# 1. Job Script for Launching the Jupyter Notebook Job in the Cluster

```
[@login1 ~]$ cat jupyter.sh
#!/bin/bash
#PBS -N Notebook job
#PBS -1 select=1:ncpus=2:ngpus=1
#PBS -1 walltime=24:00:00
#PBS -q serialq
#PBS -j oe
cd $PBS O WORKDIR
NOTEBOOK LOGFILE=jupyterlog.out
# get tunneling info
node=$(hostname -s)
user=$(whoami)
cluster="AA.BB.CC.D"
                                    # Enter cluster IP address
                                   # Enter a port number like 9000
port=XXXX
export JUPYTER PORT=XXXX
### --After job submission open the port forwarding.txt file for port forwarding details --###
echo -e "
Run the following command from your local machine terminal with local machine port YYYY:
$ ssh-N -f -L YYYY:${node}:${port} ${user}@${cluster}
" > port forwarding.txt
module load anaconda/3
# launch the Jupyter Notebook run
jupyter notebook --no-browser --ip=${node} --port=${port} > ${NOTEBOOK LOGFILE} 2>&1
```

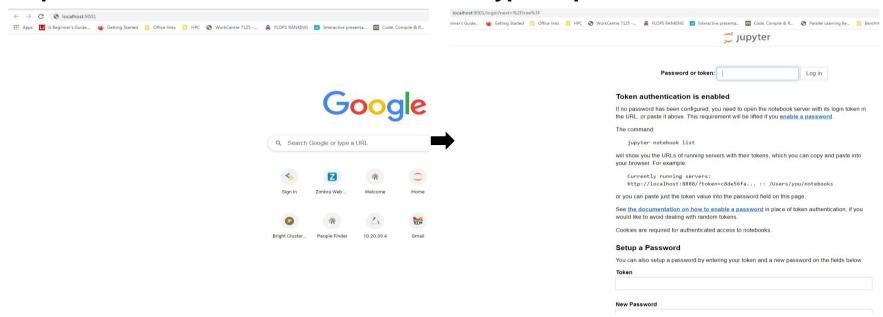
# 2. Submitting the Job

```
[@login1 ~]$ qsub jupyter.sh
# A job id should be generated like 136407.cluster
```

#### 3. Port forwarding via ssh to local machine port no. YYYY

# Check the "port\_forwarding.txt" file made after the job submission # Check the compute node, port, username and cluster name in the file. # You can copy paste the command from "port\_forwarding.txt" file # The command syntax will be like the following: [@localhost]\$ ssh -N -f -L YYYY:cn001:XXXX username@AA.BB.CC.D

# 4. Open web browser in local machine and type http://localhost:YYYY



This will ask for the token which is available in the jupyterlog.out file in your working directory on the cluster.

# 5. To get the token from the jupyterlog.out file in the cluster working directory

[@login1 ~]\$ tailf jupyterlog.out

#Just copy and paste the token without the equal sign in the token window in browser.

