PRACTICAL – 10

AIM: Find out Web Application Vulnerability using OWASP-ZAP tool

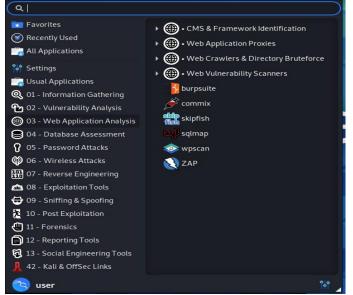
Tools:-

OWASP-ZAP

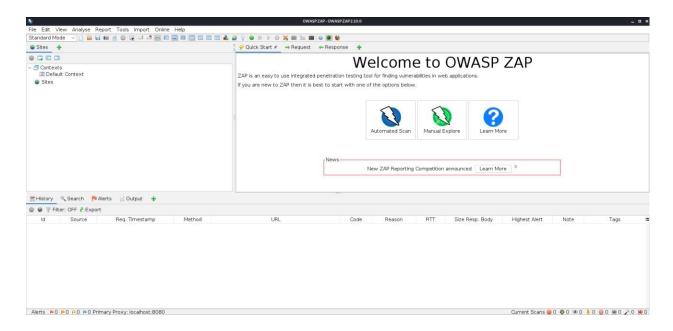
- OWASP ZAP is an open-source web application security scanner. It is intended to be used by both those new to application security as well as professional penetration testers.
- For security purposes, companies use paid tools, but OWASP ZAP is a great open-source alternative that makes Penetration Testing easier for testers.
- OWASP ZAP is an open-source web application security scanner. It is intended to be used by both those new to application security as well as professional penetration testers.
- When used as a proxy server it allows the user to manipulate all of the traffic that passes through it, including traffic using https.
- It can also run in a daemon mode which is then controlled via a REST API.
- ZAP was added to the ThoughtWorks Technology Radar in May 2015 in the Trial ring.
- ZAP was originally forked from Paros, another pentesting proxy. Simon Bennetts, the project lead, stated in 2014 that only 20% of ZAP's source code was still from Paros.
- Some of the built in features include: Intercepting proxy server, Traditional and AJAX Web crawlers, Automated scanner, Passive scanner, Forced browsing, Fuzzer, WebSocket support, Scripting languages, and Plug-n-Hack support.
- It has a plugin-based architecture and an online 'marketplace' which allows new or updated features to be added. The GUI control panel is easy to use.

Practical:

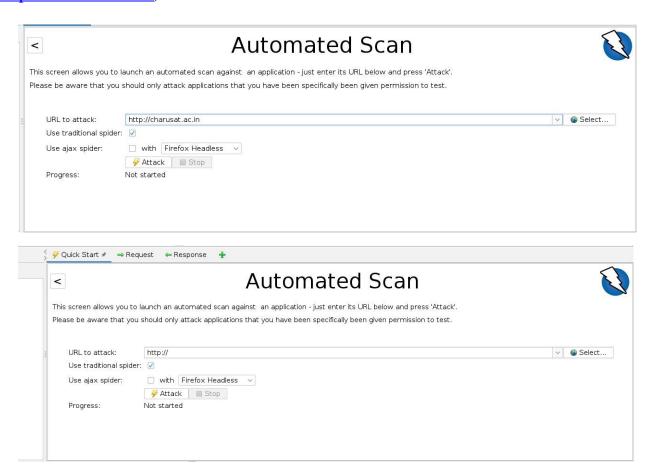
We can find ZAP in Web Application Analysis.



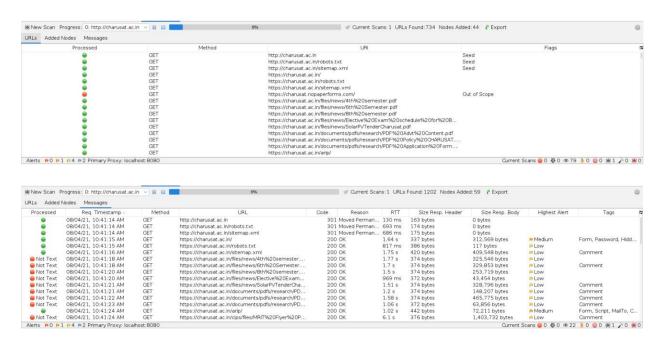
The main screen looks like this



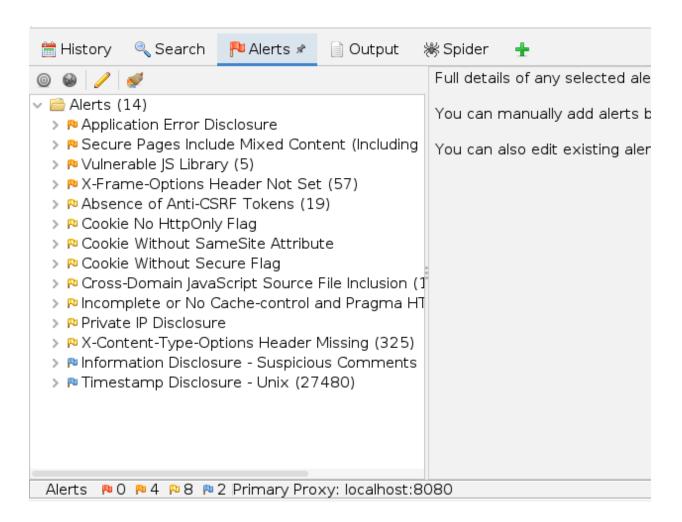
We Will go to Automated Scan and type in the website we want to attack(lets take https://charusat.ac.in)



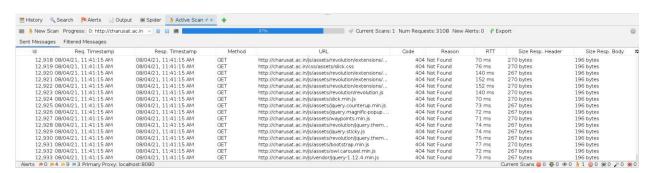
In the spider tab we will find all the pages and More information will be available in the message tab.



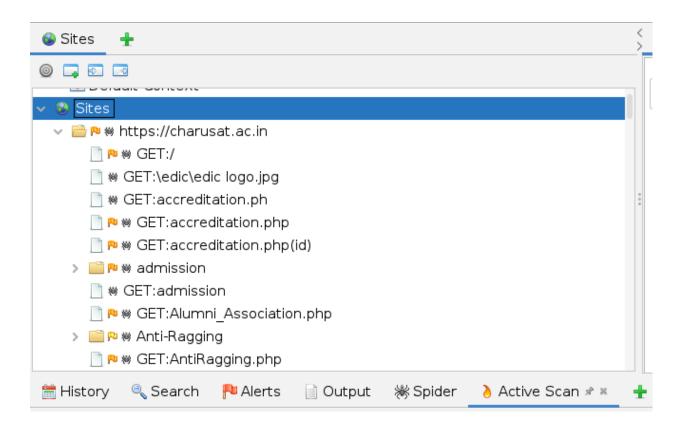
In the alert tab we will see alert with flags of different colours and we can see the summary of it in bottom section too which will show the numbers of alerts.



After spider scan is completed, active scan will begin.



We can also see the content of website of the left side.



Conclusion:

In this practical we learned about OWASP-ZAP tool and performed Web Application Vulnerability using the tool on different websites.