**Practical - 05**

**Aim :**

Study and Implementation of Honeypot.

**Code :**

import socket

import atexit

# Local IP/Port for the honeypot to listen on (TCP)

LHOST = '0.0.0.0'

LPORT = 23

# Remote IP/Port to send the log data to (TCP)

RHOST = '192.168.1.210'

RPORT = 9000

# Banner displayed when connecting to the honeypot

BANNER = 'Ubuntu 14.04 LTS\nlogin: '

# Socket timeout in seconds

TIMEOUT = 10

def main():

print('[\*] Honeypot starting on ' + LHOST + ':' + str(LPORT))

atexit.register(exit\_handler)

listener.setsockopt(socket.SOL\_SOCKET, socket.SO\_REUSEADDR, 1)

listener.bind((LHOST, LPORT))

listener.listen(5)

while True:

(insock, address) = listener.accept()

insock.settimeout(TIMEOUT)

print('[\*] Honeypot connection from ' + address[0] + ':' + str(address[1]) + ' on port ' + str(LPORT))

try:

insock.send(BANNER)

data = insock.recv(1024)

except socket.error as e: # Use 'as' to catch the exception object

sendLog(address[0], 'Error: ' + str(e))

else:

sendLog(address[0], data)

finally:

insock.close()

def sendLog(fromip, message):

s = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

s.connect((RHOST, RPORT))

s.send('IP:' + fromip + ' Port:' + str(LPORT) + ' | ' + message.replace('\r\n', ' '))

s.close()

def exit\_handler():

print('\n[\*] Honeypot is shutting down!')

listener.close()

listener = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

if \_\_name\_\_ == '\_\_main\_\_':

try:

main()

except KeyboardInterrupt:

pass

**Output :**

