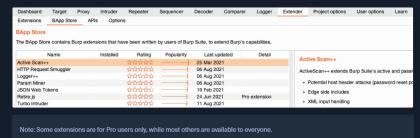
Cheat Sheet

Extensions

Both Burp and ZAP have extension capabilities, such that the community of Burp users can develop extensions for Burp for everyone to use. Such extensions can perform specific actions on any captured requests, for example, or add new features, like decoding and beautifying code. Burp allows extensibility through its Extender feature and its BApp Store, while ZAP has its ZAP Marketplace to install new plugins.

BApp Store

To find all available extensions, we can click on the Extender tab within Burp and select the BAPP Store sub-tab. Once we do this, we will see a host of extensions. We can sort them by Popularity so that we know which ones users are finding most useful:



We see many useful extensions, take some time to go through them and see which are most useful to you, and then try installing and testing them. Let's try installing the Decoder Improved extension:



to install them before being able to install the extension.

extension's documentation in BApp. Store to read more about it or visit its GitHub page for more information about its usage. We can use this extension just as we would use Burp's Decoder, with the benefit of having many additional encoders included. For example, we can input text

Da	shboard	Tar	get	Prox	y I	ntrude	r	Repea	ater	Seq	uence	r	Deco	der	Compare	r Logger	Extender	Project options	User options	Learn	Decoder Improved	
1																						
1	HTB Acade	emy																				○ Text ○ Hex ×
																						Hash with
																						MD5
																						11 Bytes Wrap line
																						Save as v
		00	01	02 0	3 04	0.5	0.6	07 0	8 01	9 OA	OB	0.0	0.0	0E 0	F							O T 0 11
0.0				2D 2				5C 4								AP O \Ag OO	200					Text O Hex ×
	000010	0.0	55	20 2		50	04	30 4		, 55	54		DA	AU 1.	- W- A	AI WINGOO	***					
																						Plain ~
																						16 Bytes Whap line
																						Save as v

Similarly, we can perform other types of encoding and hashing. There are many other Burp Extensions that can be utilized to further extend the functionality of Burp.

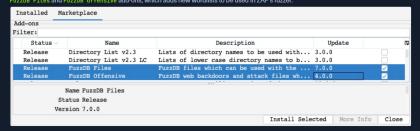
.NET beautifier	J2EEScan	Software Vulnerability Scanner
Software Version Reporter	Active Scan++	Additional Scanner Checks
AWS Security Checks	Backslash Powered Scanner	Wsdler
Java Deserialization Scanner	C02	Cloud Storage Tester
CMS Scanner	Error Message Checks	Detect Dynamic JS
Headers Analyzer	HTML5 Auditor	PHP Object Injection Check
JavaScript Security	Retire.JS	CSP Auditor
Random IP Address Header	Autorize	CSRF Scanner
IS Link Finder		



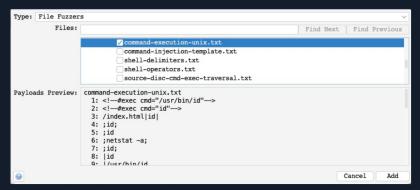
∞ / 1 spawns left



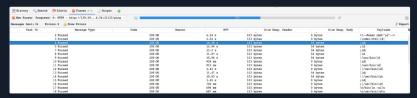
In this tab, we can see the different available add-ons for ZAP. Some add-ons may be in their retease build, meaning that they should be stable to be used, while others are in their Beta/Alpha builds, which means that they may experience some issues in their use. Let's try installing the FuzzoB Files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



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, Ffuf, Gobuster, etc.

