

# **Capstone information Security Project**

**Development of Python based toolkit to integrate generation testing tools in a centralised platform with concentration on TCPDUMP**

## **Group Members**

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**Instructor:**

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# Project Plan

**Project title:**

Development of Python based toolkit to integrate generation testing tools in a centralised platform with concentration on TCPDUMP

**Project Tools:**

- Python
- SQLite Database
- Third Party Tools

Milestone#	Phase#	Task	Deliverable	Date
1	Phase 1- Information gathering	<ol style="list-style-type: none"><li>1. Collection of information.</li><li>2. Getting 3rd party tools which are compatible with python</li><li>3. Collecting information about the tools for the framework.</li></ol>	<ol style="list-style-type: none"><li>1. Collection of tools</li><li>2. System requirements.</li></ol>	May 25, 2017

2	Phase 2- Building Python Framework	<ol style="list-style-type: none"> <li>1. Building the structure for the application</li> <li>2. Selecting the Sub routines for the framework.</li> <li>3. Make the framework flow.</li> <li>4. Wiring sub routine for the python frame work.</li> <li>5. Writing the functions to include the 3rd party modules like import, phrase etc.</li> </ol>	<ol style="list-style-type: none"> <li>1. Basic Framework structure in python</li> <li>2. Sub routine names and working.</li> <li>3. Working basic terminal framework in python.</li> <li>4. Working modules for importing and loading scans</li> </ol>	Jun 15, 2017
3	Phase 3 - Add 3rd Party tools	<ol style="list-style-type: none"> <li>1. Adding 3rd party tools to the framework.</li> <li>2. Adding Heartbleed Test.</li> <li>3. Adding Subdomain Scan.</li> <li>4. Adding Poodle Test.</li> </ol>	<ol style="list-style-type: none"> <li>1. Running Tools with basic tests.</li> <li>2. Importing modules and load scan module working.</li> <li>3. Working load target.</li> <li>4. Working Subdomain modules.</li> <li>5. Working Hearbleed Test.</li> </ol>	July 15, 2017
4	Phase 4 - Adding TCP Dump	<ol style="list-style-type: none"> <li>1. Understanding the TCPDUMP.</li> <li>2. Adding TCPDUMP to the framework.</li> <li>3. Final Flow</li> </ol>	<ol style="list-style-type: none"> <li>1. Complete tool working with TCPDUMP.</li> <li>2. Final framework and published on Github.</li> </ol>	August 20, 2017