[S25] Group Project Assignment (40%):

CyberCrime and Computer Forensics

Project description

In this group project, you will work on the ideas, which should be related to the materials covered in the course as well as the ideas that extend your knowledge. This is the time where you can apply your skills with your own ideas

Dividing into groups

Firstly, group your teammates (2-3 participants).

Secondly, use this link where you fill in the project details. The deadline for project approval is by Friday 18.04.2025. Once the project is approved you can start to work on it

Deliverables:

1. **Project Report (25%)**

   The report should contain the following sections:

   I. Goal/Tasks of the Project - what are you going to solve and responsibilities for each team member

   II. Execution plan/Methodology - plan for the solution, any graphs, schemes, description for the planned infrastructure

   III. Development of solution/Tests as the PoC - explanation and testing of the solution

   IV. Difficulties faced, new skills acquired during the project V. Your conclusion, your contemplations and judgment Be aware to include all important links (with the code, configurations etc) to open repos as the proof of concept. Long appendixes at the end in the report are ok to use

2. **Demo of the solution (15%)**

   Provide as the demo all results that were received during the project work (working solution, important configurations, testings etc). There is no limit in time, but make it concrete, with logical flow and clear. Demo can be recorded by any team member or all together. We recommend uploading video on any video hosting platform and to provide link in the report and in moodle.

3. **Submissions**

   The report should be uploaded to Moodle by each member of the group. As addition, you can use open repos such as GitHub, Gitlab, Docker hub etc. for storing scripts, configuration files, dockerfiles/containers etc. but provide links for that

Summary

- Form group, propose project idea and fill the table
- Project proposal deadline - by April, 18th
- No more than 3 members per group
- Project reports and demo deadline - by May, 15th
- You are free to select any other related topic, but it must be approved by the course instructor first. The project should include a clear problem statement, solution design, implementation plan, testing, and evaluation.

Below is a list of technology and directions you can pick up for the project:

- Digital forensics tools and techniques
- Incident response procedures
- Network and host-based intrusion detection systems (IDS/IPS)
- Malware analysis and reverse engineering
- Cyberthreat intelligence
- Cloud Forensics
- Blockchain forensics
- Mobile device forensics
- Data recovery and analysis
- Best practices for secure DevOps in the context of cyber forensics