

## Task 4 : Setup and Use a Firewall on Windows/Linux

### UFW ON LINUX

Deny 23port on linux

Add a rule to block inbound traffic on 23 telnet

**Sudo ufw deny 23/tcp**

**Nmap -P 23 127.0.0.1**

*Remotely in windows :*

Opening in powershell:

**Test-NetConnection -Computername linux ipaddress -port 23**

*Restoring to its original state:*

**Sudo ufw reset**



```
vboxuser@ubuntu:~$ sudo ufw status
```

```
[sudo] password for vboxuser:
```

```
Status: inactive
```

```
vboxuser@ubuntu:~$ sudo ufw deny 23/tcp
```

```
Rules updated
```

```
Rules updated (v6)
```

```
vboxuser@ubuntu:~$ sudo ufw enable
```

```
Firewall is active and enabled on system startup
```

```
vboxuser@ubuntu:~$ sudo ufw status numbered
```

```
Status: active
```

	To	Action	From
	--	-----	----
[ 1]	23/tcp	DENY IN	Anywhere
[ 2]	23/tcp (v6)	DENY IN	Anywhere (v6)

```
vboxuser@ubuntu:~$ nmap -p 23 127.0.0.1
```

```
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-09-28 09:53 UTC
```

```
Nmap scan report for localhost.localdomain (127.0.0.1)
```

```
Host is up (0.00013s latency).
```

```
PORT      STATE SERVICE
```

```
23/tcp    closed telnet
```

```
Nmap done: 1 IP address (1 host up) scanned in 0.03 seconds
```

```
vboxuser@ubuntu:~$
```

```
Command Prompt
Windows PowerShell
Windows PowerShell

Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Lenovo> Test-NetConnection -ComputerName [REDACTED] -port 23
WARNING: TCP connect to ([REDACTED] : 23) failed

ComputerName      : [REDACTED]
RemoteAddress     : [REDACTED]
RemotePort        : 23
InterfaceAlias    : WiFi
SourceAddress     : [REDACTED]
PingSucceeded     : True
PingReplyDetails (RTT) : 0 ms
TcpTestSucceeded  : False

PS C:\Users\Lenovo> |
```

```
Nmap done: 1 IP address (1 host up) scanned in 0.05 seconds
vboxuser@ubuntu:~$ sudo ufw delete 1
[sudo] password for vboxuser:
Deleting:
deny 23/tcp
Proceed with operation (y/n)? y
Rule deleted
vboxuser@ubuntu:~$ sudo ufw delete 1
Deleting:
deny 23/tcp
Proceed with operation (y/n)? y
Rule deleted (v6)
vboxuser@ubuntu:~$ sudo ufw reset
Resetting all rules to installed defaults. Proceed with operation (y/n)? y
Backing up 'user.rules' to '/etc/ufw/user.rules.20250928_065607'
Backing up 'before.rules' to '/etc/ufw/before.rules.20250928_065607'
Backing up 'after.rules' to '/etc/ufw/after.rules.20250928_065607'
Backing up 'user6.rules' to '/etc/ufw/user6.rules.20250928_065607'
Backing up 'before6.rules' to '/etc/ufw/before6.rules.20250928_065607'
Backing up 'after6.rules' to '/etc/ufw/after6.rules.20250928_065607'
vboxuser@ubuntu:~$ sudo ufw status
Status: inactive
```