Python libraries developed to interact with remote servers running different services like FTP, HTTP, SSH can be used to launch/automate different attacks. In this section, we will cover different types of live servers and perform interaction/attacks on those using Python.

What will you learn?

- Automating interaction with FTP, SSH, HTTP servers
- Automating Nmap scans

References:

1. FTPlib documentation (https://docs.python.org/3/library/ftplib.html)
2. Paramiko (http://www.paramiko.org/)
3. Python-nmap (https://xael.org/pages/python-nmap-en.html)
4. PExpect documentation (https://pexpect.readthedocs.io/en/stable/)

Labs Covered:

- Attacking FTP Servers
  In this lab, you will learn to perform dictionary attacks and automate interaction on the FTP server using the ftplib Python library.

- Attacking SSH Servers
  In this lab, you will learn to perform dictionary attacks and automate interaction on the SSH server using the paramiko Python library.

- Attacking Web Portals
  In this lab, you will learn to perform dictionary attacks and automate interaction on the web server using the request and beautiful soup Python libraries.

- Automating Nmap Scans
  In this lab, you will learn to automate Nmap scans using Python-nmap Python library.

- Automating FTP Interaction
  In this lab, you will learn to automate interaction with an FTP server using the pexpect Python library.

- Banner and Information Grabbing
  In this lab, you will learn to perform banner grabbing and fingerprinting different services using various Python libraries and socket programming.
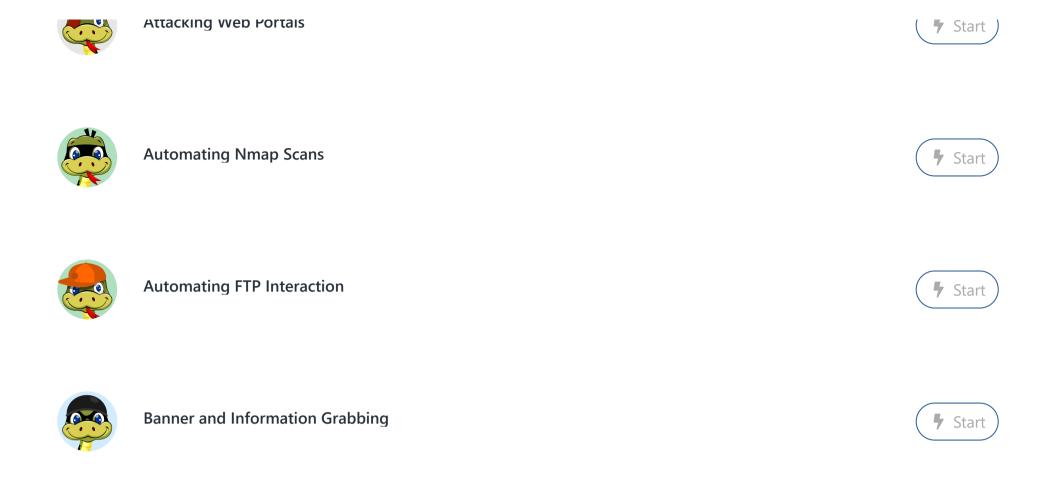
	Attacking FTP Servers	⚡ Start

	Attacking SSH Servers	⚡ Start

Attacking Web Portals

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Automating Nmap Scans

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Automating FTP Interaction

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Banner and Information Grabbing

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