ATTACKDEFENSE LABS COURSES

PENTESTER ACADEMYTOOL BOX PENTESTING

JOINT WORLD-CLASS TRAINERS TRAINING HACKER

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PATY RED TEAM LABS ATTACKDEFENSE LABS

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RED TEAM

TRAINING CP TOOL BOX

PENTESTER ACADEMY TOOL BOX

TRAINING CP TOOL BOX

TRAINING CP TOOL BOX

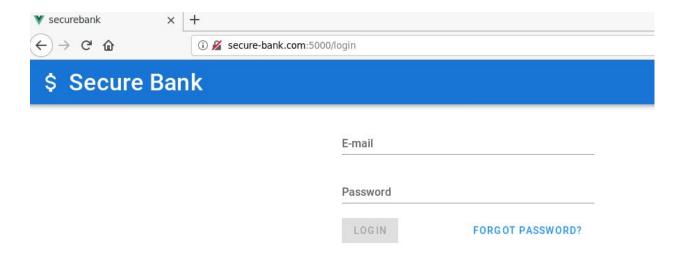
TRAINING CP TOOL BOX

Name	Improper Session Management
URL	https://attackdefense.com/challengedetails?cid=1931
Туре	Webapp Pentesting Basics

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.

Step 1: Interacting with the webapp.

When the lab starts up, the Secure Bank's webapp opens up in the browser:



Step 2: Configure Burp Suite to intercept the requests.

Select the Burp profile from Foxy Proxy plugin:

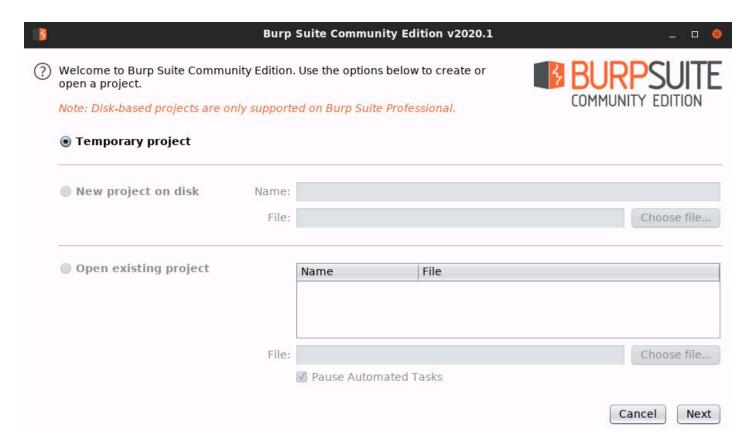


Launch Burp Suite:

Select Web Application Analysis > burpsuite

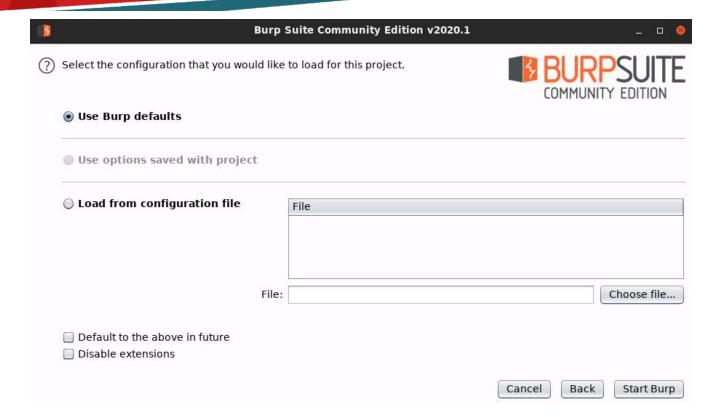


The following window will appear:

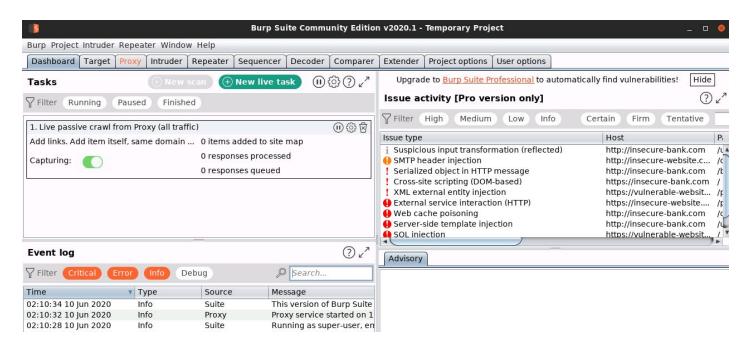


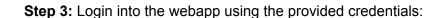
Click Next.

Finally, click Start Burp in the following window:



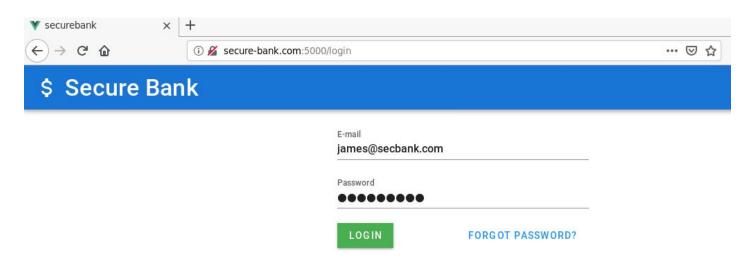
The following window will appear after BurpSuite has started:



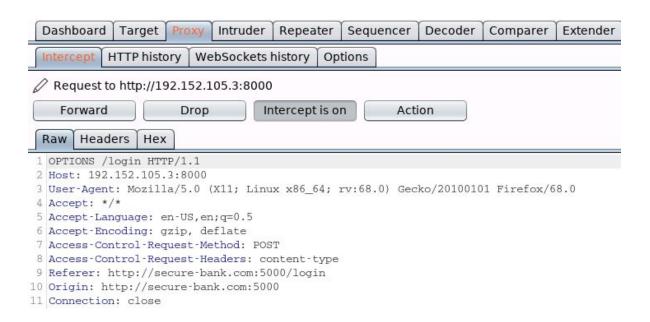


Username: james@secbank.com

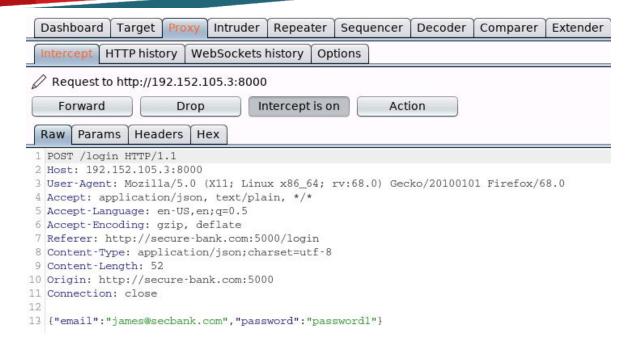
Password: password1



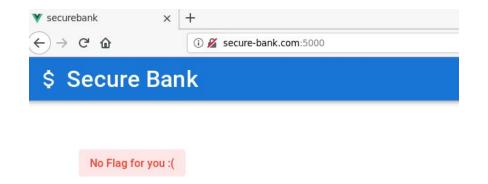
Check the intercepted request in Burp Suite.



Forward the above OPTIONS request.

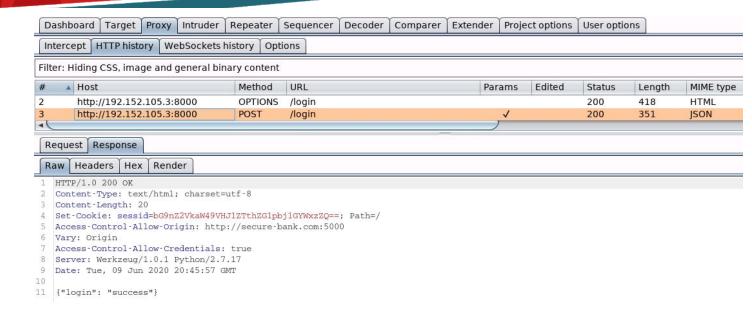


Forward the above POST request and check the web page:.



The page says "No Flag for you :(".

Notice the response in the HTTP History tab.



Notice that the response contains a "Set-Cookie" header. The cookie seems to be base64-encoded.

Cookie: bG9nZ2VkaW49VHJ1ZTthZG1pbj1GYWxzZQ==

Step 4: Decoding the above obtained cookie using base64 utility:

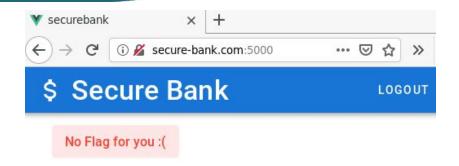
Command: echo bG9nZ2VkaW49VHJ1ZTthZG1pbj1GYWxzZQ== | base64 -d

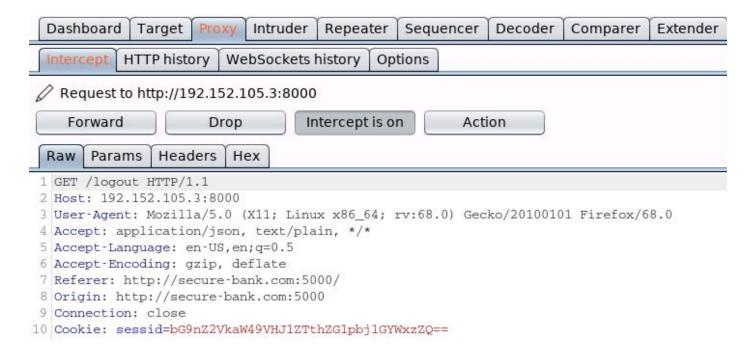
```
root@attackdefense:~# echo bG9nZ2VkaW49VHJ1ZTthZG1pbj1GYWxzZQ== | base64 -d
loggedin=True;admin=Falseroot@attackdefense:~#
root@attackdefense:~#
```

So, the cookie contains the information on whether the user is logged in as admin or not.

Step 5: Modifying the cookie to authenticate as admin.

Logout of the webapp:



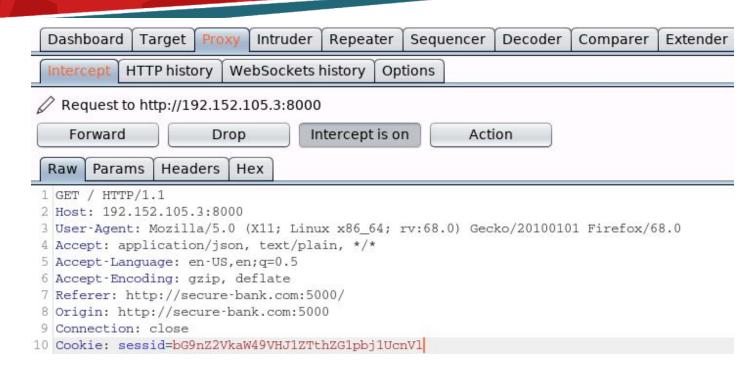


Modify the above request:

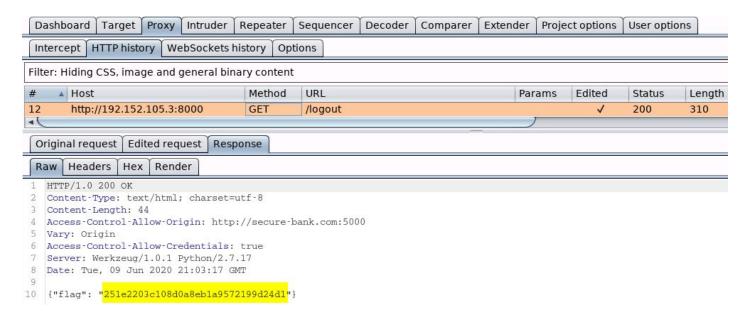
- 1. Change the request endpoint to "/"
- 2. Modify the cookie value so that the admin is set to "True".

Command: echo -n "loggedin=True;admin=True" | base64

Cookie (for admin): bG9nZ2VkaW49VHJ1ZTthZG1pbj1UcnVl



Send the above request and check the response in the HTTP History tab.



Flag: 251e2203c108d0a8eb1a9572199d24d1



References:

- 1. OWASP Top 10 (https://owasp.org/www-project-top-ten/)
- 2. A2: Broken Authentication (https://owasp.org/www-project-top-ten/OWASP_Top_Ten_2017/Top_10-2017_A2-Broken_Authentication)