Intel Developer Cloud

1. How to generate ssh key?
   `ssh-keygen -t rsa -b 4096 -f $env:UserProfile\.ssh\id_rsa`

   replace `$env:UserProfile` with the path of the user name (like C:\Users\rsp)

2. How to connect with the instance?
   - Launch a instance in IDC by uploading ssh key
   - Copy the **ssh command** from "How to Connect?"
   - Paste in here

   ```
   ssh command -L 8888:localhost:8888

   #Install Python* virtual environment:

   sudo apt install python3-venv

   #Create Python* virtual environment:

   python3 -m venv jupyter_env

   #Activate Python* virtual environment:

   source jupyter_env/bin/activate

   #Install JupyterLab in Python* virtual environment:

   pip3 install jupyterlab

   #Launch JupyterLab in Python* virtual environment:

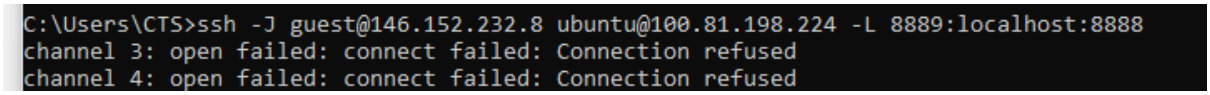
   jupyter-lab
   ```

   If you face error while entering sudo commands do

   `sudo apt update`

3. To install conda , follow the steps mentioned in this website
   https://www.digitalocean.com/community/tutorials/how-to-install-the-anaconda-python-distribution-on-ubuntu-22-04

4. You may not get to enter "Y" while uninstalling a package in JupyterLab in IDC. So do
   `pip uninstall pkg-name -y`

5. 

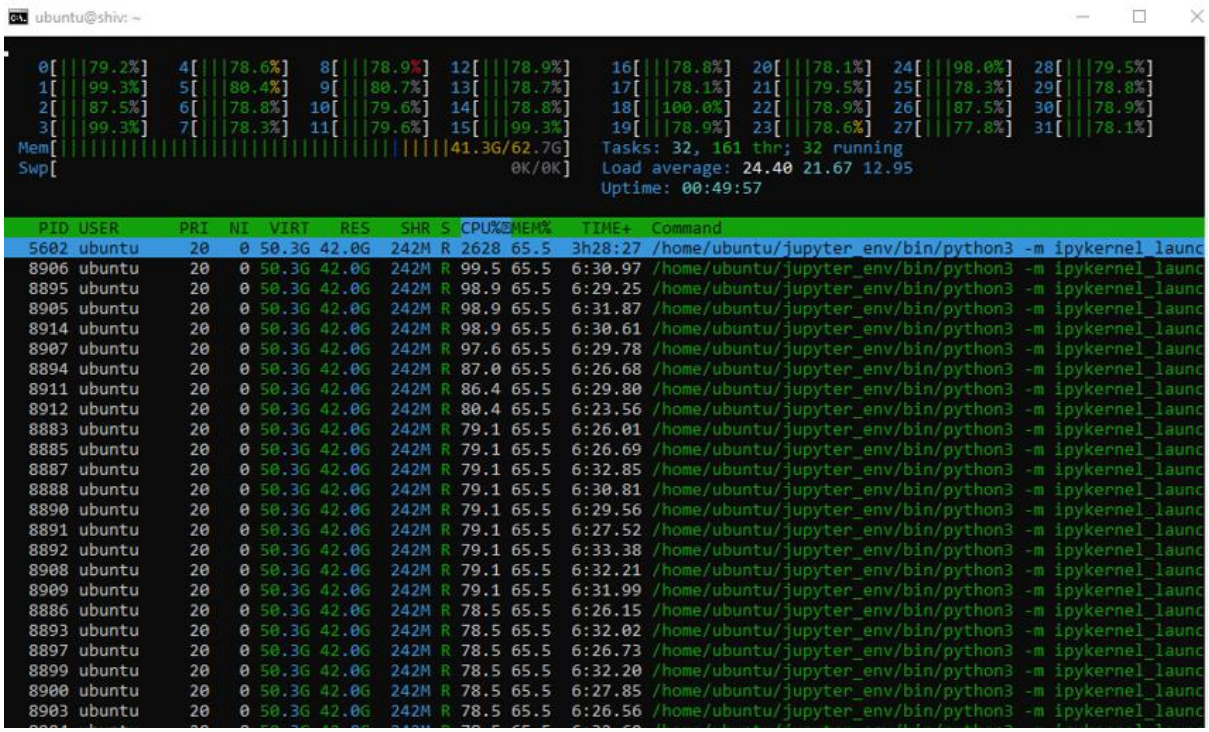
   For this issue, change the first port number to a different port number like 8989:localhost:8888. Also note that , frequently changing the port number in short period of

time can lead to many active sessions and eventually block you from initiating a new terminal console.

6. To check the CPU utilization of the instance you have launched

   ```
   sudo apt install htop
   ```

   ```
   htop
   ```



   You can check how many cores of the CPU is being utilized by the tasks.

7. In JupyterLab , even after installing any package, if you face this error

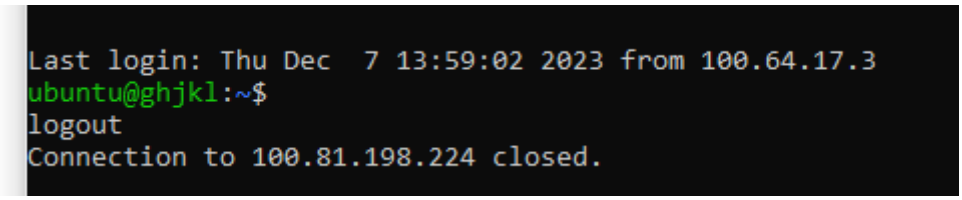
   ```
   ModuleNotFoundError: No module named 'matplotlib'
   ```

   Restart the kernel. It will solve the issue.

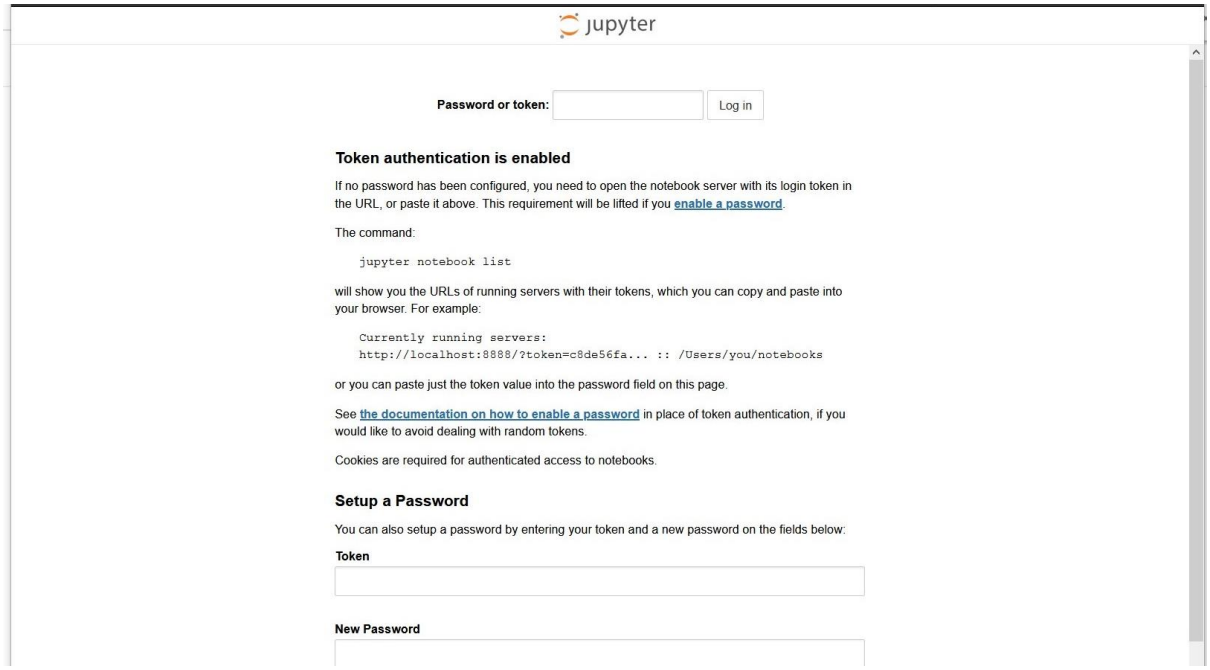
8. ```
   client_loop: send disconnect: Connection reset
   client_loop: send disconnect: Unknown error
   ```

   If you encounter this issue, check your internet connection.

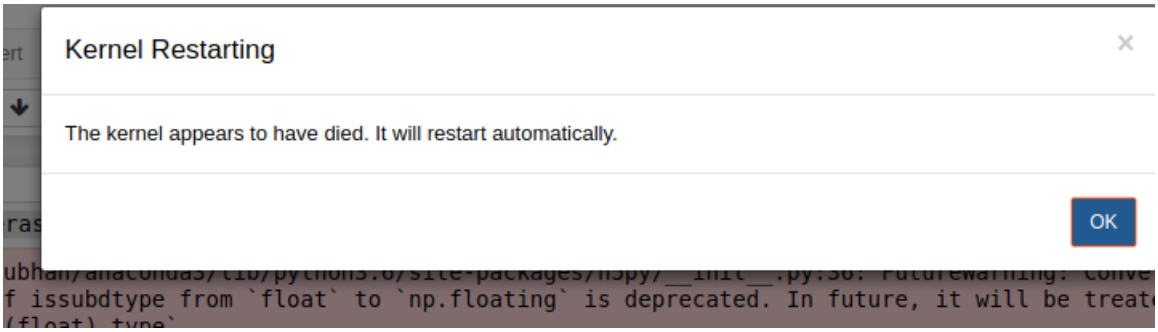
9. If you want to logout to the particular instance from the terminal , do CTRL+D. you can resume the connection back through ssh cmd.


   ```

10. If password is required to use the jupyterlab , try launching it from rgeular windows cmd prompt. Other applications might lead to this page.



11. If you get a pop up like kernel has died, you may be running out of the exisiting RAM, opt for a instance with higher RAM.



12. Installation of Jupyter-lab in terminal

```
pip install jupyterlab
jupyter-lab
```

13. Installation of Neural Compressor in terminal

```
pip install --upgrade-strategy eager "optimum[neural-compressor]"
```