

Advanced Distributed Systems

Assignment 2

Assignment given on: 1st Sept 2021

Due Date: 14th Sept 2021
(Maximum two members in a team)

Assignment 2 - Simulate the System resources attack

The objective of this assignment is to make you aware of threats due to cyber attacks and mitigation schemes.

You need to simulate at least 2 system resources(cpu, memory, etc.) attacks using any tools such as hping3, tcpdump, wireshark, ettercap, snort, etc. You are free to use any tools and programming language.

Caution Note:

- Install Virtualbox on your machine and simulate on the VM.
- Don't use any of the institute resources.
- Don't attack any websites or public resources

What to submit?

Submit a report which should explain the setup for Injecting, Launching one or more attacks, detection method and Performance metrics such as CPU and memory usage.

Marks: 30 marks

Report: 15 marks

Demo: 15 marks


Note:

1. Penalty of 10% per day will be issued if the deadline is not met
2. If found copied, you will fetch 0 score.

Submission Details:

1. Please read the questions carefully and complete them.
2. Make a directory with the name <Your_Roll_Number> and copy your all program (source code) and output file to that folder.
3. Implement the solution using any cyber attacking tools and free to use any programming language.
4. Please take a screenshot of the output, name it with its question number and put it in the same folder.
5. Test well before submission. Follow some coding style uniformly. Provide proper comments in your code.
6. Submit only through moodle and well in advance. Any hiccups in the moodle/Internet at the last minute is never acceptable as an excuse for late submission. Submissions through email will be ignored.
7. Please attach a readme.txt file
8. Please zip your folder and submit to moodle within 14-Sept-2021 (23:55 PM)

Reference:

 [Hping3 Demo- Kali Linux - Ping Flood and SYN Flood Attack - DOS and DDOS - Explain...](#)