

## LAB 3

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ahmed@ahmed-VirtualBox:~$ sudo apt install ftpd
[sudo] password for ahmed:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ftpd is already the newest version (0.17-36.2).
0 upgraded, 0 newly installed, 0 to remove and 235 not upgraded.
ahmed@ahmed-VirtualBox:~$ sudo iptables -t filter -A INPUT -p tcp
--dport 20 -j ACCEPT
ahmed@ahmed-VirtualBox:~$ sudo iptables -t filter -A INPUT -p tcp
--dport 21 -j ACCEPT
ahmed@ahmed-VirtualBox:~$ sudo ftp localhost
Connected to localhost.
220 ahmed-VirtualBox FTP server (Version 6.4/OpenBSD/Linux-ftpd-0
.17) ready.
Name (localhost:ahmed):
331 Password required for ahmed.
Password:
230 User ahmed logged in.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Extended Passive Mode OK (|||38765|)
150 Opening ASCII mode data connection for '/bin/ls'.
total 112
-rw----- 1 ahmed ahmed 1773 16:49 5 أبر .bash_history
-rw-r--r-- 1 ahmed ahmed 220 13:41 1 فبر .bash_logout
-rw-r--r-- 1 ahmed ahmed 3771 13:41 1 فبر .bashrc
drwx----- 13 ahmed ahmed 4096 19:05 11 فبر .cache
drwx----- 14 ahmed ahmed 4096 13:57 12 فبر .config
drwxr-xr-x 2 ahmed ahmed 4096 14:17 1 فبر Desktop
drwxr-xr-x 2 ahmed ahmed 4096 14:17 1 فبر Documents
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ftp> by
221 Goodbye.
ahmed@ahmed-VirtualBox:~$ sudo ufw enable
Firewall is active and enabled on system startup
ahmed@ahmed-VirtualBox:~$ sudo ufw deny 20/tcp
Rule added
Rule added (v6)
ahmed@ahmed-VirtualBox:~$ sudo ufw deny 21/tcp
Rule added
Rule added (v6)
ahmed@ahmed-VirtualBox:~$ tail /var/log/kern.log
Apr  5 15:55:51 ahmed-VirtualBox kernel: [ 212.287756] audit: type=1107 audit(1680702951.775:55): pid=679 uid=102 auid=4294967295 ses=4294967295 subj=unconfined msg='apparmor="DENIED" operation="dbus_method_call" bus="system" path="/org/freedesktop/PolicyKit1/Authority" interface="org.freedesktop.PolicyKit1.Authority" member="CheckAuthorization" mask="send" name=":1.3" pid=2260 label="snap.snap-store.ubuntu-software" peer_pid=701 peer_label="unconfined"'
Apr  5 15:55:51 ahmed-VirtualBox kernel: [ 212.287756] exe="/usr/bin/dbus-daemon" sauid=102 hostname=? addr=? terminal=?
Apr  5 15:55:51 ahmed-VirtualBox kernel: [ 212.312593] audit: type=1107 audit(1680702951.799:56): pid=679 uid=102 auid=4294967295 ses=4294967295 subj=unconfined msg='apparmor="DENIED" operation="dbus_method_call" bus="system" path="/org/freedesktop/PolicyKit1/Authority" interface="org.freedesktop.DBus.Properties" member="GetAll" mask="send" name=":1.3" pid=2260 label="snap.snap-store.ubuntu-software" peer_pid=701 peer_label="unconfined"'
Apr  5 15:55:51 ahmed-VirtualBox kernel: [ 212.312593] exe="/usr/bin/dbus-daemon" sauid=102 hostname=? addr=? terminal=?
Apr  5 15:55:51 ahmed-VirtualBox kernel: [ 212.317766] audit: type=1107 audit(1680702951.807:57): pid=679 uid=102 auid=4294967295 ses=4294967295 subj=unconfined msg='apparmor="DENIED" operation="dbus_method_call" bus="system" path="/org/freedesktop/PolicyKit1/Authority" interface="org.freedesktop.PolicyKit1.Authority" member="CheckAuthorization" mask="send" name=":1.3" pid=2260 label="snap.snap-store.ubuntu-software" peer_pid=701 peer_label="unconfined"'
Apr  5 15:55:51 ahmed-VirtualBox kernel: [ 212.317766] exe="/usr/bin/dbus-daemon" sauid=102 hostname=? addr=? terminal=?
Apr  5 15:55:55 ahmed-VirtualBox kernel: [ 215.603883] audit: type=1400 audit(1680702955.090:58): apparmor="DENIED" operation="open" class="file" profile="snap.snap-store.ubuntu-software" name="/etc/PackageKit/Viewer.conf" pid=2260 comm="snap-store" requested_mask="r" denied_mask="r" fsuid=1000 ouid=0
Apr  5 15:55:59 ahmed-VirtualBox kernel: [ 219.608771] audit: type=1400 audit(1680702959.093:59): apparmor="DENIED" operation="open" class="file" profile="snap.snap-store.ubuntu-software" name="/etc/appstream.conf" pid=2260 comm="snap-store" requested_mask="r" denied_mask="r" fsuid=

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ahmed@ahmed-VirtualBox:~$ sudo apt install nfs-kernel-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  keyutils libevent-core-2.1-7 libnfsidmap1 nfs-common rpcbind
Suggested packages:
  open-iscsi watchdog
The following NEW packages will be installed:
  keyutils libevent-core-2.1-7 libnfsidmap1 nfs-common
  nfs-kernel-server rpcbind
0 upgraded, 6 newly installed, 0 to remove and 235 not upgraded.
Need to get 615 kB of archives.
After this operation, 2,235 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://eg.archive.ubuntu.com/ubuntu jammy/main amd64 libevent-core-2.1-7 amd64 2.1.12-stable-1build3 [93.9 kB]
Get:2 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libnfsidmap1 amd64 1:2.6.1-1ubuntu1.2 [42.9 kB]
Get:3 http://eg.archive.ubuntu.com/ubuntu jammy/main amd64 rpcbind amd64 1.2.6-2build1 [46.6 kB]
Get:4 http://eg.archive.ubuntu.com/ubuntu jammy/main amd64 keyutils amd64 1.6.1-2ubuntu3 [50.4 kB]
Get:5 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 nfs-common amd64 1:2.6.1-1ubuntu1.2 [241 kB]
Get:6 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 nfs-kernel-server amd64 1:2.6.1-1ubuntu1.2 [140 kB]
Fetched 615 kB in 10s (63.2 kB/s)
Selecting previously unselected package libevent-core-2.1-7:amd64
(Reading database ... 204513 files and directories currently installed.)
Preparing to unpack .../0-libevent-core-2.1-7_2.1.12-stable-1build3_amd64.deb ...
Unpacking libevent-core-2.1-7:amd64 (2.1.12-stable-1build3) ...
Selecting previously unselected package libnfsidmap1:amd64.
Preparing to unpack .../1-libnfsidmap1_1%3a2.6.1-1ubuntu1.2_amd64

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ahmed@ahmed-VirtualBox:~$ mkdir /tmp/shares
ahmed@ahmed-VirtualBox:~$ sudo nano /etc/exports
ahmed@ahmed-VirtualBox:~$ sudo exportfs -a
exportfs: /etc/exports [1]: Neither 'subtree_check' or 'no_subtree_check' specified for export "*/tmp/shares".
    Assuming default behaviour ('no_subtree_check').
    NOTE: this default has changed since nfs-utils version 1.0.x

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ahmed@ahmed-VirtualBox: ~  
GNU nano 6.2 /etc/exports *  
# /etc/exports: the access control list for filesystems which ma  
# to NFS clients. See exports(5).  
#  
# Example for NFSv2 and NFSv3:  
# /srv/homes hostname1(rw,sync,no_subtree_check) hostname2  
#  
# Example for NFSv4:  
# /srv/nfs4 gss/krb5i(rw,sync,fsid=0,crossmnt,no_subtree_  
# /srv/nfs4/homes gss/krb5i(rw,sync,no_subtree_check)  
#  
/tmp/shares *(rw)
```

```
Processing triggers for man-db (2.10.2-1) ...  
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...  
ahmed@ahmed-VirtualBox:~$ sudo ufw allow 2849/tcp  
Rule added  
Rule added (v6)  
ahmed@ahmed-VirtualBox:~$ sudo ufw allow 2849/udp  
Rule added  
Rule added (v6)  
ahmed@ahmed-VirtualBox:~$ mkdir /tmp/shares  
ahmed@ahmed-VirtualBox:~$ sudo nano /etc/exports  
ahmed@ahmed-VirtualBox:~$ sudo exportfs -a  
exportfs: /etc/exports [1]: Neither 'subtree_check' or 'no_subtree_check' specified for export "*/tmp/shares".  
Assuming default behaviour ('no_subtree_check').  
NOTE: this default has changed since nfs-utils version 1.0.x  
  
ahmed@ahmed-VirtualBox:~$ sudo mount -t nfs localhost:/tmp/shares /mnt  
ahmed@ahmed-VirtualBox:~$ cd /tmp/shares  
ahmed@ahmed-VirtualBox:/tmp/shares$ touch filelab3.txt  
ahmed@ahmed-VirtualBox:/tmp/shares$ ls  
filelab3.txt  
ahmed@ahmed-VirtualBox:/tmp/shares$ cd ~  
ahmed@ahmed-VirtualBox:~$ cp /tmp/shares/filelab3.txt /mnt  
ahmed@ahmed-VirtualBox:~$ cd /mnt  
ahmed@ahmed-VirtualBox:/mnt$ ls  
filelab3.txt  
ahmed@ahmed-VirtualBox:/mnt$ cd ~  
ahmed@ahmed-VirtualBox:~$ sudo iptables-save > /tmp/iptables-backup  
ahmed@ahmed-VirtualBox:~$ cat /tmp/iptables-backup  
# Generated by iptables-save v1.8.7 on Wed Apr 5 17:33:40 2023  
*filter  
:INPUT DROP [0:0]  
:FORWARD DROP [0:0]  
:OUTPUT ACCEPT [0:0]
```

