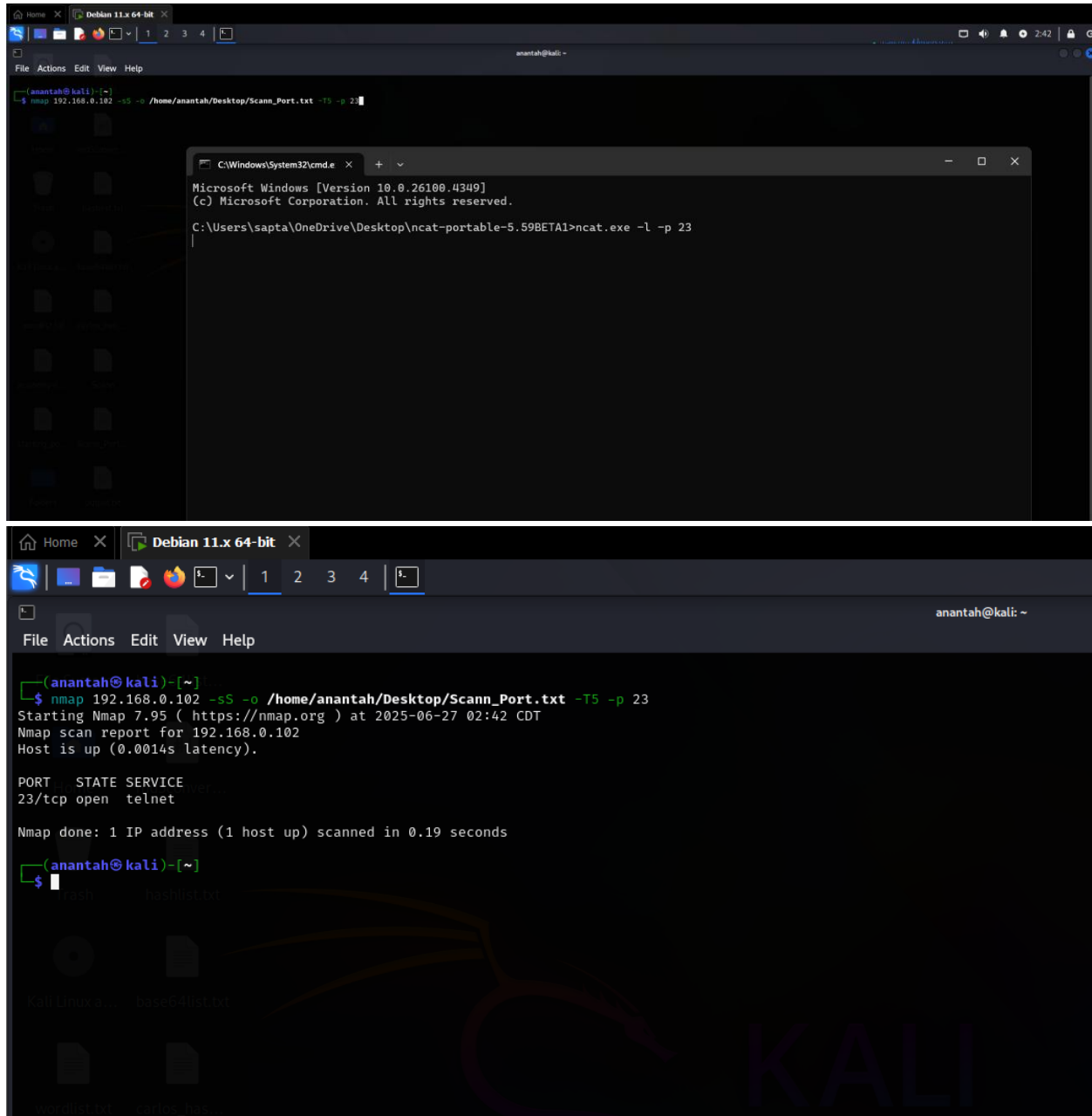


Task: Setup and Use a Firewall on Windows



```
(anantah@kali)~$ nmap 192.168.0.102 -sS -o /home/anantah/Desktop/Scann_Port.txt -T5 -p 23
```

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.26100.4349]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>ncat.exe -l -p 23
```

```
(anantah@kali)~$ nmap 192.168.0.102 -sS -o /home/anantah/Desktop/Scann_Port.txt -T5 -p 23
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-27 02:42 CDT
Nmap scan report for 192.168.0.102
Host is up (0.0014s latency).

PORT      STATE SERVICE
23/tcp    open  telnet

Nmap done: 1 IP address (1 host up) scanned in 0.19 seconds
```

As You can See My Telnet Port is shown As Open When I Scan.

Objective: Configure and test basic firewall rules to allow or block traffic.

Tools: Windows Firewall.

Deliverables: Screenshot/configuration file showing firewall rules applied.

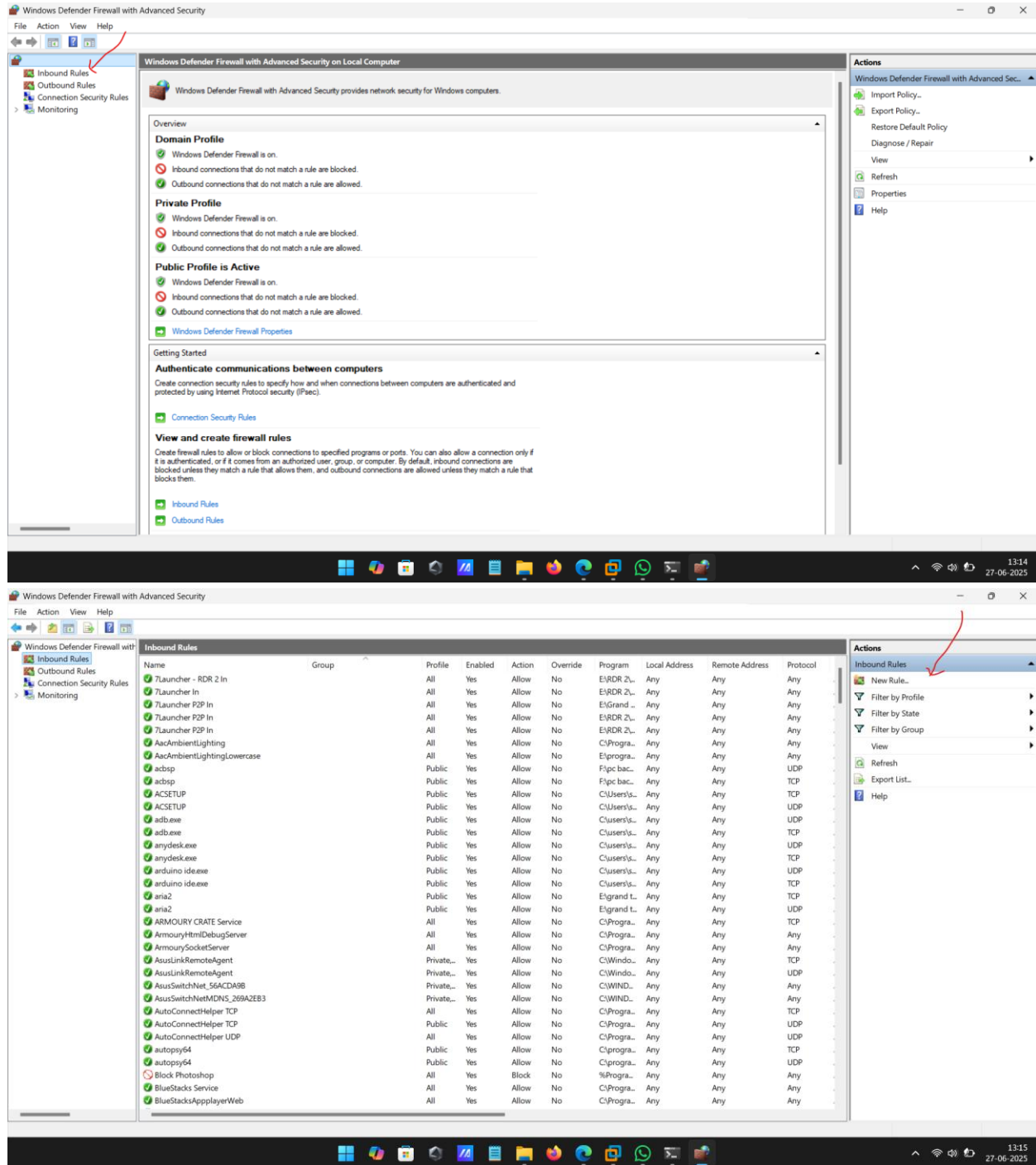
Steps Followed:

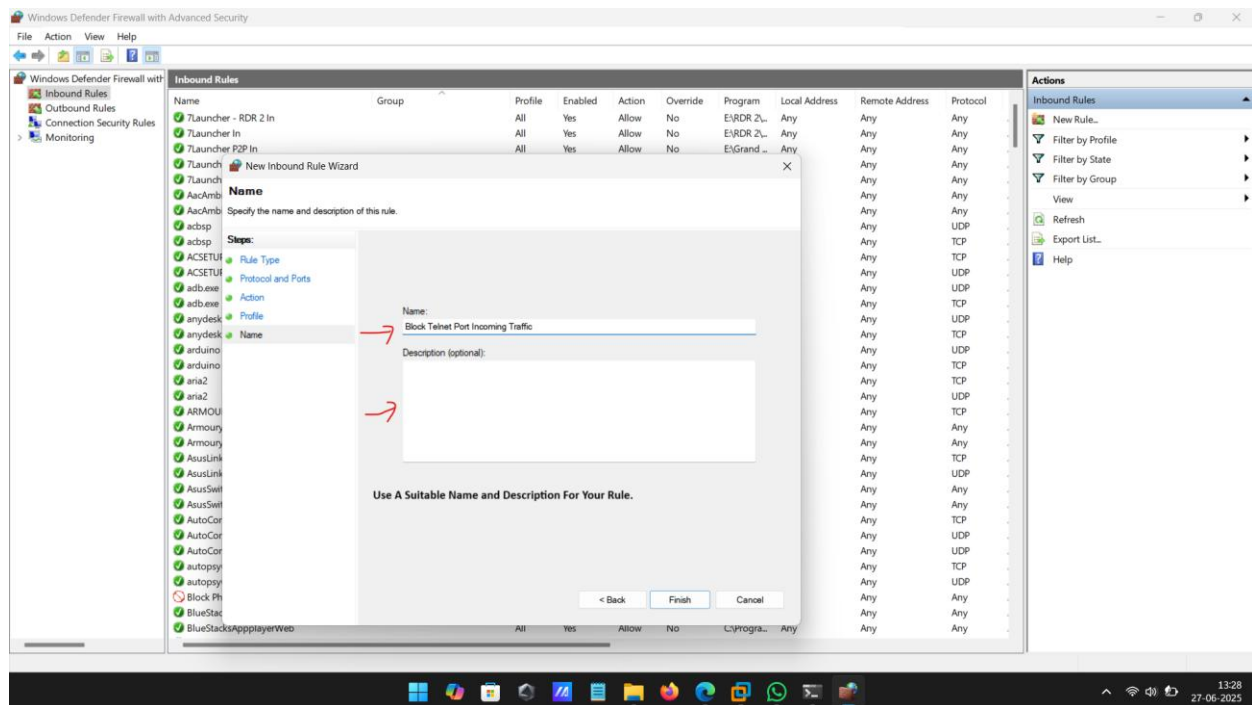
1. Opened the Windows Defender Firewall with Advanced Security.
2. Navigated to 'Inbound Rules' > 'New Rule...' to create a new inbound rule.
3. Chose 'Port' as the rule type and specified TCP port 23 (Telnet).
4. Selected 'Block the connection' to block incoming traffic.
5. Applied the rule to all profiles (Domain, Private, Public).
6. Named the rule 'Block Telnet Port Incoming Traffic'.
7. Saved and applied the rule.
8. Verified that the rule appears in the Inbound Rules list and is enabled.
9. Attempted a Telnet connection to localhost on port 23, which failed - confirming the rule works.
10. This screenshot shows the final step where the rule was named and confirmed.

Summary:

The firewall was configured to block Telnet traffic on TCP port 23. Before applying the rule, the port was open to connections. After applying the rule, all incoming Telnet traffic was blocked, effectively filtering unwanted access.

Screenshot of the configuration process:





After Configuration This What We can Observe :

The image displays two screenshots of a Kali Linux virtual machine (VM) running on VMware Workstation. The VM is named 'Debian 11.x 64-bit' and the user is 'anantah@kali'.

Top Screenshot: The terminal shows an nmap scan of 192.168.0.102. The output indicates that port 23/tcp is open and telnet is the service. The scan was completed in 0.22 seconds.

```
anantah@kali:~$ nmap 192.168.0.102 -oN /home/anantah/Desktop/Scann_Port.txt -T5 -p 23
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-27 03:00 CDT
Nmap scan report for 192.168.0.102
Host is up (0.0011s latency).

PORT      STATE SERVICE
23/tcp    open  telnet

Nmap done: 1 IP address (1 host up) scanned in 0.22 seconds
```

The Windows command prompt shows the execution of the ncat command to listen on port 23:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.26100.4349]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>ncat.exe -l -p 23
C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>ncat.exe -l -p 23
C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>ncat.exe -l -p 23
C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>ncat.exe -l -p 23
C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>ncat.exe -l -p 23
C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>
```

Bottom Screenshot: The terminal shows a second nmap scan of 192.168.0.102. The output indicates that port 23/tcp is filtered. The scan was completed in 0.33 seconds.

```
anantah@kali:~$ nmap 192.168.0.102 -oN /home/anantah/Desktop/Scann_Port.txt -T5 -p 23
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-27 03:00 CDT
Nmap scan report for 192.168.0.102
Host is up (0.0017s latency).

PORT      STATE SERVICE
23/tcp    filtered telnet

Nmap done: 1 IP address (1 host up) scanned in 0.33 seconds
```

The Windows command prompt shows the same ncat command being executed again:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.26100.4349]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>ncat.exe -l -p 23
C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>ncat.exe -l -p 23
C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>ncat.exe -l -p 23
C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>ncat.exe -l -p 23
C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>ncat.exe -l -p 23
C:\Users\sapta\OneDrive\Desktop\ncat-portable-5.59BETA1>
```

Observations: Any Incoming Traffic to port 23/tcp is blocked after applying the Firewall filter.

