

Day 51

Topic: Python for Pentesting

Objective: To write custom scripts in Python to automate hacking tasks.

Theoretical Concepts:

Python is the language of choice for security professionals due to its powerful libraries. We covered the basics: variables, loops, functions, and the *socket* library for networking.

Practical Work:

We wrote a simple **Port Scanner** in Python. The script iterated through a range of ports, attempted to connect using a socket, and reported if the port was open. We also wrote a basic "Banner Grabbing" script that connected to a server and printed the service version banner (e.g., detecting SSH version).

Tools Used: Python3, VS Code.

Outcome: Created a functional security tool from scratch using Python.