

## FTP SERVER

- 1) sudo apt-get update
- 2) sudo apt install vsftpd
- 3) sudo gedit /etc/vsftpd.conf
- 4) uncomment "write\_enable=YES" then save and exit
- 5) sudo service vsftpd restart
- 6) sudo adduser username
- 7) cd home
- 8) sudo chmod 777 username
- 9) cd username
- 10) touch f1 f2 f3
- 11) create client by opening new terminal
- 12) type in new terminal: ftp ipaddress (copy and paste inet from first paragraph of ifconfig command)
- 13) enter password and u will be connected
- 14) get f1

## APACHE SERVER

1. sudo apt-get update
2. sudo apt install apache2
3. sudo ufw allow Apache
4. sudo ufw enable
5. sudo ufw status
6. ifconfig -> copy inet of 2<sup>nd</sup> paragraph)
7. cat > index.html (write basic html code)
8. firefox index.html

## NFS SERVER

1. sudo apt-get update .... Then sudo apt install nfs-kernel-server
2. sudo mkdir -p /mnt/nfs\_share → sudo chown -R nobody:nogroup /mnt/nfs\_share
3. sudo chmod 777 /mnt/nfs\_share
4. sudo gedit /etc/exports → press enter → Add this Line at the last: → /mnt/nfs\_share ipaddress/24(rw,sync,no\_subtree\_check) [**Replace ipaddress with actual ipaddress**] → Save and Exit
5. sudo exportfs -a
6. sudo systemctl restart nfs-kernel-server
7. Enter this command → "sudo ufw allow from **ipaddress**/subnet to any port nfs "
8. sudo ufw enable
9. sudo ufw status
10. Open new Terminal as Client → sudo apt-get update → sudo apt-get install nfs-common
11. sudo mkdir -p mnt/nfs\_client
12. sudo mount **ipaddress**:/mnt/nfs\_share /mnt/nfs\_client
13. go to server wala terminal and type → cd /mnt/nfs\_share → touch f1 f2 f3
14. go to client wala terminal and type → ls -l /mnt/nfs\_client
15. you should be able to see f1 f2 f3 at client side too

## SAMBA SERVER

1. `sudo apt update`
2. `sudo apt install samba`
3. `mkdir /home/yourusername/sambashare`
4. `sudo nano /etc/samba/smb.conf`
5. At end of the file write this:  
[sambashare]  
    comment = Samba on Ubuntu  
    path = /home/**yourusername**/share  
    read only = no  
    browseable = yes  
Save and exit
6. `sudo service smbd restart`
7. `sudo smbpasswd -a yourusername`
8. type a password
9. copy inet from 1<sup>st</sup> paragraph of ifconfig
10. open windows OS and in search bar type → `\\ipaddress\sambashare`
11. Enter the username and password
12. All Done!