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

Step 1: Check UFW installed and enable UFW

Step 2: View current Firewall rules

Step 3: Block telnet (port 23)

Step 4: Test telnet

```
(base) adminn@ak:-$ sudo apt install telnet -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Reading state information... Done
telnet is already the newest version (0.17-44build1).
telnet set to manually installed.
The following packages were automatically installed and are no longer required:
    libflashrom1 libftdi1-2 libllvm13
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 154 not upgraded.
(base) adminn@ak:-$ telnet 127.0.0.1 23
Trying 127.0.0.1...
telnet: Unable to connect to remote host: Connection refused
(base) adminn@ak:-$
```

Step 5: Allow SSH (port 22)

Step 6: Test SSH

```
(base) adminn@ak:-$ ssh localhost
ssh: connect to host localhost port 22: Connection refused
(base) adminn@ak:-$
```

Step 7: Solution to the issue faced

Step 8: Allow SSH

Step 9: Clean Up

```
(base) adminn@ak:~$ sudo ufw status numbered [sudo] password for adminn:
Status: active
           To
                                                                    Action
                                                                                              From
ALLOW IN
                                                                                              Anywhere
                                                                   ALLOW IN
DENY IN
ALLOW IN
ALLOW IN
DENY IN
ALLOW IN
ALLOW IN
ALLOW IN
                                                                                              Anywhere
                                                                                              Anywhere
                                                                                              Anywhere
                                                                                             Anywhere (v6)
Anywhere (v6)
Anywhere (v6)
Anywhere (v6)
(base) adminn@ak:-$ sudo ufw delete 8
Deleting:
allow 3435
Proceed with operation (y|n)? y
Rule deleted (v6)
(base) adminn@ak:-$ sudo ufw delete 7
Deleting:
allow 22
Deleting:
allow 22
Proceed with operation (y|n)? y
Rule deleted (v6)
(base) adminn@ak:-$ sudo ufw delete 6
Deleting:
Deleting:
deny 23
Proceed with operation (y|n)? y
Rule deleted (v6)
(base) adminn@ak:~$ sudo ufw delete 4
Deleting:
allow 3435
Proceed with operation (y|n)? y
Pule deleted
 Rule deleted
(base) adminn@ak:-$ sudo ufw delete 3
Deleting:
allow 22
Proceed with operation (y|n)? y
 Rule deleted
(base) adminn@ak:-$ sudo ufw delete 2 Deleting:
 deny 23
Proceed with operation (y|n)? y Rule deleted
(base) adminn@ak:~$ sudo ufw status numbered Status: active
                                                                    Action
                                                                                              From
            To
    1] 8000
2] 8000 (v6)
                                                                    ALLOW IN
                                                                                              Anywhere
                                                                                              Anywhere (v6)
```