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cyber-security - lab-2

Topic: Hands on with ssh commands

how to connect to iitj remote server using ssh from terminal

1. first connect to the iitj forticlient vpn (if outside campus)

UNLICENSED

VPN Connected



VPN Name IITJ

IP Address 192.168.80.9

Username sharma.59

Duration 00:16:23

Bytes Received 11.79 MB

Bytes Sent 37.15 MB

Disconnect

2. then connect to the server using the following command: *ssh u108@172.25.0.42* then enter password as shown below

how to transfer files from your local system to remote server using scp command

1. first select a file to transfer as shown below

2. then send the file to remote server using scp command shown below

3. you can see the file on remote server as shown below

```
[u108@gpu2 ~]$ ls
Pytorch_CV_Lab Untitled.ipynb file1.txt nirbhay.txt
[u108@gpu2 ~]$
```

how to transfer files from remote server to local system using scp

1. type the following command to transfer from remote to local server

we can see that file is transferred 100% from remote to local system

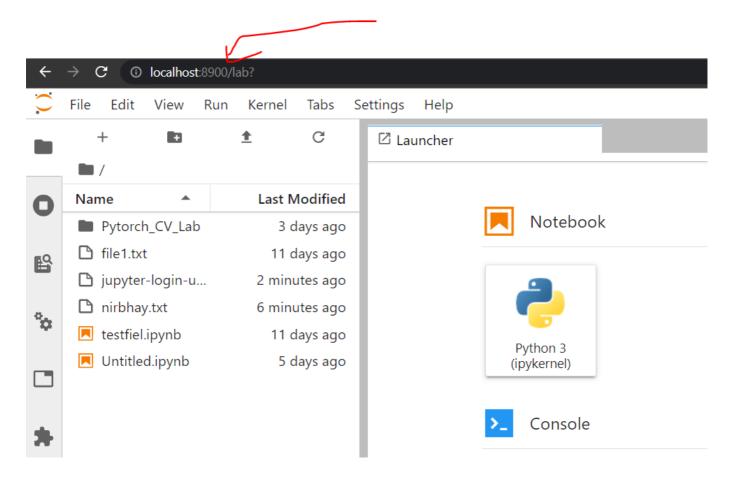
how to connect to jupyter notebook using ssh tunneling

1. first launch jupyter command on remote server as shown below

```
[u108@gpu2 ~]$ launch-jupyter
Enter container image
dlops/labs:nvidia01
Enter the number of GPUs
1
deployment.apps/u108 created
service/u108 created
Welcome to NVIDIA DGX A100 Cluster. Kindly paste the given URL onto your browser
http://172.25.0.42:30359
[u108@gpu2 ~]$ □
```

2. then we get the link http://172.25.0.42:30359 but it is not working in the local machine so use ssh tunneling to run it on a localhost with some localhost using the following command

3. see the jupyter notebook on localhost as shown below



4. after the work is over close the remote server as shown in the following figure

learnings from the above hands-on

- 1. how to use ssh to connect to any remote server
- 2. transfer files using scp from remote to localhost and from localhost to remote server
- 3. launch jupyter notebook using the concept of ssh tunneling