

Homework 9: Security Testing

Author: Syed Zain Raza

PART 1

SQL Injection Challenge:

Webgoat is server now changed so SQL string problem is at step 9 now.

Question:

What is the string that you entered into the name field to solve this challenge?

Answer:

I used the input as last_name = ' , or , '1' = '1

Question:

What is Hershey Jolly's AMEX Credit Card Number?

Answer:

Hershey Jolly's AMEX credit card number is 33300003333

SQL Injection Advanced

Question:

What is the string that you entered into the user name field to solve this challenge?

Answer:

I wrote ' ; select * from user_system_data;-- in the username field

Question:

What is the password of user name dave?

Answer:

The password of dave is passW0rD

Explain How it Works

Question:

Describe in your own words how you attacked this site to reveal internal information?

Answer:

I attacked this website using SQL injection. As the website was using SQL queries behind the scenes. I was able to utilize and this scripts which will return required values. I learned this from SQL Injection tutorials on WebGoat website.

Question:

What would you do to prevent this attack in your website?

Answer:

This type of attacks can be prevented by making SQL queries more structured and while writing these queries keep in mind the intentions of the hackers. This will help in resisting such attacks.

PART 2

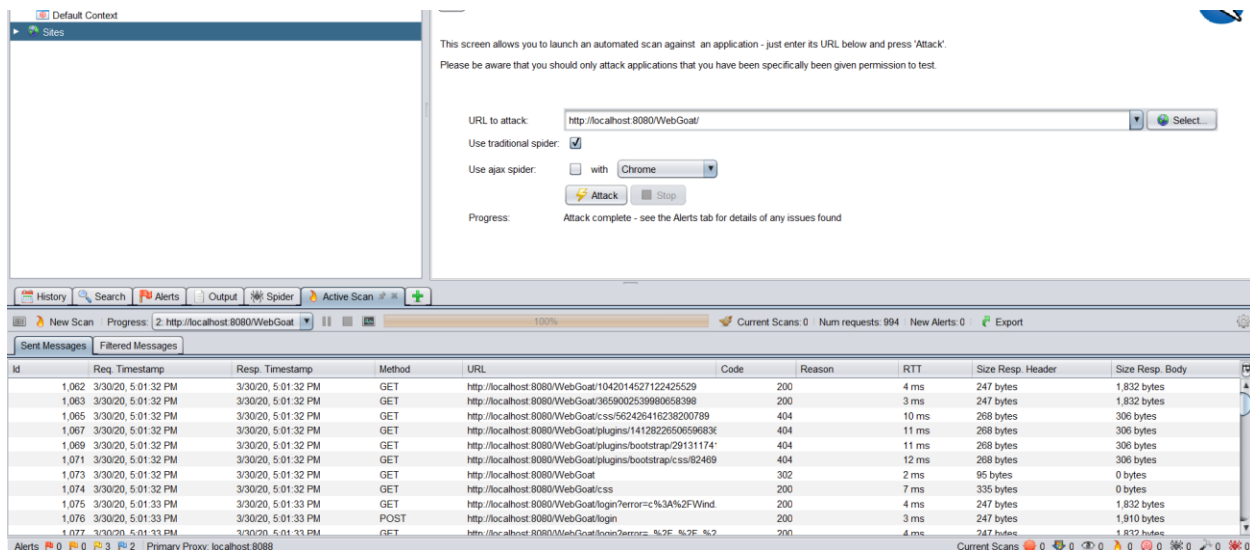
Question:

List and describe all of the high risk alerts that ZAP identifies with your local instance of WebGoat.

Answer:

Include a screen shot of ZAP window after you have completed the scan in your report.

Answer:



Reflection:

This assignment was informative as I was able to explore security testing using tools such as OWASP ZAP and OWASP Web Goat. WebGoat was helpful in learning more about SQL Injection. ZAP was used to attack WebGoat to know how many problems it has. Overall, it was a really useful experience.

Honor Pledge:

"I pledge my honor that I have abided by the Stevens Honor System."