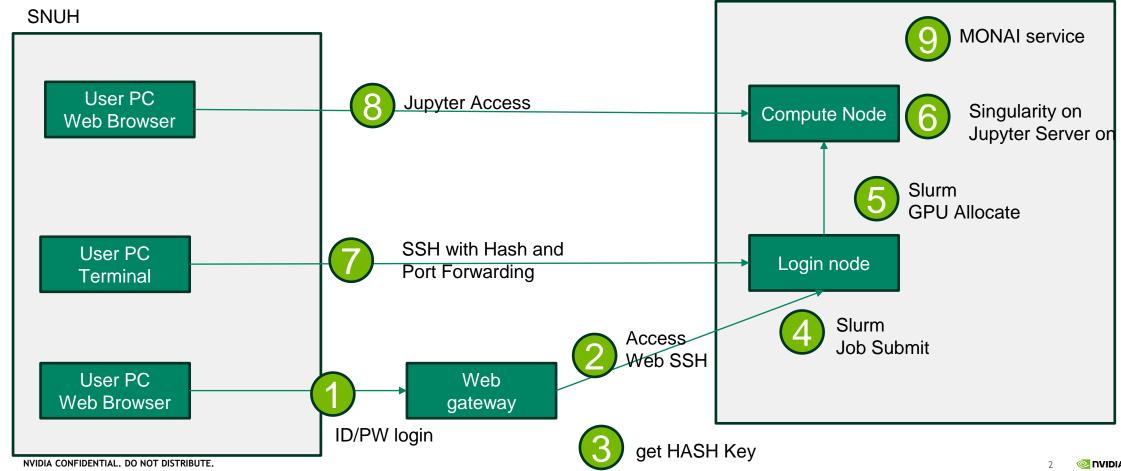
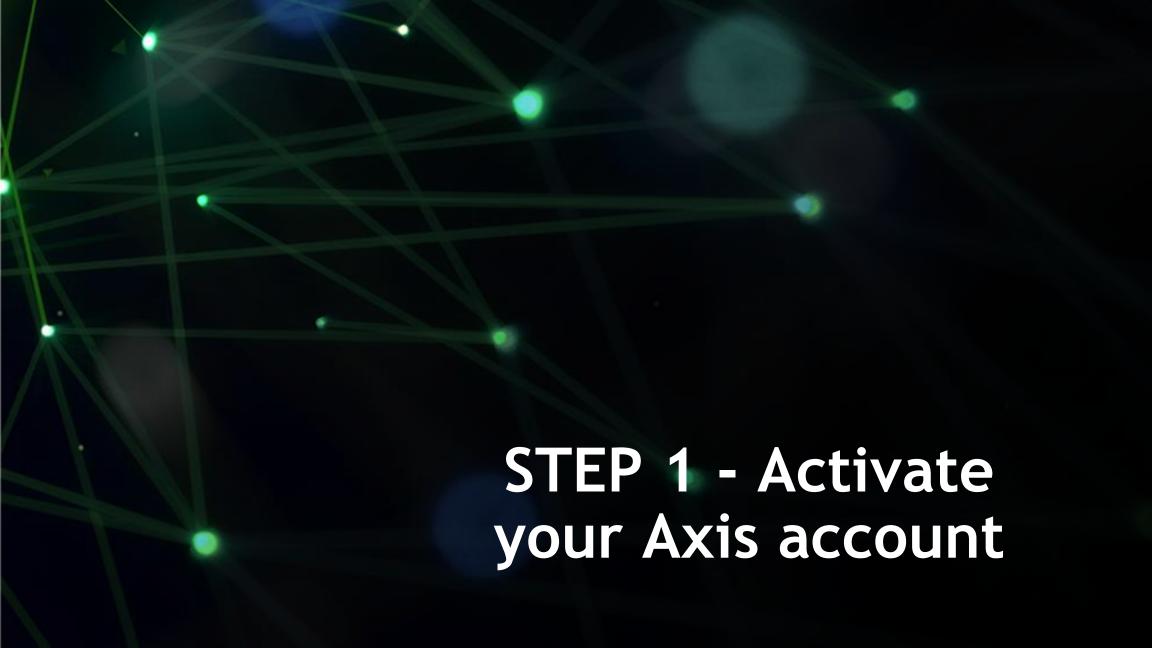


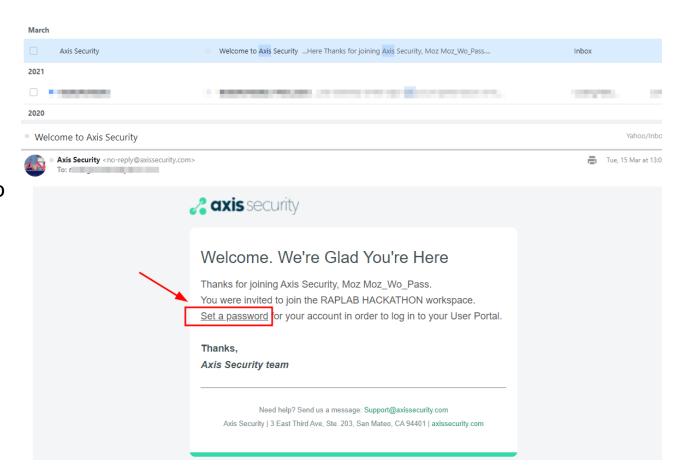
Architecture to Access Server





Activate your Axis account

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.



STEP 2 - Connect to Web SSH terminal

1D/PW login

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



Connecting to the Cluster

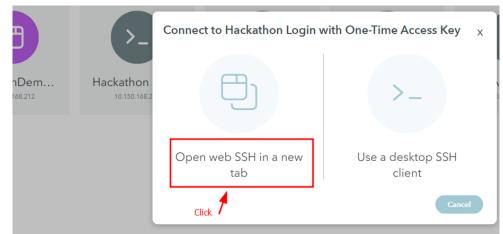
→ Click on the "Hackathon Login" app



Hackathon Login

cathon.axisportal.io/apps

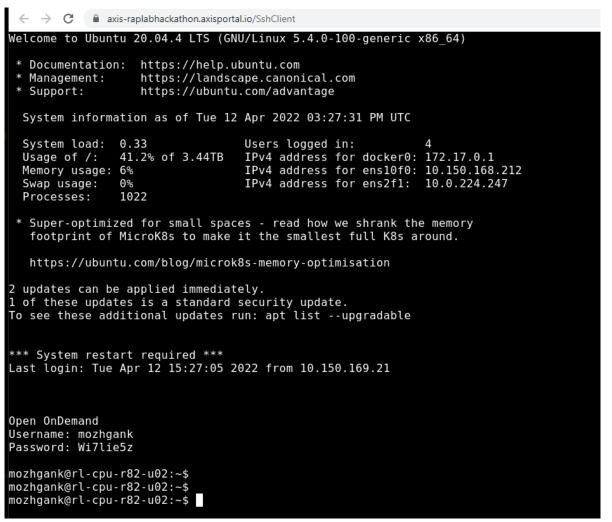
→ Click on the "Open web SSH in a new tab"



PACCESS Web SSH Be patient ...

Connecting 10.150.168.212:22

Connected to Axis. Waiting for response...





STEP 3 - Copying the Hash Key



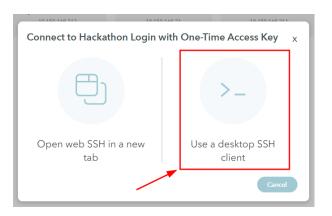
Hash Key Copy

STEP 1) Go back to Axis login page.

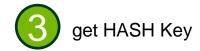
→ Click on the "Server Login" app



→ Click on "Use a desktop SSH client"

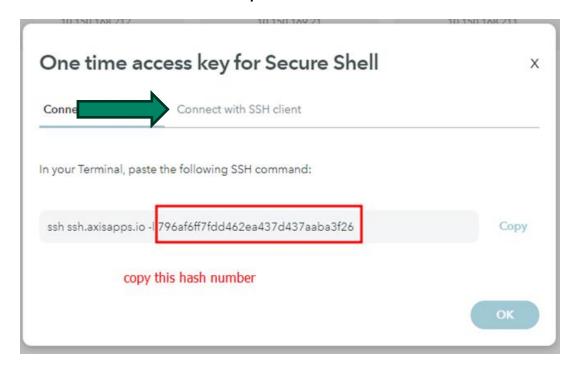


For copying HASH Key



Hash Key Copy

→ Now, make a copy of the hash number for the next step:



Step 4: Launch Job with slurm



Slurm Command

check current jobs \$ squeue --user \$USER

cancel all jobs for user
\$ scancel --user \$USER

cancel the job with jobid \$ scancel 1234

\$ sbatch script.sh

Current Server Policy

Only 1 job per user is allowed Other jobs would be pending jobs

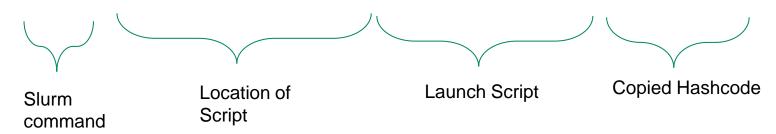
Single job allocate 1 MIG GPU and 4 CPU cores with 4 HRs



Connect to the CURIOSITY with Port forwarding

Step 1: On the terminal Replace the below command with the "hash number" copied as per Slide 7. Then run it by pasting it on the terminal:

sbatch /bootcamp workspaces/hryu/monai launch script {hash number}

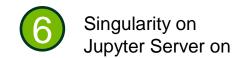


Double check the exact location of script

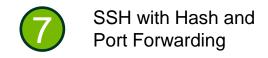
bharatk@rl-cpu-r82-u02:~\$ sbatch /mnt/shared/bootcamps/rapids_launch_script g786jklsjdfsfd87878







Step 5: SSH port forwarding

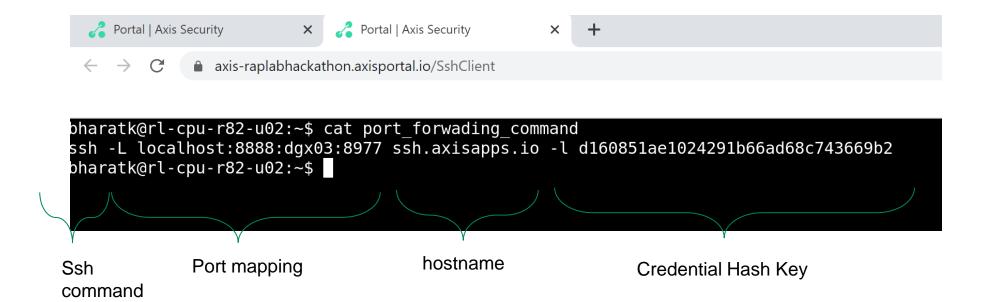


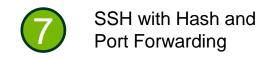
Connect to the CURIOSITY with Port forwarding

The previous step produces a file with the port forwarding details.

```
$ cat ~/port_forwading_command
```

Copy the contents of the file.





Connect to the CURIOSITY with Port forwarding

Open a local new terminal on your local machine to login to the CURIOSITY with port forwarding. Replace the command with the command printed in the port_forwading_command file in previous steps

Note: In the screenshot, port number was 8000 and the DGX number was dgx01

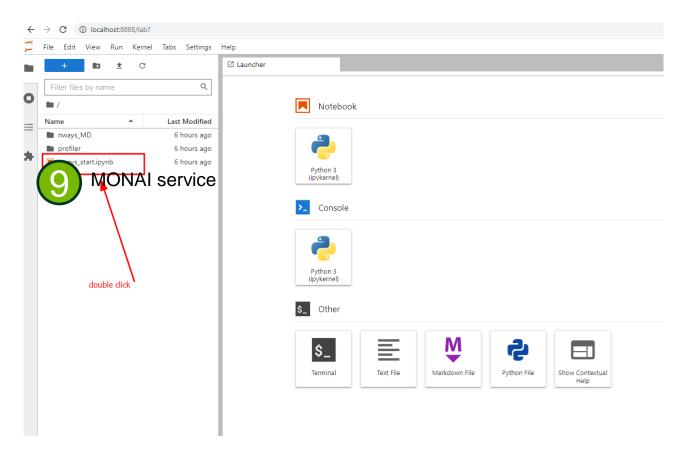
```
mozhgank@rl-cpu-r82-u02:
PS C:\windows\System32> ssh -L localhost:8888:dgx01:8000 ssh.axisapps.io
Welcome to Ubuntu 20.04.4 เเร (ฉพบ/Linux ร.4.ช-เชช-generic xช๐ ๑४)
  Documentation: https://help.ubuntu.com
  Management: https://landscape.canonical.com
                 https://ubuntu.com/advantage
 System information as of Tue 12 Apr 2022 09:12:04 PM UTC
 System load: 0.0
                                Users logged in:
 Usage of /: 41.3% of 3.44TB IPv4 address for docker0: 172.17.0.1
                           IPv4 address for ens10f0: 10.150.168.212
 Swap usage: 0%
                                IPv4 address for ens2f1: 10.0.224.247
 Processes:
  Super-optimized for small spaces - read how we shrank the memory
  footprint of MicroK8s to make it the smallest full K8s around.
  https://ubuntu.com/blog/microk8s-memory-optimisation
 updates can be applied immediately.
 of these updates is a standard security update.
To see these additional updates run: apt list --upgradable
*** System restart required ***
Last login: Tue Apr 12 15:47:01 2022 from 10.150.169.21
Open OnDemand
Username: mozhgank
Password: Wi7lie5z
 ozhgank@rl-cpu-r82-u02:~$
```



Running the notebooks via the browser

Now, open your browser at http://localhost:8888 and double click on start_here.ipynb

To terminate the notebook, close the browser, type control-c on the first terminal that is on your browser tab and exit the second terminal or exist all terminals together.



Copy required data

On terminal Check the data copy script

```
$ ls ~/copy_data_monai.sh
```

Launch Copy the contents of the file.

```
$ bash ~/copy_data_monai.sh
```

It will takes few minutes to copy 14GB datasets

BYOM

- \$ docker pull hryu01/pytorch:monai_2301_v3
- \$ singularity build --sandbox my_img.sif docker://hryu01/pytorch:monai_2301_v3
- \$ Singularity run --nv --bind /mnt/workspace:/workspace my_img.sif bash -c "cd /workspace && jupyter lab clean && jupyter lab --ip=0.0.0.0 --port \$PORT NotebookApp.token='monai' "

