Assignment 4-Burp suite

Q What is burp suite?

Burp Suite is a popular web vulnerability scanner and security testing tool used by cybersecurity professionals, penetration testers, and web developers to assess the security of web applications and identify potential security vulnerabilities. It is developed by PortSwigger and is widely recognized for its effectiveness in finding security issues in web applications.

Q Why burp suite?

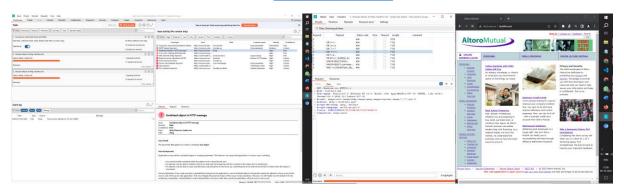
- 1. Web Application Security Testing: One of the primary reasons for using Burp Suite is to test the security of web applications. It helps identify vulnerabilities and weaknesses in web applications that could be exploited by attackers.
- 2. Vulnerability Assessment: Security professionals use Burp Suite to perform vulnerability assessments on web applications. By scanning and analyzing web traffic and the application's behavior, it can pinpoint various security issues.
- 3. Penetration Testing: Ethical hackers and penetration testers utilize Burp Suite to simulate attacks on web applications. This allows them to find and fix vulnerabilities before malicious hackers can exploit them.
- 4. Manual Testing: While automated scanning is a valuable feature, Burp Suite also supports manual testing, enabling security experts to investigate and validate potential vulnerabilities by interacting directly with the application.
- 5. Bug Bounty Hunting: Security researchers and bug bounty hunters often employ Burp Suite to discover security flaws in websites and web applications. They can then report these issues to the organizations responsible for the applications in exchange for rewards
- 6. Security Auditing: Organizations use Burp Suite for periodic security audits of their web applications to ensure that they remain protected against emerging threats.
- 7. Secure Development: Developers use Burp Suite during the development process to identify and fix security issues early, reducing the risk of vulnerabilities making it into production.

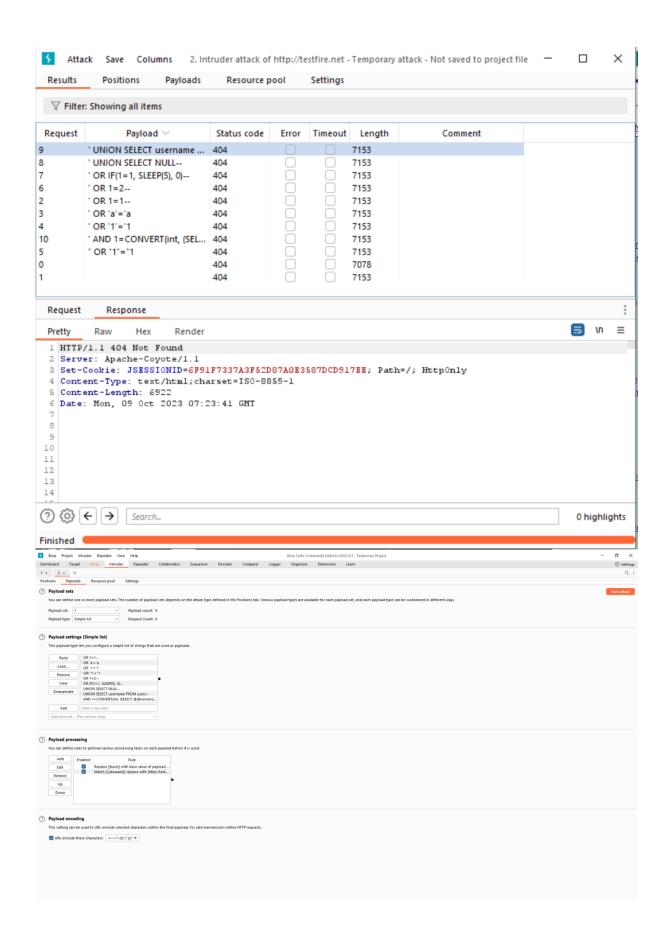
Q What are the features of burp suite?

- 1. Proxy: Burp Suite acts as a proxy server, allowing you to intercept and modify HTTP/S requests and responses between your browser and the web application. This is useful for manual testing and understanding how the application works.
- 2. Scanner: Burp's automated scanner can identify various security vulnerabilities such as SQL injection, cross-site scripting (XSS), and more. It scans the target application for known vulnerabilities and provides detailed reports.
- 3. Spider: The spider tool crawls a web application to discover and map its content, identifying all accessible pages and resources. This helps in comprehensive testing and finding hidden functionalities.

- 4. Repeater: This feature allows you to repeat requests to the application, making it easier to analyze and test different scenarios or payloads. It's useful for manual testing and verifying vulnerabilities.
- 5. Intruder: Burp's Intruder tool is used for automated attacks, such as brute force, fuzzing, and payload manipulation. It helps identify vulnerabilities that may not be apparent through manual testing alone.
- 6. Scanner Extensions: Burp Suite supports extensions and plugins that can be used to enhance its functionality. There are numerous community-developed and commercial extensions available to extend its capabilities.
- 7. Session Management: Burp allows you to manage and manipulate user sessions, including capturing and replaying session tokens, cookies, and authentication credentials.
- 8. Target Scope: You can configure Burp Suite to focus on specific parts of a web application or exclude certain areas during testing. This helps in fine-tuning the testing process.
- 9. Reporting: Burp Suite generates detailed reports summarizing the findings of your security assessments. These reports can be customized and exported in various formats for sharing with stakeholders.
- 10. Collaboration: Burp Suite offers features for team collaboration, allowing multiple testers to work on the same project and share findings and notes.

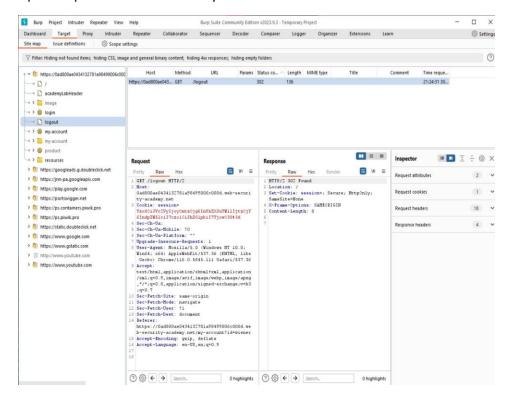
Q Test the vulnerabilities of testfire.net http://testfire.net



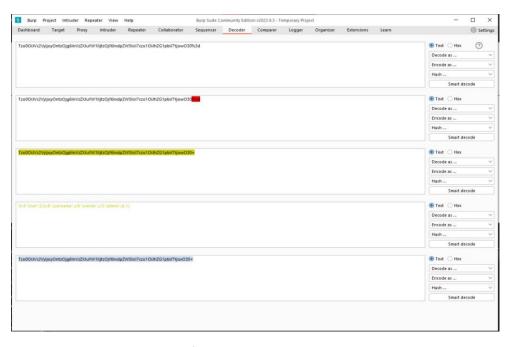


Another example of using Burp suite INSECURE DESIGN-PORTSWIGGER Access the website

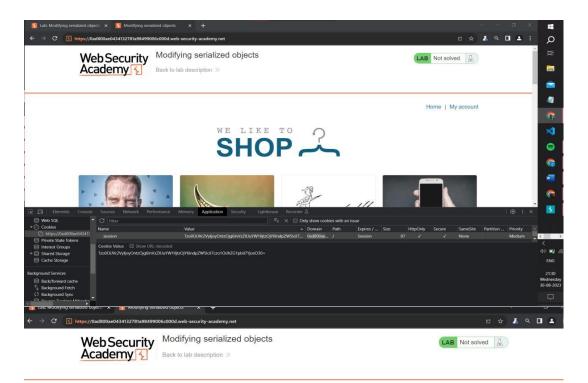
Open burp suite access cookie layer



Go to decoder change b=1 to access the admin portal

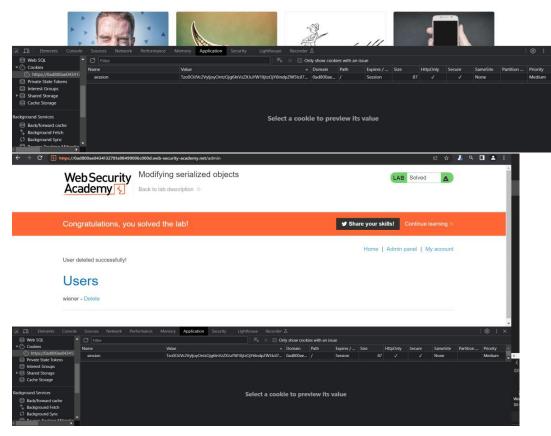


Change value in cookie layer of website



Home | Admin panel | My account





Delete user

hence website is vulnerable to insecure design