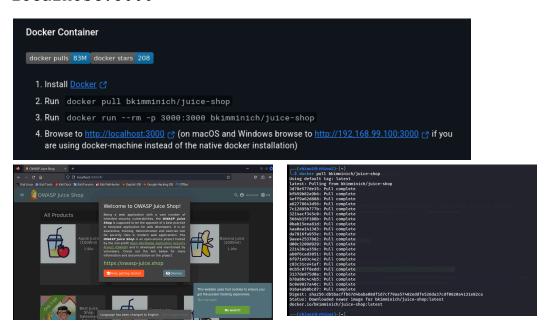
## Burp Suite Pentesting Documentation via OWASP's Vulnerable Web: Juice Shop

## **Step 1: Installation**

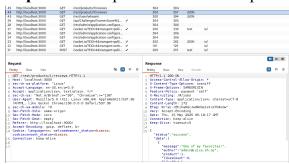
Step 1.1: Downloading Docker to Install a local copy of the OWASP's Vulnerable web



**Step 1.2:** Installing the Vulnerable Web: Juice Shop. With Burp Suite Browser Chromium opened, navigate to the search tab and Open the Vulnerable Web at localhost:3000

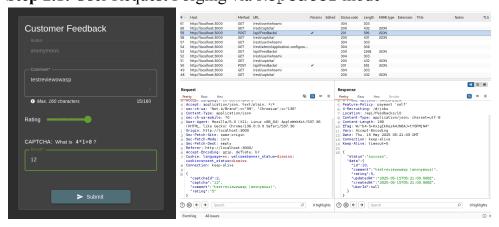


Step 1.3: Fire up Kali's default Burp Suite. Navigate to HTTP History panel



## **Step 2: Pentesting**

Step 2.1: User Request Forging via Repeater mode



In this feedback menu, we can see what we have submitted via HTTP history -> API caching -> Request & Response. In Burp suite, we can exploit this by FORGING a request using Burp Suite tool: Intercept or Repeater.



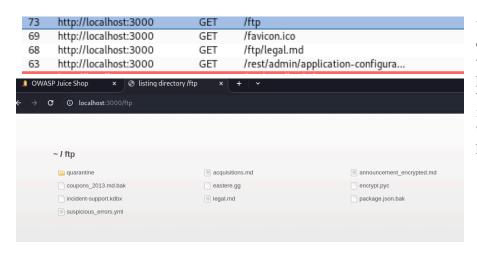
Looking at the image on the left, we can see that we have forged a feedback by sending the HTTP GET request to the repeater. Where we have manipulated the: Rating, Username, and Comment. Then sending back the response.

**Step 2.2:** Forge Request Verification



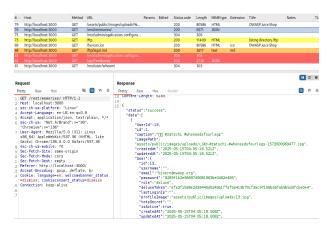
The feedback you see on the left is the forged request we have submitted. Normally, the web does not support named user feedback and more than 5 ratings. But we have successfully bypassed this via the repeater tool.

Step 2.3: Open Directory Discovery Via HTTP History Panel



We have discovered an open web FTP Directory with files stored. But this pentesting documentation will not go further into investigating this directory to uncomplicate the process.

Step 2.4: User Enumeration found in Response History

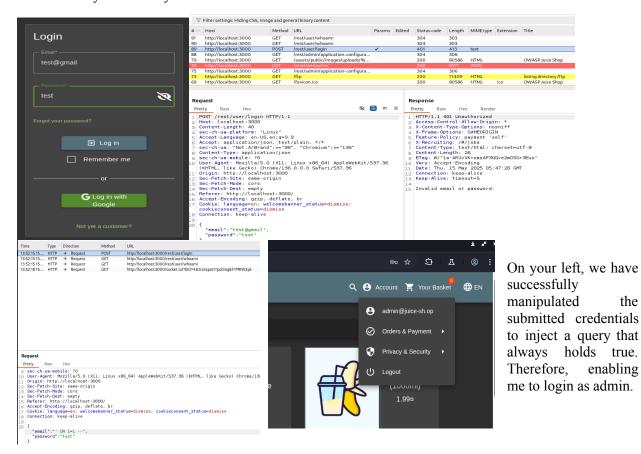


Navigating through the web application, there is a panel "Photo Frames" where users can upload their reviews.

However, the details of the pictures also revealed their user email, hashed user password and other details too. If we try to copy this hash to kali terminal with command hashid, we get options to try to decrypt the hash. This pentesting documentation will not delve further into this discovery.

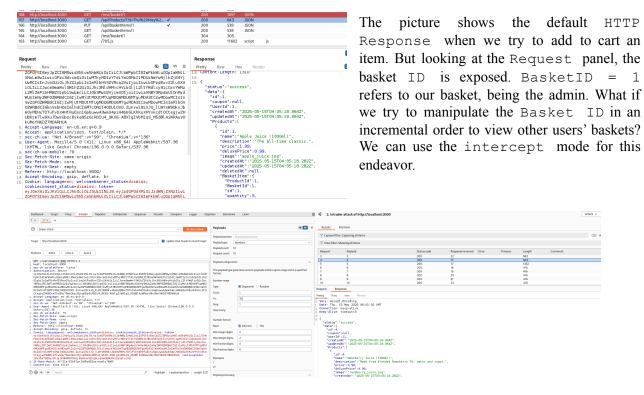
Step 2.5: SQL Injection in Login field via Intercept mode

At this point, we have tried the different guest account functionalities. But what if we try the login menu with the wrong credentials. As reflected below in the HTTP History panel, we can see that our attempt has been rejected for having the wrong credentials. In intercept mode, the tool captures the request between Chromium and the server for user manipulation before sending it to the server, enabling the user to modify them freely.



enabling

Step 2.6: User Basket Enumeration via Intruder mode



The images above showcase other users' baskets. Intercept mode automates this process.

## **Summary:**

This documentation covered the sections on installing a local copy of OWASP's vulnerable web: Juice Shop via Docker. Launching the local instance in Chromium, we were able to capture HTTP History, and API Calls and Caching. These benefited us to use the tools Repeater, Intruder, Intercept, and Decoder modes to manipulate and exploit exposed web vulnerabilities. In this documentation, the vulnerabilities encountered were: Request Forging, Open Web Directory, User Credential Enumeration, Unsanitized Backend Query, Unauthorized User Access, exposed JWT Token, and Logic Flaws

**BONUS Exploitation:** Exposed JWT token decryption via Decoder and Negative product Quantity via Intercept mode

