

SWEET Project: Online Banking Security

SWEET Project: Online Banking Authentication

Purpose: This project will ask you to investigate various security issues in online banking web portals. When executing this project, you will need to understand the problem, investigate solutions to this problem using SWEET, write a detailed project report and present your findings to the class.

Teams: The project is for a team of 3-4 students.

Problems:

Pace Bank has provided banking services online through a web site for their customers. A recent FFIEC document requires banks to examine their web sites for risk factors and implement two-factor authentication. Please access the web portal of Pace Bank. To access Pace Bank web portal, please install SWEET on two computers. Launch Pace Bank web server on one computer and access/audit the web portal from another computer. Write up a report to answer the following questions:

- 1) What authentication method have Pace Bank implemented?
- 2) Identify the vulnerabilities of Pace Bank web portal. You can utilize the web vulnerabilities auditing tool on SWEET to search for vulnerabilities.
- 3) Read the FFIEC Guidance Authentication in an Internet Banking Environment. Is Pace Bank web portal compliant to the FFIEC guideline?

Readings: FFIEC Guidance Authentication in an Internet Banking Environment (<http://www.fdic.gov/news/news/financial/2005/fil10305.html>)

Project report

The reports should summarize what you have accomplished for your term project. It should have the following sections:

- **Cover page** – List the topic, the names and email addresses of all team members.
- **Introduction** – Introduces the topic, the problem and the goal of the project.
- **Background** – provides background information about the topic being investigated.
- **Lab Design** – Describes the lab exercises that you designed to investigate the problems.
- **Results** – Describes the results from your lab and what you have learned from this lab.
- **Conclusions** – Discusses your contributions, impact of your results and maybe future works.
- **References** – List any bibliography that you have used in the project.

Presentation & Lab Demo

Your team will present the project in PowerPoint slides and demo your results using SWEET virtual machine. The presentation should give some background on your topic, describe the problems that you are trying to solve and explain what you did to tackle the problems.