#!/bin/bash

#Install ftpd service on your laptop

sudo apt install vsftpd

#enable port 21 and 20 (tcp) using iptables command using INPUT chain

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

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

#connect to ftp server (e.g: localhost) and browse the current directory

ftp localhost

ls

#enable ufw service

sudo ufw enable

#block port 21 and 21 (tcp) using ufw

sudo ufw deny 20/tcp

sudo ufw deny 21/tcp

#try to connect to ftp service.

ftp localhost

#capture the ufw log to detect the blocked operation

tail /var/log/kern.log

#install nfs service on your system

sudo apt install nfs-kernel-server

#enable nfs service on the firewall

sudo ufw allow 2049/tcp

sudo ufw allow 2049/udp

#create and share /tmp/shares folder using exportfs command and /etc/exports file

mkdir /tmp/shares

sudo echo "/tmp/shares \*(rw)" >> /etc/exports

sudo exportfs -a

#mount the remote share on /mnt folder (you can using localhost as well)

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

#copy some files to the remote share

sudo cp /tmp/test.txt /mnt

#save iptables rules to /tmp/iptables-backup file

sudo iptables-save > /tmp/iptables-backup