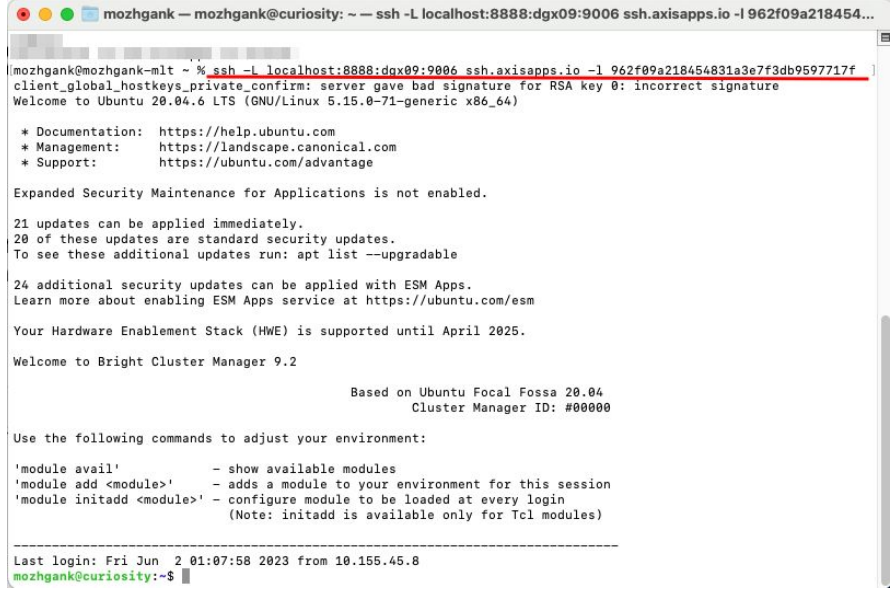
Highlight the printed result in the web terminal (and if using chrome right click to copy, or Ctrl + Insert for copy and Ctrl+Shift+V to paste)

```
mozhgank@curiosity:~$ cat port_forwarding_command
ssh -L localhost:8888:dgx09:9006 ssh.axisapps.io -l 962f09a218454831a3e7f3db9597717f
```

STEP 4

Open a **NEW** local terminal (Not through Axis or the web terminal this has to be your local computer) using Powershell, command prompt, Linux terminal, mac terminal, etc. Paste the result that was copied from Step 3 and hit enter to log back into the cluster in the local window.

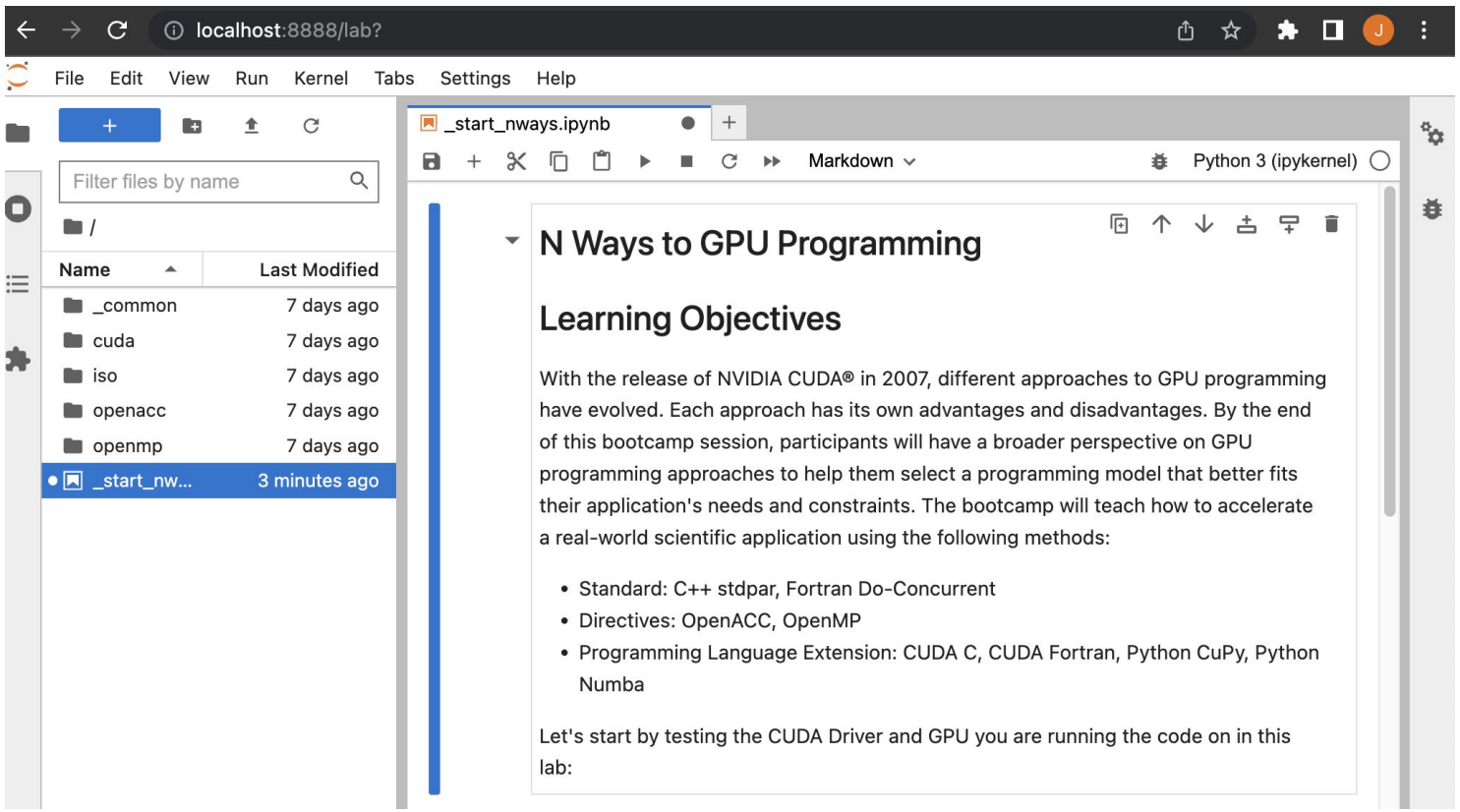
The output



STEP 5

Open your web browser (we recommend Chrome with pop blocker disabled) and enter:
http://localhost:8888

Jupyter Lab will start



Troubleshooting

- Session per the bootcamp is 4hrs
- Hash keys are good for 24hrs
- To close the job use the file menu in jupyter and choose shutdown, then close the ssh terminal
- Make sure that a VPN is not being utilized
- If you get the following error in the final Step 6 :

```
bind [127.0.0.1]:8888: Address already in use
channel_setup_fwd_listener_tcpip: cannot listen to port: 8888
Could not request local forwarding.
```

You will need to change the port 8888 in your ssh command to some other port, examples would be 8890, 8900 etc.

For example: `ssh -L localhost:8890:dgx05:9538 ssh.axisapps.io -l 7aab57129c95450cb80c4df5c13836bd`