

# SWEET Project: Brute Force Attack

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**Purpose:** HTTP is one of the easiest protocols to break with brute force because most popular Web servers are designed to handle a large volume of HTTP requests. One of the most robust Web authentication brute forces: Brutus, allows HTTP (basic authentication and HTML Form/CGI), POP3, FTP, SMB and Telnet authentication brute forcing. When executing this project, you will understand the problem, investigate solutions to this problem, write a detailed project report and present your finding 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. Download free Brutus from [www.hoobie.net](http://www.hoobie.net). Brutus runs on Windows. Read the document about how to use Brutus. First, you use Brutus to brute force a standard HTTP Basic page. If you have exhausted the list of usernames and passwords, you can allow Brutus to identify the password with its brute-force options. Second, you try the HTTP Form attempts, which is the real advantage of using Brutus for Web password cracking. Brutus offers a number of features that accommodate whatever form you have, including the support of cookies and user-defined responses.

## **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.