Shailesh Task 4

1. Op	en firewall con	figuration tool (Windows Firewall or terminal for UFW).
<u> </u>	vivekreddy@vive	kreddy)
L_\$	sudo ufw status	
Status	: inactive	
<u> </u>	vivekreddy@vive	kreddy)
L_\$	sudo ufw enable	
Firewa	all is active and en	abled on system startup
2. Lis	st current firewa	ll rules.
(vivekreddy@vive	kreddy)
L_ \$	sudo ufw status nu	ımbered
Status	: active	
То	Action	From
		
22	ALLOW IN	Anywhere
22	ALLOW IN	Anywhere (v6)
3. Blo	ock inbound tra	ffic on a specific port (e.g., Telnet - port 23).
	vivekreddy@vive	
•	sudo ufw deny 23	• /
Rule v	ıpdated	
	updated (v6)	
	-	
4. Tes	st the rule by att	empting to connect to that port locally or remotely.
<u> </u>	vivekreddy@vive	kreddy)
L_\$ -	telnet localhost 23	

Trying ::1 ...

Connection failed: Connection refused

Trying 127.0.0.1 ...

telnet: Unable to connect to remote host: Connection refused

5. Add rule to allow SSH (port 22) if on Linux.

—(vivekreddy@vivekreddy)

—\$ sudo ufw allow 22

Rule added

Rule added (v6)

6. Remove the test block rule to restore original state.

—(vivekreddy@vivekreddy)

—\$ sudo ufw delete deny 23

Rule deleted

7. Document commands or GUI steps used.

(vivekreddy@vivekreddy)

Rule deleted (v6)

___\$ nano firewall_commands.txt



8. Summarize how firewall filters traffic.

UFW is a simple tool to manage iptables-based firewall rules in Linux. By default, it denies all incoming traffic and allows all outgoing. Rules can be added to allow or deny traffic based on port or IP address. This exercise showed how blocking port 23 (Telnet) stopped access, and allowing port 22 (SSH) ensured secure remote access.

Screenshot:

```
vivekreddy@vivekreddy: ~
 F
                                          Q
vivekreddy@vivekreddy:~$ sudo ufw enable
[sudo] password for vivekreddy:
Firewall is active and enabled on system startup
vivekreddy@vivekreddy:-$ sudo ufw status
Status: active
To
                           Action
                                        From
22
                           ALLOW
                                        Anywhere
22 (v6)
                                        Anywhere (v6)
                           ALLOW
vivekreddy@vivekreddy:~$ sudo ufw deny 23
Rule added
Rule added (v6)
vivekreddy@vivekreddy:~$ telnet localhost 23
Trying 127.0.0.1...
telnet: Unable to connect to remote host: Connection refuse
vivekreddy@vivekreddy:-$ sudo ufw allow 22
Skipping adding existing rule
Skipping adding existing rule (v6)
vivekreddy@vivekreddy:-$ sudo ufw delete deny 23
Rule deleted
Rule deleted (v6)
vivekreddy@vivekreddy:~$
```