

PROJECT

Project Scenario 2

Best Cyber Pte Ltd has just clinched a deal from an important client ABWeb Pte Ltd. The project is to create an application to perform penetration testing on their website to determine vulnerability.

ABWeb believes that Python is one of the most appropriate programming languages for to be used for pen-testing. ABWeb is expecting to use Python to create script(s) to perform the first two step of pen-testing namely reconnaissance and mapping.

Being an experienced Pen-Tester, you have been tasked to work with two other cyber-security specialists to develop a script to perform the task. The script should include test cases, results and technical documentation for this project.

Tasks

LAB 6

1. Create a project named DA_<Group Name> with script(s) to use Python version 3.0 or higher.
 2. The project should include Version Control Systems (VCS) for team collaboration. The team is expected to demonstrate on how to create or update project and script(s) to VCS (Github).
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3. The project should import appropriate libraries in the script.
 4. The uniform resource locator should be correctly defined for the imported library class to retrieve the relevant data.
 5. The script needs to demonstrate the following reconnaissance procedure:
 - i. Perform a "get" request on the given website
 - ii. Display an "OK" return status
 - iii. Display the Website header
 - iv. Modify the Header user-agent to display "Mobile"
 6. Modify the script to perform mapping on the website in the following manner:
 - i. Use Scrapy web-crawler with appropriate parser "response.css"
 - ii. Display reference webpage
 - iii. Store the retrieve information in JSON
 7. Perform the modification to the script to recursively extract JPG images on all known links. Display the list of image links.
 8. The project should also include a Test Case with appropriate Test function(s) to test your application.
 9. Finally, a presentation is required to share your insights.

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