CHAPTER 06

MODULE & LIBRARY

Module & Library dalam Python

Module

- satu file .py
- o ada code (variable, function, class) yang bisa dipakai (reusable)

• Library

- satu paket berisi beberapa module
- o memiliki domain yang spesifik
- o dapat di-install ke dalam sistem
- Jika memungkinkan, pakailah library yang umum. Kenapa?
 - o library yang open-source dan well-maintained sudah teruji kualitasnya.
 - mempercepat proses development

Tipe Library dalam Python

• Python Standard Library

- bawaan Python: fungsi fundamental
- o contoh: os, sys, random, math, datetime, se

• External Library

- library buatan engineer lain
- repository resmi: https://pypi.org/
- instalasi
 - pip install library_name

Library Terkait Cybersecurity

LIBRARY	USE CASE
scapy	Packet crafting, sniffing, network discovery
socket	Low-level networking (custom TCP clients, scanners)
requests	Web interaction, HTTP fuzzing, form brute force
nmap	Interact with Nmap from Python
paramiko	SSH automation, brute-force tools
shodan	Query Shodan search engine
pycryptodome	Encryption/decryption, crypto algorithms
beautifulsoup4	HTML parsing for web scraping
subprocess	Automating shell commands
pwntools	CTF scripting, exploitation
pylibnet	Packet injection (lower-level than Scapy)

Praktik

• SSH Brute Force with paramiko library

- Ingat DRIVE Framework
- Pasang virtual env
- Instalasi library
- o koding!

