HỌC VIỆN CÔNG NGHỆ BƯU CHÍNH VIỄN THÔNG
KHOA AN TOÀN THÔNG TIN

BÁO CÁO BÀI THỰC HÀNH
HỌC PHẦN: AN TOÀN MẠNG NÂNG CAO
MÃ HỌC PHẦN: INT1483

BÀI THỰC HÀNH
Cấu hình tường lửa

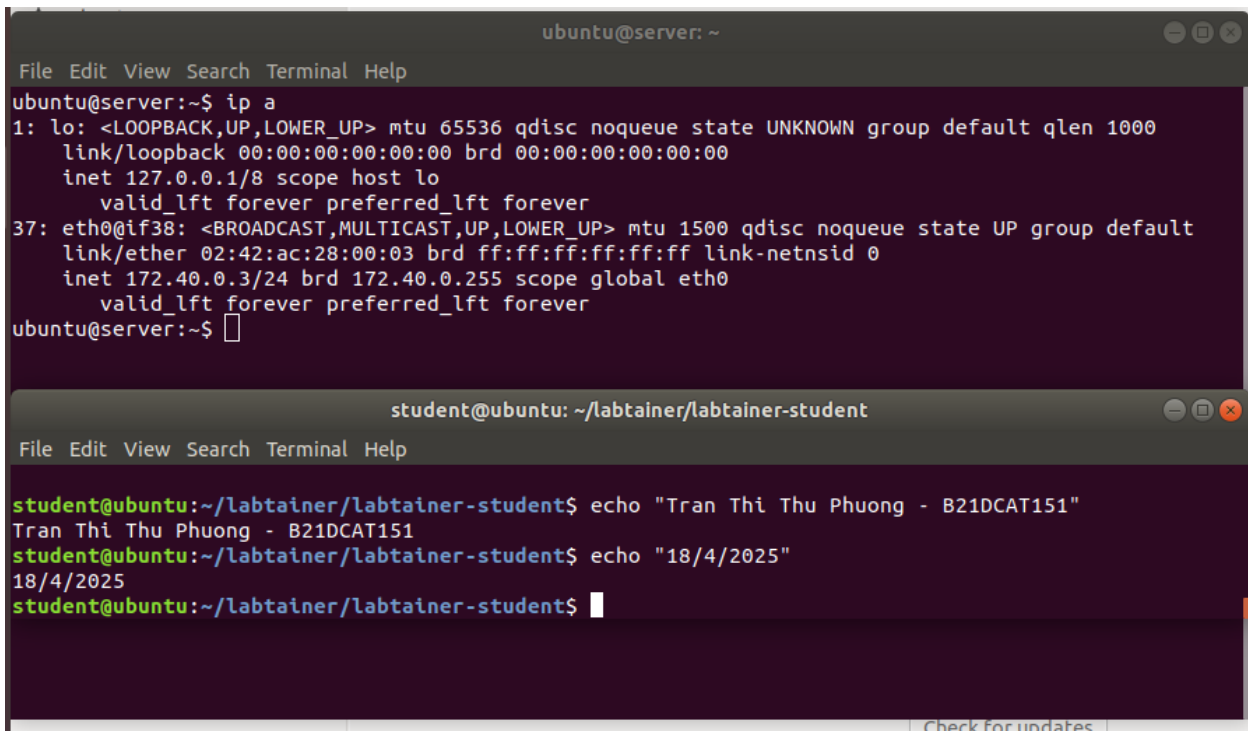Sinh viên thực hiện: Trần Thị Thu Phương

Mã sinh viên: B21DCAT151

Giảng viên hướng dẫn: TS. Phạm Hoàng Duy

HỌC KỲ 2 NĂM HỌC 2024-2025

1. Tiến hành cài đặt firewall
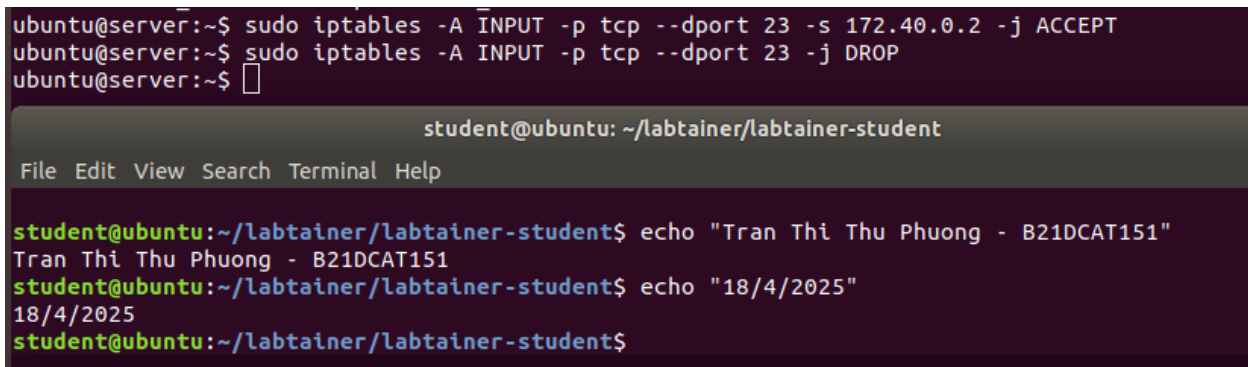
- Kiểm tra địa chỉ ip của server

- Trên terminal server thiết lập IP cấp phép truy cập và bật tường lửa để chặn IP

sudo iptables -A INPUT -p tcp --dport 23 -s 172.40.0.2 -j ACCEPT

sudo iptables -A INPUT -p tcp --dport 23 -j DROP

2. Telnet từ client đến server

- Từ client1 tiến hành telnet đến server

Kết nối đã bị chặn.

- Từ client tiến hành telnet đến server

3. Lấy file thành công từ server về client

```
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

ubuntu@server:~$ ls
flag.txt
ubuntu@server:~$ cat flag.txt
# Filename: filetoview.txt
#
# Description: This is a pre-created file for each student (telnet-server) container

# This file is modified when container is created
# The string below will be replaced with a keyed hash
My string is: 435ecaee15b4f407a919dc28ce3c41a1
ubuntu@server:~$ copy flag.txt
-bash: copy: command not found
ubuntu@server:~$ █
```

```
                    student@ubuntu: ~/labtainer/labtainer-student

 File  Edit  View  Search  Terminal  Help

student@ubuntu:~/labtainer/labtainer-student$ echo "Tran Thi Thu Phuong - B21DCAT151"
Tran Thi Thu Phuong - B21DCAT151
student@ubuntu:~/labtainer/labtainer-student$ echo "18/4/2025"
18/4/2025
student@ubuntu:~/labtainer/labtainer-student$ █
```

- Trên máy client, sao chép file từ server về client bằng lệnh scp

```
ubuntu@client:~$ scp ubuntu@172.40.0.3:/home/ubuntu/flag.txt ~/
The authenticity of host '172.40.0.3 (172.40.0.3)' can't be established.
ECDSA key fingerprint is SHA256:nFDnpYXdisAGpF1ZxOBv8Xc83CDp5qYU2frYQvB7Pt8.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '172.40.0.3' (ECDSA) to the list of known hosts.
ubuntu@172.40.0.3's password:
flag.txt                                         0%    0      0.0KB/s   --:-- E
flag.txt                                       100%  266    0.3KB/s   00:00

ubuntu@client:~$
```

```
                    student@ubuntu: ~/labtainer/labtainer-student

 File  Edit  View  Search  Terminal  Help
What is automatically assessed for this lab:


student@ubuntu:~/labtainer/labtainer-student$ echo "Tran Thi Thu Phuong - B21DCAT151"
Tran Thi Thu Phuong - B21DCAT151
student@ubuntu:~/labtainer/labtainer-student$ echo "18/4/2025"
```

- Tiến hành đọc file flag.txt

```
ubuntu@client:~$ ls
flag.txt
ubuntu@client:~$ cat flag.txt
# Filename: filetoview.txt
#
# Description: This is a pre-created file for each student (telnet-server) container

# This file is modified when container is created
# The string below will be replaced with a keyed hash
My string is: 435ecaee15b4f407a919dc28ce3c41a1
ubuntu@client:~$
```

```
                    student@ubuntu: ~/labtainer/labtainer-student

 File  Edit  View  Search  Terminal  Help
What is automatically assessed for this lab:


student@ubuntu:~/labtainer/labtainer-student$ echo "Tran Thi Thu Phuong - B21DCAT151"
Tran Thi Thu Phuong - B21DCAT151
student@ubuntu:~/labtainer/labtainer-student$ echo "18/4/2025"
```

4. Kiểm tra checkwork

```
student@ubuntu:~/labtainer/labtainer-student$ checkwork
Results stored in directory: /home/student/labtainer_xfer/ptit-firewall
Labname ptit-firewall

Student              |        firewall |        telnet |       fileview |
=================== | =============== | =============== | =============== |
B21DCAT151           |              Y |             Y |             Y |
What is automatically assessed for this lab:


student@ubuntu:~/labtainer/labtainer-student$ echo "Tran Thi Thu Phuong - B21DCAT151"
Tran Thi Thu Phuong - B21DCAT151
student@ubuntu:~/labtainer/labtainer-student$ echo "18/4/2025"
18/4/2025
student@ubuntu:~/labtainer/labtainer-student$ 
```