COMP-8677 Project

The objective of the project is to build your self-learning and team work capability. It also gives an opportunity to conduct research and build your research capability. You need to form a team of **4-6 members** and the deadline of your report is **Dec 9**. The project should be done as a team work. Your team members now should not be changed without the instructor's permission. You have three options for the project. You need to tell me your option by Nov 8.

1. **Option 1 (research)**: choose a paper **published after 2010** from one of the venues: NDSS, PoPETs, IEEE ICBC, IEEE TIFS, IEEE TDSC, AsiaCCS, CCS, IEEE S&P.
   IEEE TIFS: https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=10206
   IEEE TDSC: https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=8858
   IEEE S & P: https://dblp.org/db/conf/sp/index.html
   AsiaCCS: https://dblp.org/db/conf/asiaccs/index.html
   CCS: https://dblp.org/db/conf/ccs/index.html
   NDSS: https://dblp.org/db/conf/ndss/index.html
   IEEE ICBC: https://dblp.org/db/conf/icbc2/index.html
   PoPETs: https://dblp.org/db/journals/popets/index.html

You can also choose one paper from other conferences but up to the instructor's approval. After you select the paper of your focus, send the file to me. Note one paper can only be approved to at most one group. For conferences, please do not choose the paper from the *affiliated* workshops.

Project Requirement: you need to focus on your selected paper and show your understanding on it. In your final report, you need to use your OWN language to write your understanding of the paper. Here the understanding includes clarifying the unclear or difficult details or giving some opinions on the claim in the paper (for example, the view in paper is correct/wrong, good/bad, interesting/trivial and give your reason) and (if possible) some programming experiment are encouraged. Any meaningful programming experiment will be given up to **3 bonus** points. In this sense, anything related to the paper will count. But do not copy programs from other sources. For your report, you should NOT copy any sentence of the paper. When you describe the idea, algorithm or analysis of the paper, you need to understand the content first and then write it in your own language.

2. **Option 2** (*programming project*). You can propose a programming project that you want to explore. The topic can be any but it has to be security related. You need my approval before you start. Any attempt for this type of project will be encouraged. Requirements: source code and report on your project documentation (introduction to your project, design and how they are implemented and what is the performance).
3. **Option 3** (*seedlab learning*). In seedlab website, there are a lot of security experiments. We have only learned only a few of them. In this option, you can choose one new lab to learn. Requirements: write a report and demonstrate to me how it works.
4. **General requirements for all options:**
   a) Project has 16 points in total (12 points for **report** and 4 points for **presentation**). Exceptional projects will be given up to 3 bonus points.
   b) Your project file should be at least 10 pages and at most 25 pages (page style: one column, 1.0 line spaced with font size 14. This style is the same as *this guideline* you are reading).
   c) For your submission, all files should be submitted to brightspace. However, it you have a zip file (e.g., your source code), you probably are unable to submit there. In this case, email your zip file directly to me.