

Step by Step Guidelines for setting up the IDC and to launch the Jupyter Notebook.

1. Generate an ssh key using the command `ssh-keygen` in the power shell as an administrator.
2. Open the generated key file using notepad and copy the contents of the file.(C:\Users\<<username>>\.ssh is the path - file name is id_rsa.pub, use the command notepad id_rsa.pub)
3. Nextly login or register into the Developer Cloud and add the key under the profile section.
<https://scheduler.cloud.intel.com/>

4. Open .ssh folder and create a config file with the below commands:

Host myidc

Hostname idcbetabatch.eglb.intel.com

*User uXXXXXX #— Request "scheduled access" at
<https://scheduler.cloud.intel.com/#/systems> to get your user identifier.*

IdentityFile ~/.ssh/id_rsa

*#ProxyCommand ncat --proxy YourProxy:XXXX %h %p --proxy-type socks5 %h %p ##
Uncomment if necessary*

ServerAliveInterval 60

ServerAliveCountMax 10

StrictHostKeyChecking no

UserKnownHostsFile=/dev/null

5. On Powershell type `ssh myidc` to connect to your head node instance. This will enable you to be authenticated.
6. Next to connect to an interactive node type in the below command:

srunc --pty bash

source /opt/intel/oneapi/setvars.sh

This will get the batch node activated! You will see this clearly in the powershell terminal.

u***@idc-beta-batch-head-node would get changed to u***@idc-beta-batch-pvc-node

7. Configure your shell using the command `conda init bash`
8. Close the existing instance to make sure that the configuration changes reflect using the command `exit`

9. You are taken back to the head node again, connect to the interactive node again by repeating *Step6* again.
10. To check the available environments type in the command *conda env list*
11. Choose the environment of your choice by typing in *conda activate env_name*
12. Get and check the allocated socket by using the below command:
echo \$(ip a | grep -v -e "127.0.0.1" -e "inet6" | grep "inet" | awk {'print(\$2)'} | sed 's/\/.//')*
13. Note down the last 2 digits of the ip address.
14. To activate Jupyter Lab use the following command:
jupyter-lab --ip 10.10.10.X (Where X is the last two digits that you observed before in Step13)
15. Open a fresh Powershell Instance and type *ssh myidc -L 8888:10.10.10.X:8888* (Where X is the last two digits that you observed before in **Step13**)
16. Open a local browser and type the following in the address bar: <http://localhost:8888/lab>
17. In the preceding screen you will be asked for a token. This can be found in the first powershell instance on the 6th last line.

For Video Tutorial Visit - <https://youtu.be/PhzIMQ8-GE4>