

SENG 360 Assignment 1 - Protocols

To be worked on individually

Social Engineering / Phishing

Phishing is a form of fraud in which the attacker tries to learn information such as login credentials or account information by masquerading as a reputable entity or person in email, IM or other communication channels.

Tools such as the Social Engineering Toolkit (SET) discussed in class make it easy for attackers to launch phishing campaigns. However, they also facilitate the task of defenders (security officers) to raise awareness about the threat of phishing and social engineering in general.

In this part of the assignment, you will use such a phishing campaign generator tool to create a phishing campaign for educational purposes.

Rather than requiring a particular tool to be used, in this assignment, I want you to do some research on available tools and allow you to pick one of your choosing.

Before you go any further: This course is not about training you how to become hackers (attackers). However, you have to understand the tools and methods that hackers use in order to become good security engineers. Moreover, phishing campaigns can be used as an instrument for educating the members of an organization about security – and some tools actually have educational material built in (e.g., Phish5). Please do not use any of what you have learned here in any other way as for the pre-approved purpose in this assignment.

Your objective for this assignment is to set up a phishing campaign for educational purposes. The only “victim” you are allowed to target with your campaign is yourself.

(You can register throw-away email addresses for yourself for that purpose, if you do not want to use any of your permanent email addresses.)

Step 1: Select a tool that helps you create a phishing campaign

Do some research on the Internet. You should have no problems finding tools that can be used here. If you have problems finding one (or using one) then please post at the course Q&A forum and the class community will help you. (Yes, and since you are part of that community, you are encouraged to help others with their questions. *But please do not share complete solutions to this assignment. This assignment is still to be completed individually.*)

Step 2: Create and execute a phishing campaign (on yourself)

As mentioned above, you can register a few throw away email addresses for that purpose. Please record what you have been doing, so that you can write this up as a “How to” in your assignment report.

Step 3: Write your assignment report

In your report, indicate which tool(s) you have been using and a step-by-step description of how you designed and executed your phishing campaign. (Include screen shots and details to allow others to see exactly what you did.) Your report should also have a section where you critically appraise the tool and phishing campaign you have created with it. Do you feel your chosen tool/approach could be effective? Do you see any weaknesses? Please also comment on any difficulties you encountered.

Evaluation

Category	100%	75%	50%	25%
Content	Student was able to design and execute an effective phishing campaign.	Student was mostly able to design and execute an effective phishing campaign. Minor technical difficulties existed that could not be overcome.	Student designed phishing campaign but was not able to complete its execution.	Student attempted to design phishing campaign but did not complete the design and execution.
Form / Detail	All steps are described with sufficient detail and excellent clarity.	Most steps are described with sufficient detail and excellent clarity.	The described steps lack some clarity or are reported without clear structure.	Structure and detail of the step-by-step report are mostly insufficient
Critical appraisal	The student provided an excellent critical appraisal of the designed phishing campaigns likely effectiveness (including the tool support used).	The student provided an insightful critical appraisal of the designed phishing campaigns likely effectiveness (including the tool support used).	The report contains some critical appraisal of the effectiveness of the chosen tool and designed campaign – but it is quite shallow.	The report contains very little critical appraisal of the effectiveness of the chosen tool and designed campaign

Deliverable & Details

Submit your answers as one single PDF file on coursespaces by September 28th.

Please note:

- this assignment is to be worked on individually
- please reference any source for information you are copying from somewhere else
- your report may be posted on the course web site (after marking and without and grading info, of course) so that others in the course can learn about different tools.