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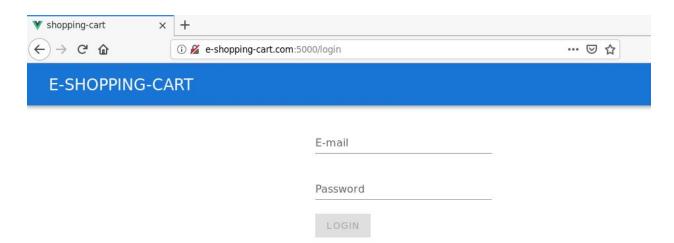
TOOL BOX

TOOL

Name	Parameter Tampering I
URL	https://attackdefense.com/challengedetails?cid=1969
Туре	REST: API Security

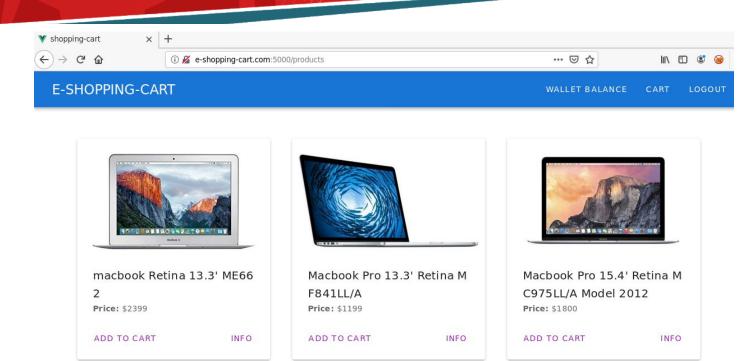
**Important Note:** This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

When the lab is launched, the Shopping WebApp opens up in Firefox.



**Step 1:** Login into the Shopping WebApp using the provided credentials.

**Email:** jake@e-shopping-cart.com **Password:** s1mpl3p@ssw0rd

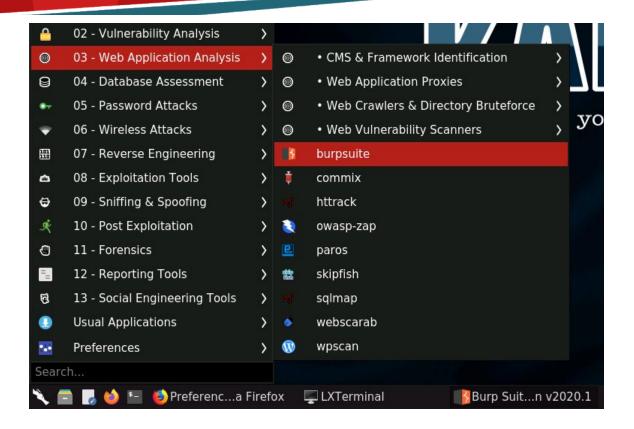


The shopping webapp sells laptops at discounted rates.

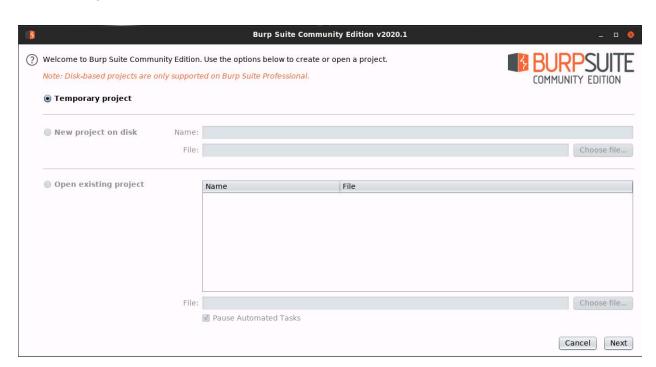
**Step 2:** Configuring the browser to use BurpSuite proxy and making BurpSuite intercept all the requests made to the API.

Launch BurpSuite.

Select Web Application Analysis > burpsuite



## The following window will appear:

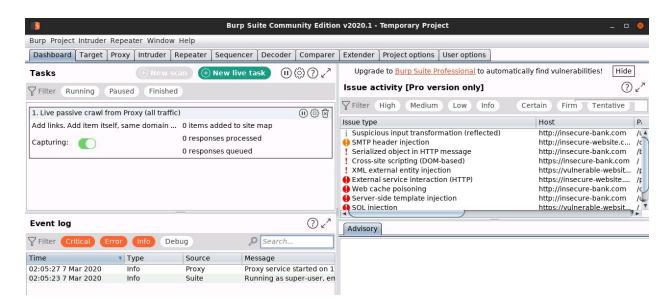


Click Next.

Finally, click Start Burp in the following window:

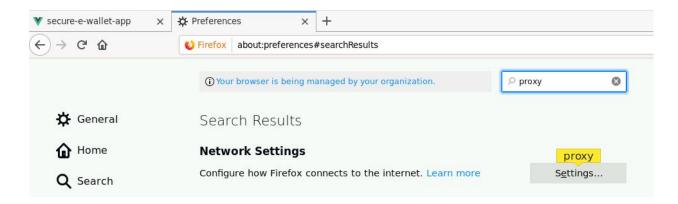


The following window will appear after BurpSuite has started:

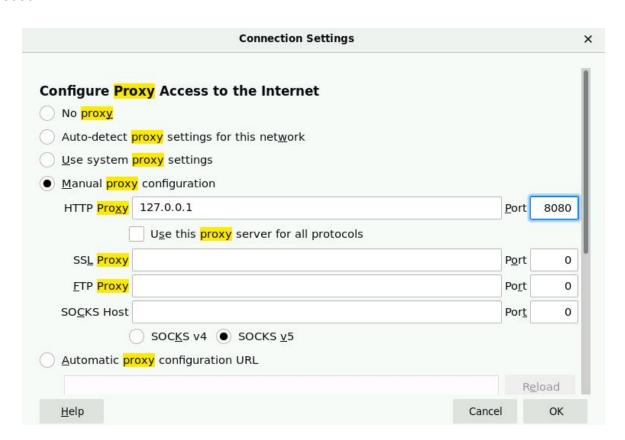


Configure the browser to use the Burp proxy listener as its HTTP Proxy server.

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.



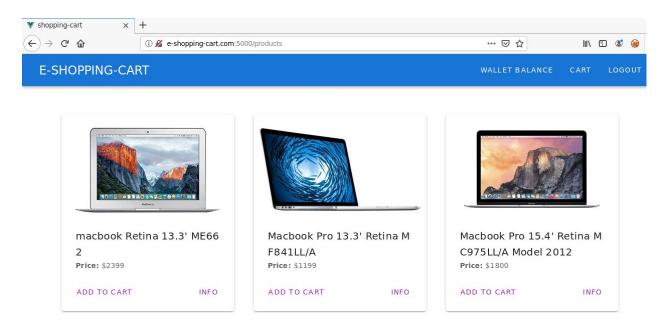
## Click OK.

Everything required to intercept the requests has been set up.

**Step 3:** Interacting with the Shopping Webapp.

Check the wallet balance. Click on the Wallet balance button on the top application bar.

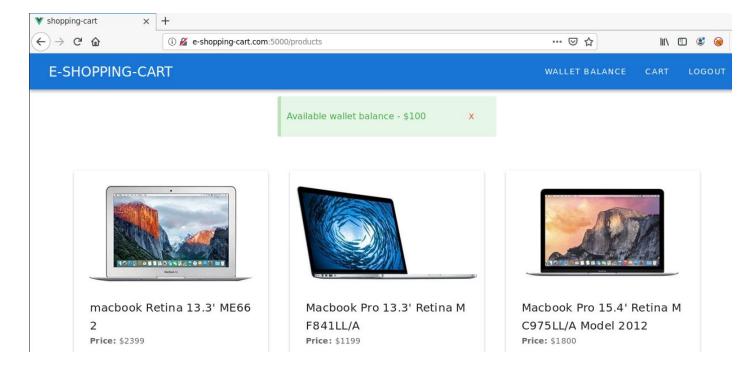
Note: Make sure that intercept is on in BurpSuite



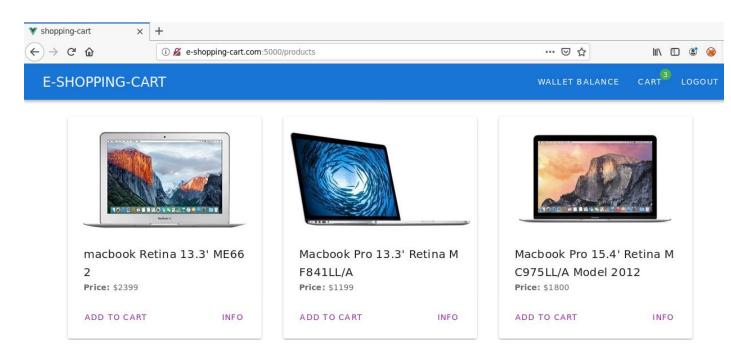
Notice the corresponding requests in BurpSuite.



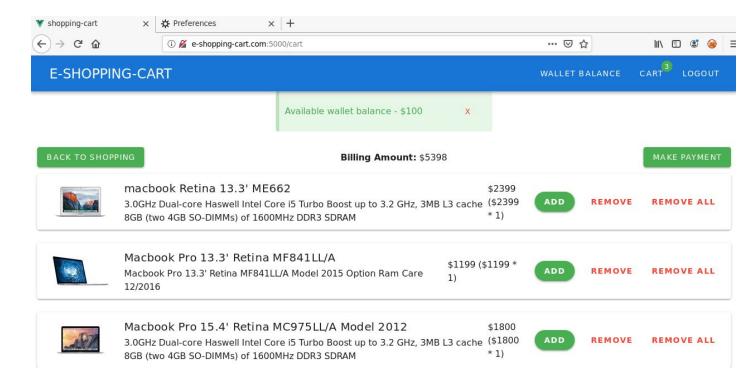
Forward the request and check the response on the web page.



## Add a few laptops to the cart.



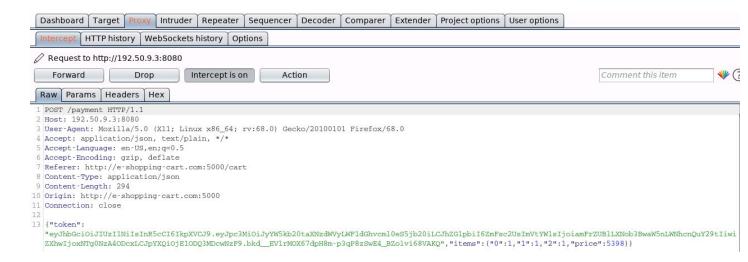
Click on the Cart button on the top application bar.



Click on the Make Payment button.

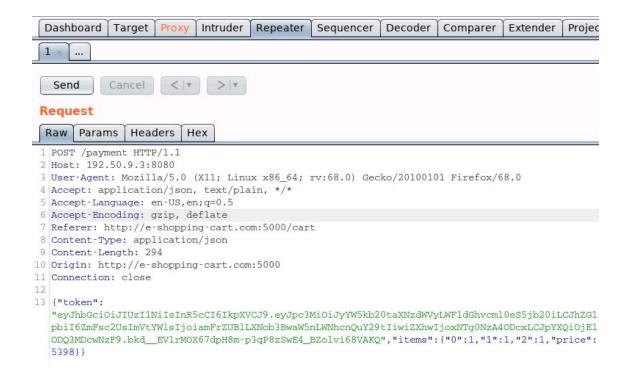






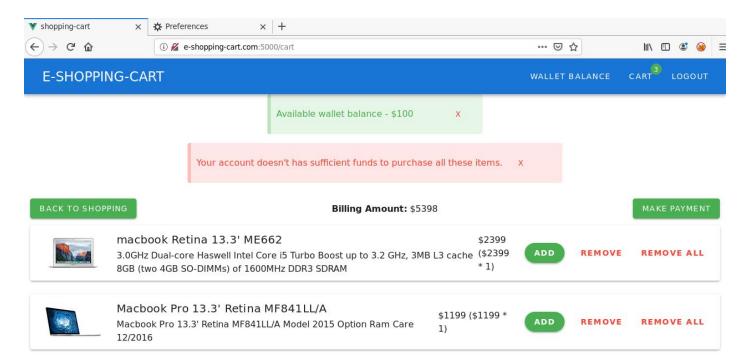
Notice that the items to be purchased along with the total price are sent to the server in the POST request.

Send the above request to Repeater for later use.



**Note:** Turn off intercept mode in BurpSuite for further requests.

After the intercept mode is turned off, check the response on the web page.



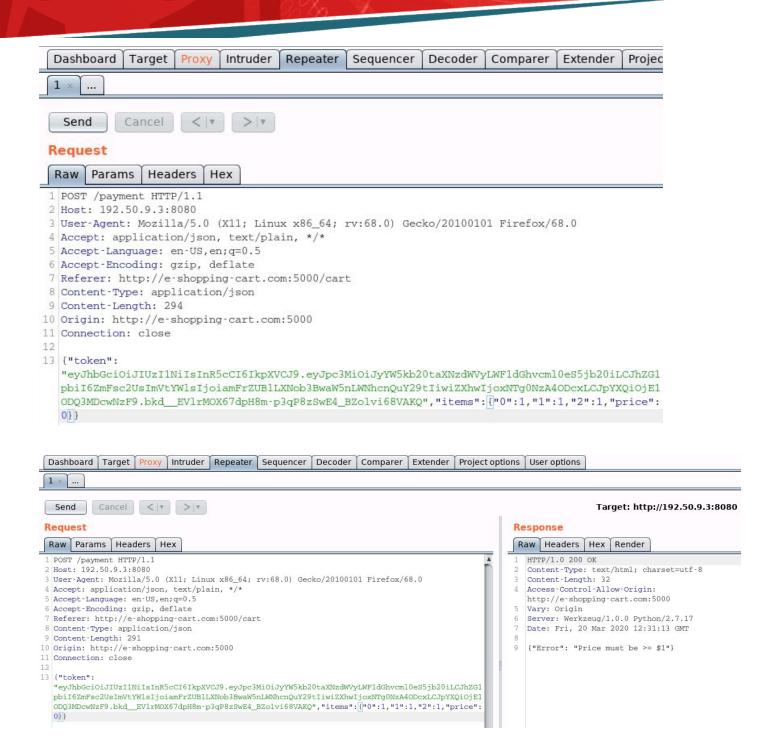
The current account had only \$100, so no product could be purchased.

Since the price of the items to be purchased was sent in the POST request from the client side, it could be modified and thus the products (laptops) could be purchased at a lower price.

**Step 4:** Leveraging the issue to purchase the laptops at a lower price.

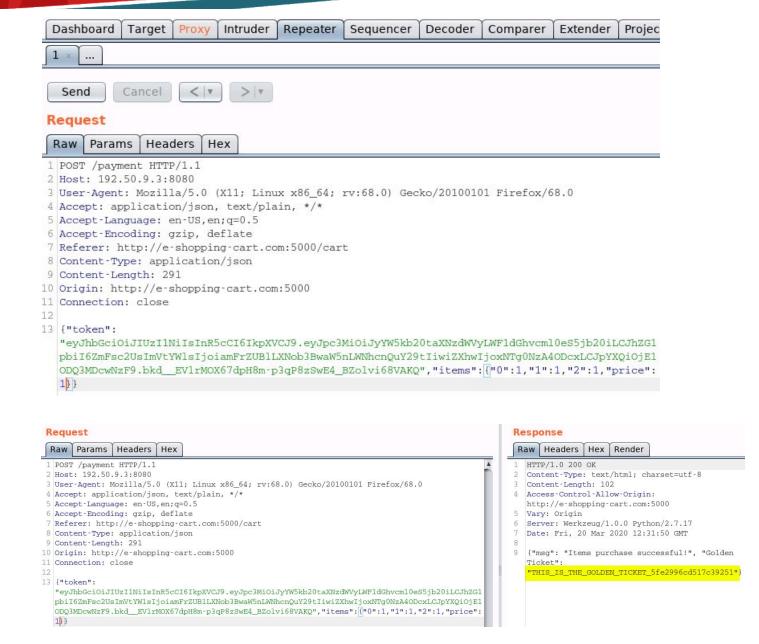
Send the request in Repeater after modifying the amount to be paid (price parameter in the POST request payload).

Set the price to 0 and send the the request:



The response reflects that the price must be at least \$1.

Set the price to 1 and send the request with the modified payload:



The response reflects that the purchase was successful. The response also contains the Golden Ticket.

Golden Ticket: THIS\_IS\_THE\_GOLDEN\_TICKET\_5fe2996cd517c39251



## References:

1. Web Parameter Tampering (<a href="https://owasp.org/www-community/attacks/Web\_Parameter\_Tampering">https://owasp.org/www-community/attacks/Web\_Parameter\_Tampering</a>)