

An Advanced Security Framework for Active and Passive Reconnaissance - Setup & Run Guide

System Requirements

- - Operating System: Linux, macOS, or Windows
- - Python Version: Python 3.7 or higher
- - RAM: At least 2 GB
- - Internet Access: Required for external enumeration & scanning

Install Python & pip

- On Linux/macOS:
 sudo apt update
 sudo apt install python3 python3-pip -y
- On Windows:
 Download Python from <https://www.python.org/downloads/>
 Ensure 'Add Python to PATH' is checked during install

Project Directory Structure

- project/
 - ├─ app.py
 - ├─ wordlists/
 - └─ common.txt
 - ├─ templates/
 - ├─ index.html
 - ├─ sql_attack.html
 - ├─ xss_attack.html
 - ├─ subdomain.html
 - ├─ url_grabber.html
 - ├─ testing.html
 - ├─ directory_traversal.html
 - └─ all_type_attack.html
 - └─ static/

Install Required Python Packages

- pip install flask aiohttp aiofiles beautifulsoup4 dnspython validators requests
- Optional (to disable SSL warnings):
 pip install urllib3
- Add to app.py:
 import urllib3
 urllib3.disable_warnings(urllib3.exceptions.InsecureRequestWarning)

Run the Flask Application

- In the project folder:
python app.py

Access the Web Interface

- Open browser and go to: `http://127.0.0.1:5000/`

Available Features & Routes

- `/` – Home
- `/sql_attack` – SQL Injection Scanner
- `/xss_attack` – XSS Scanner
- `/directory_traversal` – Directory Traversal
- `/subdomain` – Subdomain Enumerator
- `/url_grabber` – URL Grabber
- `/all_type_attack` – All-in-One Attack Panel

Functionality Overview

- SQL Injection:
 - Upload payload file
 - Input target URL
 - Real-time scan logs
- XSS Testing:
 - GET/POST modes
 - Optional blind mode
- Directory Traversal:
 - Tests common OS paths
 - Highlights leakage indicators
- Subdomain Enumeration:
 - Passive (crt.sh, AlienVault, RapidDNS)
 - Active brute-force
- URL Extraction:
 - Paste or upload text
 - Extracts and scrapes URLs

Saved Data Files

- - `subdomains_<domain>.txt`
- - `extracted_urls.txt`

Stopping the App

- Use CTRL+C to stop the server
- Clean files manually:
`rm subdomains_*.txt`
`rm extracted_urls.txt`

Optional: requirements.txt

- Contents:
flask
aiohttp
aiofiles
beautifulsoup4
dnspython
validators
requests
urllib3
- Install with:
pip install -r requirements.txt