

LAB 3

- **STEP-1:** Install ftpd service on your laptop

Commands

- `sudo apt install vsftpd`

- **STEP-2:** Enable port 21 and 20 (tcp) using iptables command using INPUT chain

Commands

- `sudo iptables -t filter -A INPUT -p tcp --dport 20 -j ACCEPT`
- `sudo iptables -t filter -A INPUT -p tcp --dport 21 -j ACCEPT`

- **STEP-3:** Connect to ftp server (e.g: localhost) and browse the current directory

Commands

- `ftp localhost`
- `ls`

- **STEP-4:** Enable ufw service

Commands

- `sudo ufw enable`

- **STEP-5:** Block port 20 and 21 (tcp) using ufw

Commands

- `sudo ufw deny 20/tcp`
- `sudo ufw deny 21/tcp`

- **STEP-6:** Try to connect to ftp service

[Commands](#)

- ftp localhost

- **STEP-7:** Capture the ufw log to detect the blocked operation

[Commands](#)

- tail /var/log/kern.log

- **STEP-8:** Install nfs service on your system

[Commands](#)

- sudo apt install nfs-kernel-server

- **STEP-9:** Enable nfs service on the firewall

[Commands](#)

- sudo ufw allow 2049/tcp
- sudo ufw allow 2049/udp

- **STEP-10:** Create and share /tmp/shares folder using exportfs command and /etc/exports file

[Commands](#)

- mkdir /tmp/shares
- sudo echo "/tmp/shares *(rw)" | sudo tee -a /etc/exports
- sudo exportfs -a

- **STEP-11:** Mount the remote share on /mnt folder (you can using localhost as well)

[Commands](#)

➤ `sudo mount -t nfs localhost:/tmp/shares /mnt`

- **STEP-12:** Copy some files to the remote share

[Commands](#)

➤ `scp /tmp/filetest.txt /mnt`

- **STEP-13:** Save iptables rules to /tmp/iptables-backup file

[Commands](#)

➤ `sudo iptables-save > /tmp/iptables-backup`