Developer Practical Assignment

Exam Objectives

- The main goal of this exam is to create a bare-bones POC-like solution for DDoS Testing.

- You will have to build the system according to the provided requirements and architecture and produce a **working** "product" with the required functionality.

For this purpose, we have provided the application layout.

High-Level Problem Definition

In this assignment, you are asked to implement a command-and-control (C&C) server along with the attacker code.

This system is made up of two main components:

1. The C&C server - Allows you to launch new DDoS attacks and list or stop existing ones.
2. An attacking bot that is controlled by the C&C server.

Requirements & Deliverables+

At the end of the practical exam, make sure you have completed 1 and 2.

1. Implement a web application using Python and the Django web framework with an attacker script that can connect and fetch commands.

2. Provide the results zip file with all codes in it. The only actions required to start the solution should be to run the Django server and the attacker script.

Web Application

1. "Attacks View"

    a. List all attacks - one per line

    b. Columns - name, status(new/running/done), started at, stop button per attack.

    c. Checkbox by each line for bulk 'Stop' operation.

2. "Start Attack View"

    a. Input field for the name of the Attack.

    b. Input for the command to launch.

    c. 'Start' button.

    d. 'Cancel' button.

Attacks View

	Name	Status	Started At	Actions
☐	Attack 1	Stopped	17:00	Stop
☐	Attack 2	Running	17:50	Stop
☐	Attack 3	New	19:20	Stop

Stop   Start New Attack

Start New Attack

Name: _____
Command: _____

Start   Cancel

Notes

- Do not hesitate to contact us in case you need anything clarified.

- Before submitting your practical home assignment, please validate that **everything works as expected**.

- Asking for help is permitted, **given that you have exhausted your knowledge and googling ability.**

- Do **NOT** spend your time on styling - you won't get bonus for the front-end so only do the bare minimum.

Resources and hints

- If you don't have experience with it – Django's "Get Started" documentation is very well written and is a good resource for the test.

Good luck!