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Name	FuzzDB: Fault Injection Testing
URL	https://www.attackdefense.com/challengedetails?cid=2059
Type	DevSecOps Basics: Dynamic Code Analysis

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Challenge Description

<u>Fuzzdb</u> is a dictionary containing attack payload primitives for fault injection testing. <u>OWASP</u> <u>ZAP</u> is an open-source framework for performing dynamic analysis on web applications.

A Kali machine with OWASP ZAP and FuzzDB ZAP plugin is available to the user. A vulnerable web portal is also provided for testing. The details of this portal are given below:

Web Portal	Web Portal URL
School Homework Web Portal	school-homework

Objective: Use the OWASP ZAP tool with FuzzDB to identify issues in the web application!

Lab Setup

On starting the lab, the following interface will be accessible to the user.

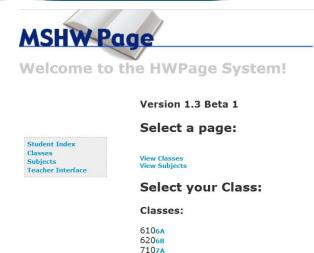
Kali

School Homework

On choosing (clicking the text in the center) top left panel, KALI GUI will open in a new tab



Similarly on selecting the top right panel, a web UI of **School Homework UI** will open in a new tab.

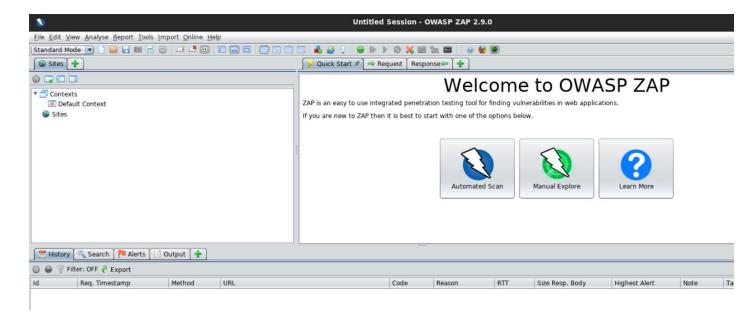


Solution

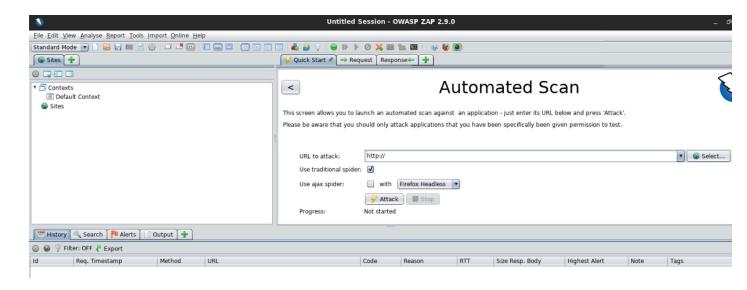
Step 1: Start the OWASP ZAP located under Web Application Analysis



Click on the owasp-zap.

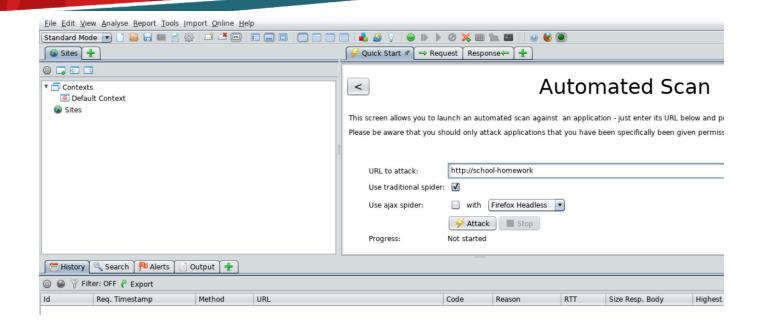


Step 2: Click on the Automated Scan button

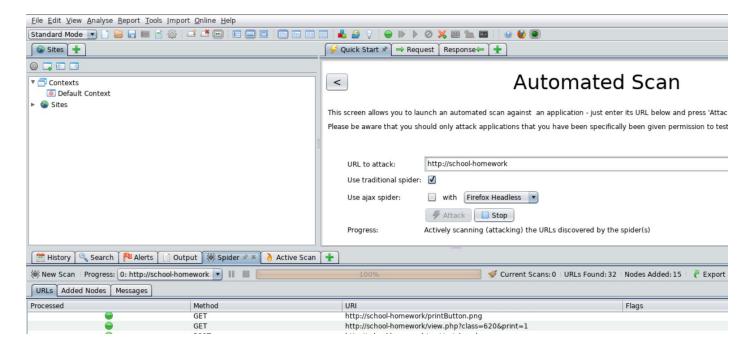


Step 3: Enter the target URL in the "URL to the attack" field.

URL: http://school-homework

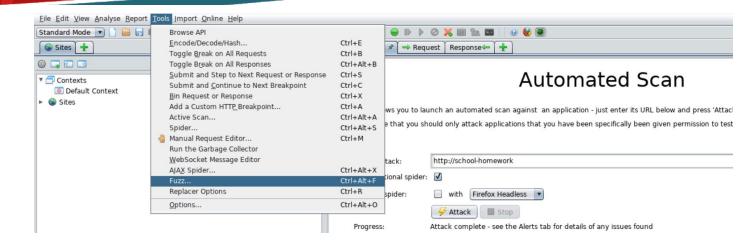


Click on the Attack button.

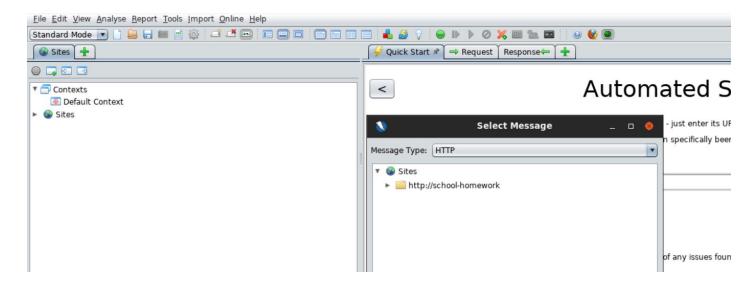


The tool will start the automated attack on the target website.

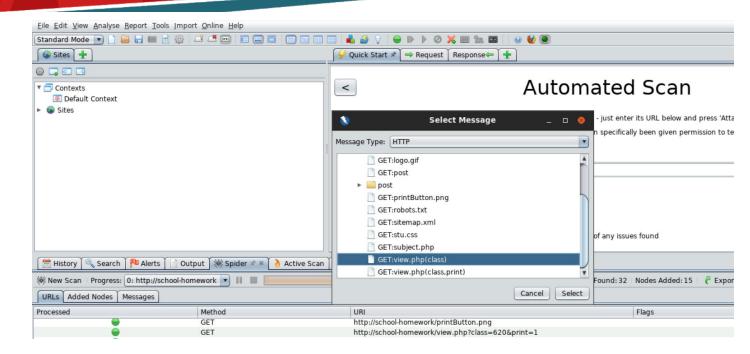
Step 4: Select Fuzz located under the Tools drop-down panel



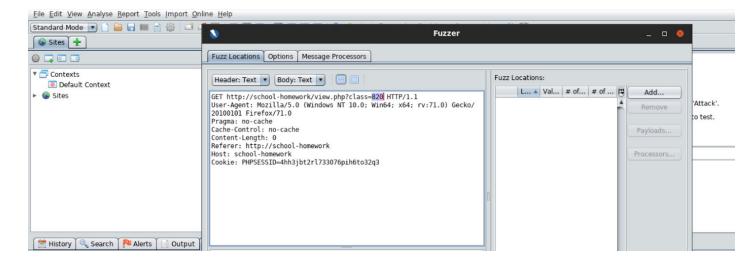
Click on the fuzz option to get the list of websites



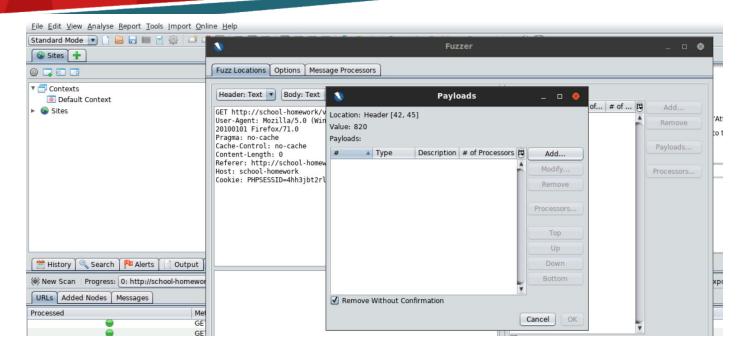
Step 5: Click on the website dropdown and scroll down to choose the view.php with class parameter in the fuzzer.



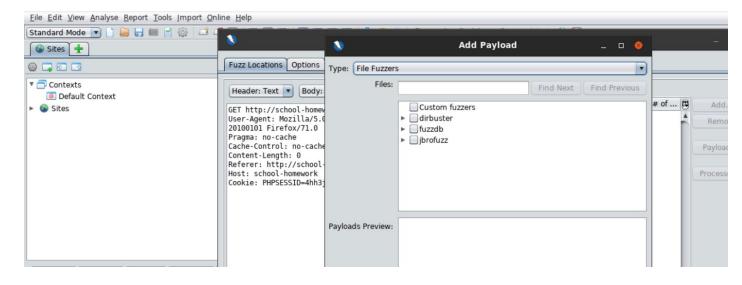
Step 6: Highlight the parameter value which needs to be fuzzed



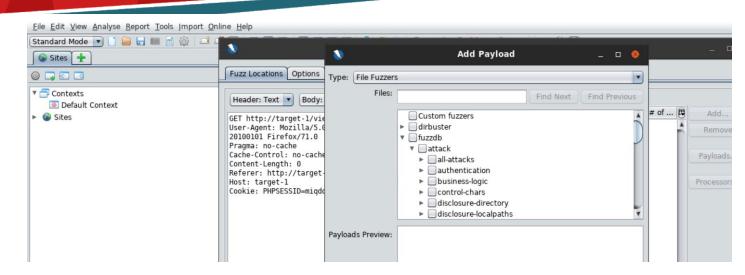
Click on the Add button.



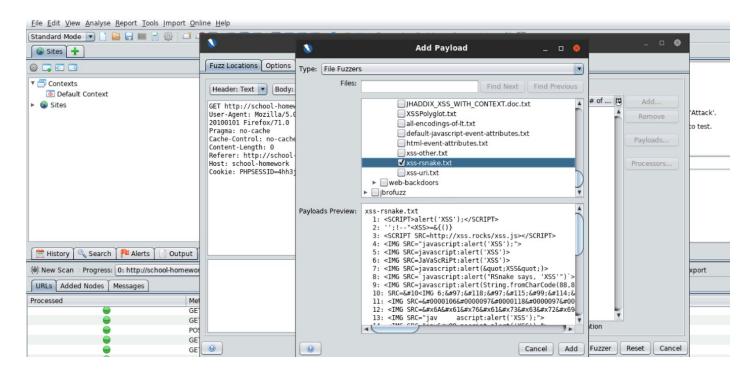
Step 7: Click on the Add button and choose File Fuzzers from Type dropdown menu.



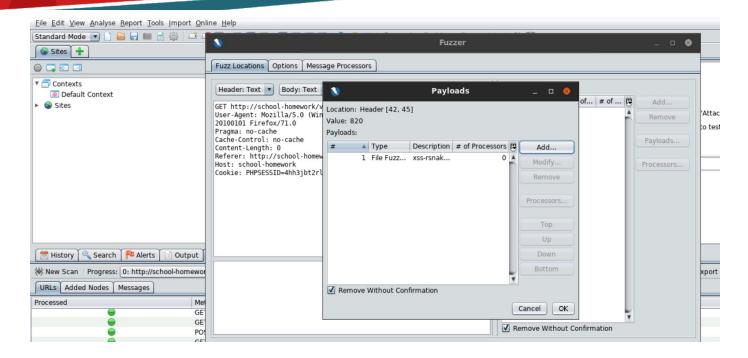
Click on Fuzzdb drop-down and select attack



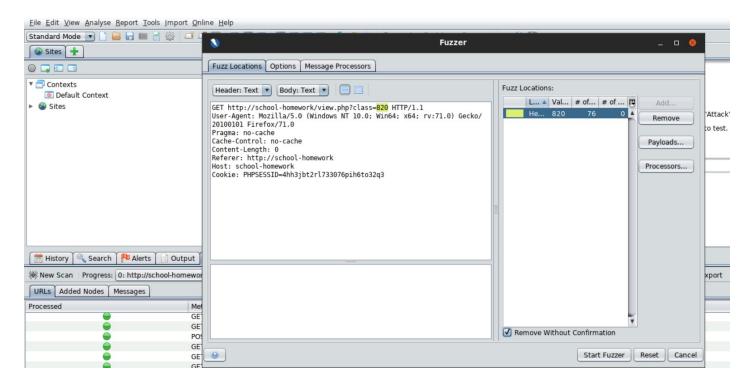
Scroll down and choose xss-rsnake.txt under XSS subsection.



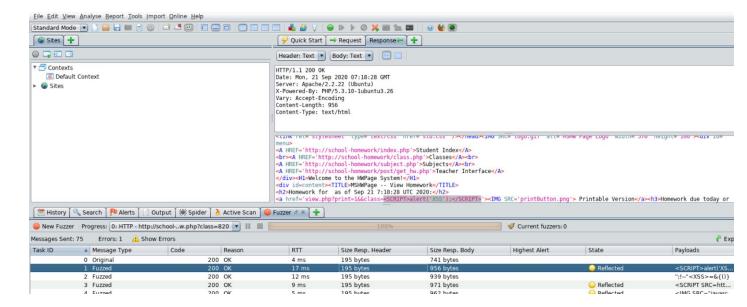
Click on the Add button.



Step 8: Click on OK button

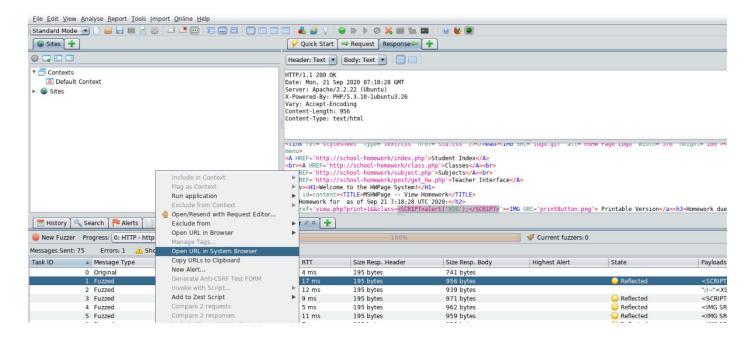


Select the "Start Fuzzer" option.

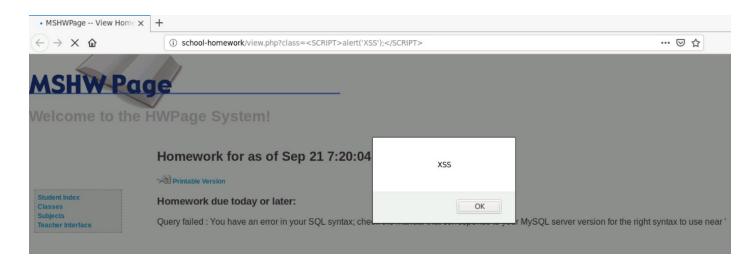


The fuzzer returned many results which also includes false positives

Step 9: Right-click on the request and choose "Open URL in system browser".



Firefox will open the website with the malicious payload taken from FuzzDb Dictionary.



In this manner, FuzzDB increases the testing capability of OWASP Zap.

Learnings

Perform dynamic code analysis with OWASP ZAP and FuzzDB dictionary.