Video on API Hacking by David Bombal: <https://www.youtube.com/watch?v=Clu3-5TFdw0>

A video on APISEC university’s course: <https://www.youtube.com/watch?v=CkVvB5woQRM>

APISEC university’s API security course: <https://university.apisec.ai/apisec-certified-expert>

This is a completely free course. The course has 13 categories. Each has a small quiz at the end:

1. Introduction
2. Lab Setup
3. API Reconnaissance
4. Endpoint Analysis
5. Scanning APIs
6. API Authentication Attacks
7. Exploiting API Authorization
8. Testing for Improper Assets Management
9. Mass Assignment
10. Server-Side Request Forgery
11. Injection Attacks
12. Evasion and Combining Techniques
13. Conclusion
14. **Introduction**

A basic introduction of the course and a bit about the “Hacking APIs” book written by the course instructor Corey Ball.

1. **Lab Setup**

(Installation procedures will be in videos of this category)

This category is about installing Kali Linux VM, and important tools used in this course.

Install kali prebuilt image for you VM. Update and upgrade it.

Burp Suite should be already installed. If not, install it. Install Autorize extension for it. It is used to perform automated authorization testing. This extension needs Jython to be installed. (Install the Jython standalone jar, then add it as a python environment in options under the extension tab of Burp Suite.)

We must use proxy in our browser for its traffic to be visible in Burp Suite. We can configure the proxy manually or install an extension like FoxyProxy and add proxies for burp suite and postman to easily switch proxies. (Proxies are, 127.0.0.1 with 8080 for BS, 5555 for PM)

Download CA certificate from <http://burpsuite> and add it to the browser.

Install postman, mitmproxy2swagger, git, docker-compose, docker.io, golang-go, jwt\_tool, kiterunner, Arjun, zaproxy and update OpenAPI support in it.

Install crAPI and vAPI as testing labs.

1. **API Reconnaissance**

This category deals with how to find APIs. Passive Reconnaissance is done using the power of OSINT. We can search for API keys, credentials, .json web tokens left unsecured on the internet. Passive Reconnaissance is done with the help of google and git dorking, API directories, The Wayback Machine and Shodan. You can search for swagger.json files and export them to postman where you can further work on them, or search for unsupported things in an API using Wayback machine.

In Active Reconnaissance, we use tools like Nmap , gobuster, kiterunner, amass and devtools of a browser. You can use crAPI installed in previous module, to do you practice.

**Gobuster** is used to brute force websites for their sub links. We use dev tools(network) to copy a query as cURL from and analyze it further in postman.

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