

本课是针对前第1-20课时的msfvenom生成payload的自动补全命令补充。虽msfvenom强大，同样有着非常繁琐的参数，参数强大，意味着会增加工作效率，但它并不像MSF有命令补全功能，故本课吸取前20课经验，自动补全msfvenom的参数。

需要zsh的支持：

```
1 root@John:~# cat /etc/shells
2 # /etc/shells: valid login shells
3 /bin/sh
4 /bin/dash
5 /bin/bash
6 /bin/rbash
7 /usr/bin/screen
8 /bin/zsh
9 /usr/bin/zsh
10 /usr/bin/tmux
11 root@John:~# echo $SHELL
12 /bin/bash
```

```
root@John:~# cat /etc/shells
# /etc/shells: valid login shells
/bin/sh
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/usr/bin/tmux
root@John:~# echo $SHELL
/bin/bash
```

复制附录A到~/ .oh-my-zsh/custom/plugins/msfvenom文件夹下（注：没有msfvenom目录，创建即可）

```
1 root@John:~/ .oh-my-zsh/custom/plugins/msfvenom# pwd
2 /root/ .oh-my-zsh/custom/plugins/msfvenom
3 root@John:~/ .oh-my-zsh/custom/plugins/msfvenom# ls
4 _msfvenom
```


附录A：

```
1 #compdef msfvenom
2 #autoload
3 #
4 # zsh completion for msfvenom in Metasploit Framework Project (http://www.metasploit.com)
5 #
6 # github: https://github.com/Green-m/msfvenom-zsh-completion
7 #
8 # author: Green-m (greenm.xxoo@gmail.com)
9 #
10 # license: GNU General Public License v3.0
11 #
12 # Copyright (c) 2018, Green-m
13 # All rights reserved.
14 #
15
16 VENOM_CACHE_FILE=~/.zsh/venom-cache
17
18 venom-clear-cache() {
19   rm $VENOM_CACHE_FILE
20 }
21
22 venom-cache-payloads() {
23
24   if [ -x "$(command -v msfvenom)" ]
25   then
26     VENOM="msfvenom"
27   elif [ -n "$_comp_command1" ]
28   then
29     VENOM=$_comp_command1
30   else
31     echo "Could not find msfvenom path in system env, please run msfvenom
32     with path."
33   fi
34
35   if [[ ! -d ${VENOM_CACHE_FILE:h} ]]; then
36     mkdir -p ${VENOM_CACHE_FILE:h}
37   fi
```

```

38  if [[ ! -f $VENOM_CACHE_FILE ]]; then
39  echo -n "(...caching Metasploit Payloads...)"
40  $VENOM --list payload|grep -e "^.*/" | awk '{print $1}' >> $VENOM_CA
CHE_FILE
41  fi
42  }
43
44
45  _msfvenom() {
46
47  local curcontext="$curcontext" state line
48  typeset -A opt_args
49
50  _arguments -C \
51  '(-h --help){-h,--help}[show help]' \
52  '(-l --list){-l,--list}[List all modules for type. Types are: paylo
ads, encoders, nops, platforms, archs, encrypt, formats, all]' \
53  '(-p --payload){-p,--payload}[Payload to use (--list payloads to li
st, --list-options for arguments). Specify - or STDIN for custom]' \
54  '(--list-options)--list-options[List --payload <value> standard, adva
nced and evasion options]' \
55  '(-f --format){-f,--format}[Output format (use --list formats to li
st)]' \
56  '(-e --encoder){-e,--encoder}[The encoder to use (use --list encode
rs to list)]' \
57  '(--smallest)--smallest[Generate the smallest possible payload using
all available encoders]' \
58  '(--encrypt)--encrypt[The type of encryption or encoding to apply to
the shellcode (use --list encrypt to list)]' \
59  '(--encrypt-key)--encrypt-key[A key to be used for --encrypt]' \
60  '(--encrypt-iv)--encrypt-iv[An initialization vector for --encrypt]'
\
61  '(-a --arch){-a,--arch}[the architecture to use for --payload and -
-encoders (use --list archs to list)]' \
62  '(--platform)--platform[The platform for --payload (use --list platfo
rms to list)]' \
63  '(-o --out){-o,--out}[Save the payload to a file]' \
64  '(-b --bad-chars){-b,--bad-chars}[Characters to avoid example: "\xc0
0\xff"]' \
65  '(-n --nopsled){-n,--nopsled}[Prepend a nopsled of \[length\] size
on to the payload]' \
66  '(--encoder-space)--encoder-space[The maximum size of the encoded pay
load (defaults to the -s value)]' \

```

```

67 '(-i --iterations){-i,--iterations}'[The number of times to encode t
he payload]' \
68 '(-c --add-code){-c,--add-code}'[Specify an additional win32 shellco
de file to include]' \
69 '(-x --template){-x,--template}'[Specify a custom executable file to
use as a template]' \
70 '(-k --keep){-k,--keep}'[Preserve the --template behaviour and injec
t the payload as a new thread]' \
71 '(-v --var-name){-v,--var-name}'[Specify a custom variable name to u
se for certain output formats]' \
72 '(-t --timeout){-t,--timeout}'[The number of seconds to wait when re
ading the payload from STDIN (default 30, 0 to disable)]' \
73 '*: :(${__msfvenom_options})' && ret=0
74
75
76 lastword=${words[${#words[@]}-1]}
77
78 case "$lastword" in
79 (-p|--payload)
80 _values 'payload' ${__msfvenom_payloads}
81 ;;
82
83 (-l|--list)
84 local lists=('payloads' 'encoders' 'nops' 'platforms' 'archs' 'encrypt
t' 'formats' 'all')
85 _values 'list' $lists
86 ;;
87
88 (-encrypt)
89 local encrypts=('aes256' 'base64' 'rc4' 'xor')
90 _values 'encrypt' $encrypts
91 ;;
92
93 (-a|--arch)
94 _values 'arch' ${__msfvenom_archs}
95 ;;
96
97 (-platform)
98 _values 'platform' ${__msfvenom_platforms}
99 ;;
100
101 (-f|--format)

```

```
102  _values 'format' $(__msfvenom_formats)
103  ;;
104
105  (-e|--encoder)
106  _values 'encoder' $(__msfvenom_encoders)
107  ;;
108
109  (-o|--out|-x|--template|-c|--add-code)
110  _files
111  ;;
112
113  (*)
114
115  ;;
116
117  esac
118 }
119
120
121 __msfvenom_payloads(){
122  local msf_payloads
123
124  # we cache the list of packages (originally from the macports plugin)
125  venom-cache-payloads
126  msf_payloads=`cat $VENOM_CACHE_FILE`
127
128  for line in $msf_payloads; do
129  echo "$line"
130  done
131 }
132
133 __msfvenom_archs(){
134  local archs
135  archs=(
136  'aarch64'
137  'armbe'
138  'armle'
139  'cbea'
140  'cbea64'
141  'cmd'
```

```
142 'dalvik'
143 'firefox'
144 'java'
145 'mips'
146 'mips64'
147 'mips64le'
148 'mipsbe'
149 'mipsle'
150 'nodejs'
151 'php'
152 'ppc'
153 'ppc64'
154 'ppc64le'
155 'ppce500v2'
156 'python'
157 'r'
158 'ruby'
159 'sparc'
160 'sparc64'
161 'tty'
162 'x64'
163 'x86'
164 'x86_64'
165 'zarch'
166 )
167
168 for line in $archs; do
169 echo "$line"
170 done
171
172 }
173
174 __msfvenom_encoders(){
175 local encoders
176 encoders=(
177 'cmd/brace'
178 'cmd/echo'
179 'cmd/generic_sh'
180 'cmd/ifs'
181 'cmd/perl'
```

```
182 'cmd/powershell_base64'  
183 'cmd/printf_php_mq'  
184 'generic/eicar'  
185 'generic/none'  
186 'mipsbe/byte_xori'  
187 'mipsbe/longxor'  
188 'mipsle/byte_xori'  
189 'mipsle/longxor'  
190 'php/base64'  
191 'ppc/longxor'  
192 'ppc/longxor_tag'  
193 'ruby/base64'  
194 'sparc/longxor_tag'  
195 'x64/xor'  
196 'x64/xor_dynamic'  
197 'x64/zutto_dekiru'  
198 'x86/add_sub'  
199 'x86/alpha_mixed'  
200 'x86/alpha_upper'  
201 'x86/avoid_underscore_tolower'  
202 'x86/avoid_utf8_tolower'  
203 'x86/bloxor'  
204 'x86/bmp_polyglot'  
205 'x86/call14_dword_xor'  
206 'x86/context_cpuid'  
207 'x86/context_stat'  
208 'x86/context_time'  
209 'x86/countdown'  
210 'x86/fnstenv_mov'  
211 'x86/jmp_call_additive'  
212 'x86/nonalpha'  
213 'x86/nonupper'  
214 'x86/opt_sub'  
215 'x86/service'  
216 'x86/shikata_ga_nai'  
217 'x86/single_static_bit'  
218 'x86/unicode_mixed'  
219 'x86/unicode_upper'  
220 'x86/xor_dynamic'  
221 )
```



```
222
223  for line in $encoders; do
224  echo "$line"
225  done
226 }
227
228 __msfvenom_platforms(){
229  local platforms
230  platforms=(
231  'aix'
232  'android'
233  'apple_ios'
234  'bsd'
235  'bsdi'
236  'cisco'
237  'firefox'
238  'freebsd'
239  'hardware'
240  'hpux'
241  'irix'
242  'java'
243  'javascript'
244  'juniper'
245  'linux'
246  'mainframe'
247  'multi'
248  'netbsd'
249  'netware'
250  'nodejs'
251  'openbsd'
252  'osx'
253  'php'
254  'python'
255  'r'
256  'ruby'
257  'solaris'
258  'unix'
259  'unknown'
260  'windows'
261  )
```

```
262
263 for line in $platforms; do
264 echo "$line"
265 done
266 }
267
268 __msfvenom_formats(){
269 local formats
270 formats=(
271 'asp'
272 'aspx'
273 'aspx-exe'
274 'axis2'
275 'dll'
276 'elf'
277 'elf-so'
278 'exe'
279 'exe-only'
280 'exe-service'
281 'exe-small'
282 'hta-psh'
283 'jar'
284 'jsp'
285 'loop-vbs'
286 'macho'
287 'msi'
288 'msi-nouac'
289 'osx-app'
290 'psh'
291 'psh-cmd'
292 'psh-net'
293 'psh-reflection'
294 'vba'
295 'vba-exe'
296 'vba-psh'
297 'vbs'
298 'war'
299 'bash'
300 'c'
301 'csharp'
```

```
302 'dw'
303 'dword'
304 'hex'
305 'java'
306 'js_be'
307 'js_le'
308 'num'
309 'perl'
310 'pl'
311 'powershell'
312 'ps1'
313 'py'
314 'python'
315 'raw'
316 'rb'
317 'ruby'
318 'sh'
319 'vbapplication'
320 'vbscript'
321 )
322
323 for line in $formats; do
324 echo "$line"
325 done
326 }
327
328 # For most common options, not accurately
329 __msfvenom_options(){
330 local options
331 options=(
332 LHOST= \
333 LPORT= \
334 EXITFUNC= \
335 RHOST= \
336 StageEncoder= \
337 AutoLoadStdapi= \
338 AutoRunScript= \
339 AutoSystemInfo= \
340 AutoVerifySession= \
341 AutoVerifySessionTimeout= \
```

```
342 EnableStageEncoding= \  
343 EnableUnicodeEncoding= \  
344 HandlerSSLCert= \  
345 InitialAutoRunScript= \  
346 PayloadBindPort= \  
347 PayloadProcessCommandLine= \  
348 PayloadUUIDName= \  
349 PayloadUUIDRaw= \  
350 PayloadUUIDSeed= \  
351 PayloadUUIDTracking= \  
352 PrependMigrate= \  
353 PrependMigrateProc= \  
354 ReverseAllowProxy= \  
355 ReverseListenerBindAddress= \  
356 ReverseListenerBindPort= \  
357 ReverseListenerComm= \  
358 ReverseListenerThreaded= \  
359 SessionCommunicationTimeout= \  
360 SessionExpirationTimeout= \  
361 SessionRetryTotal= \  
362 SessionRetryWait= \  
363 StageEncoder= \  
364 StageEncoderSaveRegisters= \  
365 StageEncodingFallback= \  
366 StagerRetryCount= \  
367 StagerRetryWait= \  
368 VERBOSE= \  
369 WORKSPACE=  
370 )  
371  
372 echo $options  
373 }  
374  
375  
376 #_msfvenom "$@"
```

- Micropoor