

NETWORK SECURITY (CS6500) - Tutorial 2a

Ms. Sehmat has been successful in identifying the crucial server critical for the nation's security. The server serves the nation's critical infrastructures via telnet connections. A denial of service attack against this server can result in significant loss to the country. Ms. Sehmat is planning such an attack against this server. You are assigned the role to assist Ms. Sehmat in this task. As the first step, she has to interrupt the existing connection between the legitimate clients and the server. Second, the server must be online, but yet should not be available for the requests from the client.

You are supposed to modify the given program to perform the attack.

Questions :

1. Describe the attack technique that you adopted for the two steps.
2. You can take the help of **Netwox** and **Netwag** tool for performing the attack.
List down the steps for performing the attack using these tools.
3. Describe how you come up with the conclusion that attack is successful.
4. After you have been successful with the attack using the tools, write your own code using raw sockets to perform the same attack. Write down the challenges you face as well as your analysis on how such a hand written code can be made to work similar to the netwox tool.
5. Demonstrate how long you were able to perform the attack successful (in terms of time). You can also use IO graphs in Wireshark statistics to demonstrate the volume and duration of the attack.

PS: You are supposed to submit the code along with the detailed report including screenshots.