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UNIVERSITI PUTRA MALAYSIA
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**INSTITUTE FOR MATHEMATICAL RESEARCH (INSPEM),
UNIVERSITI PUTRA MALAYSIA**

MACHINE LEARNING HPC SERVER



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APRP SERVER INFORMATION



IP Address:
103.133.195.11



**Username: will be given
on request**

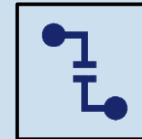


**Password: will be given
together with username**

ESTABLISHING CONNECTIONS



Setting Up Secure Connections



SSH Basics:

**SSH (Secure Shell) is a protocol
for securely connecting to remote
machines.**



`ssh yourusername@103.133.195.11`



CONNECTING TO APRP

The main way to connect to APRP machine is using SSH (Secure Shell) protocol, via the standard port 22

Some of the applications that can be used to connect via ssh

Windows

- *Ssh command in windows cmd*
- *Ssh command in windows powershell*
- *Ssh command in windows subsystem for linux*
- *Putty*
- *Mobaxterm*
- *Xshell*

MacOS

- *Ssh command in macOS terminal*
- *Putty*
- *Termius*

UBUNTU BASICS



- **Create a directory for yourself inside username: `$ mkdir username`**
- **move data : `$ mv homelusername/myfile /homelusername`**
- **Open directory: `$ cd Foldername`**
- **See files in folder: `$ ls`**
- **To display the file content, execute the cat command as follows: `$ cat <file name`**
- **Let's create a file to understand how to open a file. Execute the below command: `$ cat > Test.txt`**
- **To display the file content of the above file, execute the command as follows: `$ cat Test.txt`**
- **The cat command is a very useful utility to open a file, but the main issue with it that it displays the file content on the terminal. If we have a big file, then it is not an ideal way to open a file. In such a situation, the less command will be handy as it displays a page at a time.**
- **The less command allows us to view one page at a time. To display the file content, execute the less command as follows: `$ less Test.txt`**
- **To exit from the less command, press the 'q' key, and you will be back to the terminal.**
- **To display the file content by the more command, execute it as follows: `$ more Test.txt`**
- **To display the file content with the line number, execute it as follows: `$ nl Test.txt`**

TRANSFERRING FILES TO AND FROM THE SERVER

- **Command**
- **Some applications that can be used to move files to and from a prp.**
 - 1. Windows**
 - **Winscp**
 - **Filezilla**
 - **Xshell**
 - **Scp command in cmd / powershell**
 - **Cyberduck**
 - 2. Mac**
 - **Scp command in terminal**
 - **Cyberduck**



COMMAND TRANSFERRING FILES IN UBUNTU

- Upload File: SCP filename.extension username@serveraddress:filepathZ

```
$ scp lpath/to/file username@servername ip:destination/folder/
```

- Download file: SCP filename.extension username@localaddress:filepath

```
$ scp dcuser@ip.address:/home/dcuser/scripted_bad_reads.txt ~/Downloads
```

- Connect to Server: **\$ sftp [user@server]**

- Enter Password...

- Display content of server: **\$ ls**

- Display content of Local machine: **\$ ll**

- Upload file: **\$ put [File name]**

- Download file: **\$ get [file name]**



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Thank you