

## 简介

Hashcat是自称世界上最快的密码恢复工具。它在2015年之前拥有专有代码库，但现在作为免费软件发布。适用于Linux，OS X和Windows的版本可以使用基于CPU或基于GPU的变体。支持hashcat的散列算法有Microsoft LM哈希，MD4，MD5，SHA系列，Unix加密格式，MySQL和Cisco PIX等。

hashcat支持多种计算核心：

GPU  
CPU  
APU  
DSP  
FPGA  
Coprocessor

### GPU的驱动要求

AMD GPUs on Linux require "RadeonOpenCompute (ROCm)" Software Platform (1.6.180 or later)  
AMD GPUs on Windows require "AMD Radeon Software Crimson Edition" (15.12 or later)  
Intel CPUs require "OpenCL Runtime for Intel Core and Intel Xeon Processors" (16.1.1 or later)  
Intel GPUs on Linux require "OpenCL 2.0 GPU Driver Package for Linux" (2.0 or later)  
Intel GPUs on Windows require "OpenCL Driver for Intel Iris and Intel HD Graphics"  
NVIDIA GPUs require "NVIDIA Driver" (367.x or later)

最新版hashcat下载地址：<https://hashcat.net/files/hashcat-5.1.0.7z>

GitHub地址：<https://github.com/hashcat/hashcat>

## 参数

下面使常见的参数，想了解更多的参数可以hashcat --help查看

```
-a 0 " " -a 1 " " -a 3 " "
-m hash MD5
-o hash,hash
--force ,hash
--show hashhash
--increment ,hashcat
--increment-min ,increment
--increment-max ,
--outfile-format id,3
--username hash,linuxhash
--remove hash
-r
```

### 攻击模式：

```
# | Mode
====
0 | Straight
1 | Combination
3 | Brute-force
6 | Hybrid Wordlist + Mask+
7 | Hybrid Mask + Wordlist+
```

### 输出格式

```
1 = hash[:salt]
2 = plain
3 = hash[:salt]:plain
4 = hex_plain
5 = hash[:salt]:hex_plain
6 = plain:hex_plain
```

```

7 = hash[:salt]:plain:hex_plain
8 = crackpos
9 = hash[:salt]:crackpos
10 = plain:crackpos
11 = hash[:salt]:plain:crackpos
12 = hex_plain:crackpos
13 = hash[:salt]:hex_plain:crackpos
14 = plain:hex_plain:crackpos
15 = hash[:salt]:plain:hex_plain:crackpos

```

## Hash id对照表

因为实在是太多了，所有我就贴一部分常见的hash类型，要想了解所有的参数可到hashcat的[Wiki](#)上去看，或者直接hashcat --help查看hash对照表

- [ Hash modes ] -

#	Name	Category
900	MD4	Raw Hash
0	MD5	Raw Hash
5100	Half MD5	Raw Hash
100	SHA1	Raw Hash
1300	SHA2-224	Raw Hash
1400	SHA2-256	Raw Hash
10800	SHA2-384	Raw Hash
1700	SHA2-512	Raw Hash
17300	SHA3-224	Raw Hash
17400	SHA3-256	Raw Hash
17500	SHA3-384	Raw Hash
17600	SHA3-512	Raw Hash
10	md5(\$pass.\$salt)	Raw Hash, Salted and/or Iterated
20	md5(\$salt.\$pass)	Raw Hash, Salted and/or Iterated
30	md5(utf16le(\$pass).\$salt)	Raw Hash, Salted and/or Iterated
40	md5(\$salt.utf16le(\$pass))	Raw Hash, Salted and/or Iterated
3800	md5(\$salt.\$pass.\$salt)	Raw Hash, Salted and/or Iterated
3710	md5(\$salt.md5(\$pass))	Raw Hash, Salted and/or Iterated
4010	md5(\$salt.md5(\$salt.\$pass))	Raw Hash, Salted and/or Iterated
4110	md5(\$salt.md5(\$pass.\$salt))	Raw Hash, Salted and/or Iterated
2600	md5(md5(\$pass))	Raw Hash, Salted and/or Iterated
3910	md5(md5(\$pass).md5(\$salt))	Raw Hash, Salted and/or Iterated
4300	md5(strtoupper(md5(\$pass)))	Raw Hash, Salted and/or Iterated
4400	md5(sha1(\$pass))	Raw Hash, Salted and/or Iterated
110	sha1(\$pass.\$salt)	Raw Hash, Salted and/or Iterated
120	sha1(\$salt.\$pass)	Raw Hash, Salted and/or Iterated
130	sha1(utf16le(\$pass).\$salt)	Raw Hash, Salted and/or Iterated
140	sha1(\$salt.utf16le(\$pass))	Raw Hash, Salted and/or Iterated
4500	sha1(sha1(\$pass))	Raw Hash, Salted and/or Iterated
4520	sha1(\$salt.sha1(\$pass))	Raw Hash, Salted and/or Iterated
4700	sha1(md5(\$pass))	Raw Hash, Salted and/or Iterated
4900	sha1(\$salt.\$pass.\$salt)	Raw Hash, Salted and/or Iterated
14400	sha1(CX)	Raw Hash, Salted and/or Iterated
1410	sha256(\$pass.\$salt)	Raw Hash, Salted and/or Iterated
1420	sha256(\$salt.\$pass)	Raw Hash, Salted and/or Iterated
1430	sha256(utf16le(\$pass).\$salt)	Raw Hash, Salted and/or Iterated
1440	sha256(\$salt.utf16le(\$pass))	Raw Hash, Salted and/or Iterated
1710	sha512(\$pass.\$salt)	Raw Hash, Salted and/or Iterated
1720	sha512(\$salt.\$pass)	Raw Hash, Salted and/or Iterated
1730	sha512(utf16le(\$pass).\$salt)	Raw Hash, Salted and/or Iterated
1740	sha512(\$salt.utf16le(\$pass))	Raw Hash, Salted and/or Iterated
14000	DES (PT = \$salt, key = \$pass)	Raw Cipher, Known-Plaintext attack
14100	3DES (PT = \$salt, key = \$pass)	Raw Cipher, Known-Plaintext attack
14900	Skip32 (PT = \$salt, key = \$pass)	Raw Cipher, Known-Plaintext attack
15400	ChaCha20	Raw Cipher, Known-Plaintext attack
2500	WPA-EAPOL-PBKDF2	Network Protocols
2501	WPA-EAPOL-PMK	Network Protocols
16800	WPA-PMKID-PBKDF2	Network Protocols
16801	WPA-PMKID-PMK	Network Protocols
7300	IPMI2 RAKP HMAC-SHA1	Network Protocols
7500	Kerberos 5 AS-REQ Pre-Auth etype 23	Network Protocols

8300	DNSSEC (NSEC3)	Network Protocols
10200	CRAM-MD5	Network Protocols
11100	PostgreSQL CRAM (MD5)	Network Protocols
11200	MySQL CRAM (SHA1)	Network Protocols
16100	TACACS+	Network Protocols
16500	JWT (JSON Web Token)	Network Protocols
121	SMF (Simple Machines Forum) > v1.1	Forums, CMS, E-Commerce, Frameworks
400	phpBB3 (MD5)	Forums, CMS, E-Commerce, Frameworks
2811	MyBB 1.2+	Forums, CMS, E-Commerce, Frameworks
2811	IPB2+ (Invision Power Board)	Forums, CMS, E-Commerce, Frameworks
8400	WBB3 (Woltlab Burning Board)	Forums, CMS, E-Commerce, Frameworks
11	Joomla < 2.5.18	Forums, CMS, E-Commerce, Frameworks
400	Joomla >= 2.5.18 (MD5)	Forums, CMS, E-Commerce, Frameworks
400	WordPress (MD5)	Forums, CMS, E-Commerce, Frameworks
2612	PHPS	Forums, CMS, E-Commerce, Frameworks
7900	Drupal7	Forums, CMS, E-Commerce, Frameworks
21	osCommerce	Forums, CMS, E-Commerce, Frameworks
21	xt:Commerce	Forums, CMS, E-Commerce, Frameworks
11000	PrestaShop	Forums, CMS, E-Commerce, Frameworks
124	Django (SHA-1)	Forums, CMS, E-Commerce, Frameworks
10000	Django (PBKDF2-SHA256)	Forums, CMS, E-Commerce, Frameworks
12	PostgreSQL	Database Server
131	MSSQL (2000)	Database Server
132	MSSQL (2005)	Database Server
1731	MSSQL (2012, 2014)	Database Server
200	MySQL323	Database Server
300	MySQL4.1/MySQL5	Database Server
3100	Oracle H: Type (Oracle 7+)	Database Server
112	Oracle S: Type (Oracle 11+)	Database Server
12300	Oracle T: Type (Oracle 12+)	Database Server
8000	Sybase ASE	Database Server
15000	FileZilla Server >= 0.9.55	FTP Server
11500	CRC32	Checksums
3000	LM	Operating Systems
1000	NTLM	Operating Systems
500	md5crypt, MD5 (Unix), Cisco-IOS \$1\$ (MD5)	Operating Systems
3200	bcrypt \$2*\$, Blowfish (Unix)	Operating Systems
7400	sha256crypt \$5\$, SHA256 (Unix)	Operating Systems
1800	sha512crypt \$6\$, SHA512 (Unix)	Operating Systems
122	macOS v10.4, MacOS v10.5, MacOS v10.6	Operating Systems
1722	macOS v10.7	Operating Systems
7100	macOS v10.8+ (PBKDF2-SHA512)	Operating Systems
11600	7-Zip	Archives
12500	RAR3-hp	Archives
13000	RAR5	Archives
13600	WinZip	Archives
9700	MS Office <= 2003 \$0/\$1, MD5 + RC4	Documents
9710	MS Office <= 2003 \$0/\$1, MD5 + RC4, collider #1	Documents
9720	MS Office <= 2003 \$0/\$1, MD5 + RC4, collider #2	Documents
9800	MS Office <= 2003 \$3/\$4, SHA1 + RC4	Documents
9810	MS Office <= 2003 \$3, SHA1 + RC4, collider #1	Documents
9820	MS Office <= 2003 \$3, SHA1 + RC4, collider #2	Documents
9400	MS Office 2007	Documents
9500	MS Office 2010	Documents
9600	MS Office 2013	Documents
10400	PDF 1.1 - 1.3 (Acrobat 2 - 4)	Documents
10410	PDF 1.1 - 1.3 (Acrobat 2 - 4), collider #1	Documents
10420	PDF 1.1 - 1.3 (Acrobat 2 - 4), collider #2	Documents
10500	PDF 1.4 - 1.6 (Acrobat 5 - 8)	Documents
10600	PDF 1.7 Level 3 (Acrobat 9)	Documents
10700	PDF 1.7 Level 8 (Acrobat 10 - 11)	Documents
99999	Plaintext	Plaintext

掩码设置

这里列一下常见的掩码字符集

l		abcdefghijklmnopqrstuvwxyz	■■■■■
u		ABCDEFGHIJKLMNOPQRSTUVWXYZ	■■■■■

```

d | 0123456789          ■■■■
h | 0123456789abcdef    ■■■■■■■■■■
H | 0123456789ABCDEF    ■■■■■■■■■■
s | !"#$%&'()*+,-./:;<=>?@[\\]^_`{|}~ ■■■■
a | ?l?u?d?s           ■■■■■■■■■■
b | 0x00 - 0xff         ■■■■■■■■■■■■■■

```

下面举几个简单的例子来了解一下掩码的设置

```

■■■■■■■■?d?d?d?d?d?d?d
■■■■■■■■?a?a?a?a?a?a?a
■■■■■■■■■■■■■■■■■■■■?u?u?u?u?d?d?d
■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■?h?h?h?h?H?H?H?H
■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■?a?a?aadmin?a?a?a
6-8■■■■■■■■--increment --increment-min 6 --increment-max 8 ?l?l?l?l?l?l?l?l
6-8■■■■■■+■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■?h?h?h?h?h?h?h?h

```

如果我们想设置字符集为：abcd123456!@-+，那该怎么做呢。这就需要用到自定义字符集这个参数了，hashcat支持用户最多定义4组字符集

```

--custom-charset1 [chars]■■■■ -1
--custom-charset2 [chars]■■■■ -2
--custom-charset3 [chars]■■■■ -3
--custom-charset4 [chars]■■■■ -4
■■■■■■?1■■?2■■?3■■?4■■■■■■

```

再来举几个例子：

```

--custom-charset1 abcd123456!@-+■■■■■■■■■■■■■■■■■■■■?1"■■■■■■■■■■■■■■■■■■■■
--custom-charset2 ?l?d■■■■■■?2■■■■■■?h
-1 ?d?l?u■■?1■■■■■■■■+■■■■■■+■■■■■■
-3 abcdef -4 123456 ■■■?3?3?3?3?4?4?4?4■■■■■■■■■■■■■■■■■■■■"abcdef"■■■■■■■■■■■■■■■■■■■■"123456"

```

## 例子

PS：我这里给一下我机子的配置，然后再对比一下破解的速度

```

CPU■■Intel(R) Core(TM) i5-7300HQ CPU @ 2.50GHz
■■■■GTX 1050 Ti

```

## 7位数字破解

```

hashcat64.exe -a 3 -m 0 --force 25c3e88f81b4853f2a8faacad4c871b6 ?d?d?d?d?d?d?d

```

选择命令提示符

Approaching final key space - workload adjusted.

25c3e88f81b4853f2a8faacad4c871b6:5612325

```
Session.....: hashcat
Status.....: Cracked
Hash.Type.....: MD5
Hash.Target.....: 25c3e88f81b4853f2a8faacad4c871b6
Time.Started.....: Mon Jan 28 21:06:27 2019 (0 secs)
Time.Estimated...: Mon Jan 28 21:06:27 2019 (0 secs)
Guess.Mask.....: ?d?d?d?d?d?d?d [7]
Guess.Queue.....: 1/1 (100.00%)
Speed.#1.....: 43476.3 kH/s (0.59ms) @ Accel:16 Loops:15 Thr:256 Vec:1
Speed.#3.....: 302.8 MH/s (0.13ms) @ Accel:64 Loops:62 Thr:1024 Vec:1
Speed.*.....: 346.3 MH/s
Recovered.....: 1/1 (100.00%) Digests, 1/1 (100.00%) Salts
Progress.....: 4906880/10000000 (49.07%)
Rejected.....: 0/4906880 (0.00%)
Restore.Point....: 0/10000 (0.00%)
Restore.Sub.#1...: Salt:0 Amplifier:120-135 Iteration:0-15
Restore.Sub.#3...: Salt:0 Amplifier:992-1000 Iteration:0-62
Candidates.#1....: 1124567 -> 9206379
Candidates.#3....: 2938682 -> 6887494
Hardware.Mon.#1..: N/A
Hardware.Mon.#3..: Temp: 34c Util: 4% Core:1771MHz Mem:3504MHz Bus:8
```

先知社区

7位小写字母破解：

```
hashcat64.exe -a 3 -m 0 --force 7a47c6db227df60a6d67245d7d8063f3 ?l?l?l?l?l?l?l
```

1-8位数字破解：

```
hashcat64.exe -a 3 -m 0 --force 4488cec2aea535179e085367d8a17d75 --increment --increment-min 1 --increment-max 8 ?d?d?d?d?d?d?d?d
```

1-8位小写字母+数字破解

```
hashcat64.exe -a 3 -m 0 --force ab65d749cba1656ca11dfalcc2383102 --increment --increment-min 1 --increment-max 8 ?h?h?h?h?h?h?h?h
```

特定字符集：123456abcdf!@+-

```
hashcat64.exe -a 3 -l 123456abcdf!@+- 8b78ba5089b11326290bc15cf0b9a07d ?l?l?l?l?l?l?l
■■■■■■■■-1?l■■■■1■■■■■■l
```

1-8为位符集:123456abcdf!@+-

```
hashcat64.exe -a 3 -l 123456abcdf!@+- 9054fa315ce16f7f0955b4af06d1aalb --increment --increment-min 1 --increment-max 8 ?l?l?l?l?l?l?l
```

1-8位数字+大小写字母+可见特殊符号

```
hashcat64.exe -a 3 -l ?d?u?l?s d37fc9ee39dd45a7717e3e3e9415f65d --increment --increment-min 1 --increment-max 8 ?l?l?l?l?l?l?l?l
■■■■
hashcat64.exe -a 3 d37fc9ee39dd45a7717e3e3e9415f65d --increment --increment-min 1 --increment-max 8 ?a?a?a?a?a?a?a
```

字典破解

```
-a 0■■■■■■■■■■-o■■■■■■■■■■
hashcat64.exe -a 0 ede900ac1424436b55dc3c9f20cb97a8 password.txt -o result.txt
```

批量破解

```
hashcat64.exe -a 0 hash.txt password.txt -o result.txt
```

Approaching final keypace - workload adjusted.

```
Session.....: hashcat
Status.....: Cracked
Hash. Type.....: MD5
Hash. Target.....: hash.txt
Time. Started.....: Mon Jan 28 21:39:00 2019 (0 secs)
Time. Estimated...: Mon Jan 28 21:39:00 2019 (0 secs)
Guess. Base.....: File (password.txt)
Guess. Queue.....: 1/1 (100.00%)
Speed. #3.....: 3100.3 kH/s (0.02ms) @ Accel:1024 Loops:1 Thr:64 Vec:1
Recovered.....: 3/3 (100.00%) Digests, 1/1 (100.00%) Salts
Progress.....: 2914/2914 (100.00%)
Rejected.....: 0/2914 (0.00%)
Restore. Point....: 0/2914 (0.00%)
Restore. Sub. #3...: Salt:0 Amplifier:0-1 Iteration:0-1
Candidates. #3....: jiangsu -> cain
Hardware. Mon. #3...: Temp: 35c Util: 6% Core:1771MHz Mem:3504MHz Bus:8

Started: Mon Jan 28 21:38:57 2019
Stopped: Mon Jan 28 21:39:01 2019
```

```
C:\Users\qiyoudesktop\hashcat-5.1.0\hashcat-5.1.0>type result.txt
ede900ac1424436b55dc3c9f20cb97a8:eseserver
341e77e8ac656743072795a1d1f07f97:qwaszx12admin
eb8b60818a253b0166887cbeb125b58d:!!@!#$%^&*()1
0eff44c362b13fa25fc88a412f5512e1:lqaz2wsx3edc
```



字典组合破解：

```
hashcat64.exe -a 1 25f9e794323b453885f5181f1b624d0b pwd1.txt pwd2.txt
```

字典+掩码破解

```
hashcat64.exe -a 6 9dc9d5ed5031367d42543763423c24ee password.txt ?l?l?l?l?l
```

MySQL4.1/5的PASSWORD函数

```
mysql> select authentication_string from mysql.user;
+-----+
| authentication_string |
+-----+
| *6BB4837EB74329105EE4568DDA7DC67ED2CA2AD9 |
| *THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE |
| *THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE |
| *226213092108E4087C5A918D37F17E894D286681 |
+-----+
4 rows in set (0.00 sec)

mysql>
```



```
hashcat64.exe -a 3 -m 300 --force 6BB4837EB74329105EE4568DDA7DC67ED2CA2AD9 ?d?d?d?d?d
```

sha512crypt \$6\$, SHA512 (Unix)破解

可以cat /etc/shadow获取

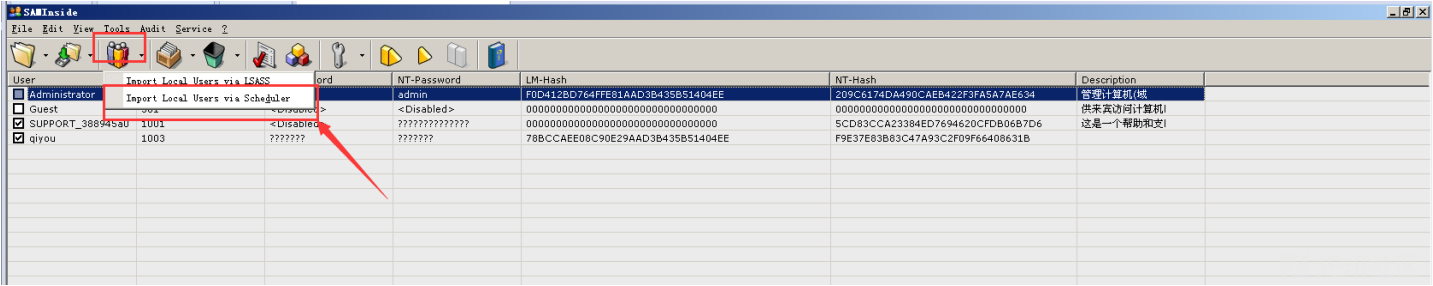
```
hashcat64.exe -a 3 -m 1800 --force $6$mxuA5cdy$XZRk0CvnPFqOgVopqiPEFAFK72SogKVwwp7gWaUOb7b6tVwfCpcSUSCEk64ktLLYmzyew/xd000hPG
```

不用整理用户名，使用--username

```
hashcat64.exe -a 3 -m 1800 --force qiyou:$6$QDq75ki3$jsKm7qTDHz/xBob0kFlLp170Cgg0i5Tslf3JW/sm9k9Q916mBTyilU3PoOsbRdxV8TAmzvdgN
```

Windows NT-hash , LM-hash破解

可以用saminside获取NT-hash,LM-hash的值



NT-hash:

```
hashcat64.exe -a 3 -m 1000 209C6174DA490CAEB422F3FA5A7AE634 ?l?l?l?l?l
```

LM-hash:

```
hashcat64.exe -a 3 -m 3000 F0D412BD764FFE81AAD3B435B51404EE ?l?l?l?l?l
```

mssql

```
hashcat64.exe -a 3 -m 132 --force 0x01008c8006c224f71f6bf0036f78d863c3c4ff53f8c3c48edafb ?l?l?l?l?l?d?d?d
```

wordpress密码hash破解

具体加密脚本在 ./wp-includes/class-phpass.php的HashPassword函数

```
hashcat64.exe -a 3 -m 400 --force $P$BYEYcHEj3vDhVllwGBv6rpxurKOEY/ ?d?d?d?d?d?d
```

discuz用户密码hash破解

其密码加密方式md5(md5(\$pass).\$salt)

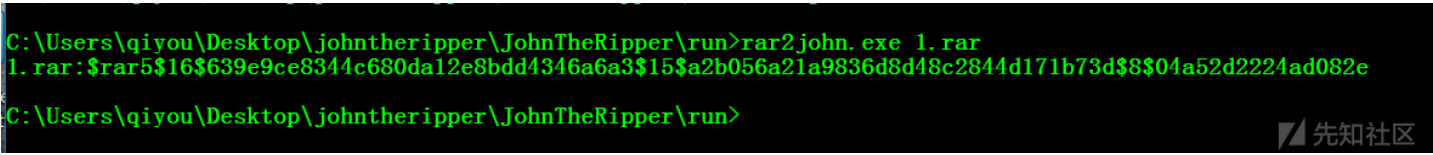
```
hashcat64.exe -a 3 -m 2611 --force 14e1b600b1fd579f47433b88e8d85291: ?d?d?d?d?d?d
```

破解RAR压缩密码

首先rar2john获取rar文件hash值[下载地址](#)

```
■■rar■■■hash■■rar2john.exe 1.rar  
■■■
```

```
1.rar:$rar5$16$639e9ce8344c680da12e8bdd4346a6a3$15$a2b056a21a9836d8d48c2844d171b73d$8$04a52d2224ad082e
```



```
hashcat64.exe -a 3 -m 13000 --force $rar5$16$639e9ce8344c680da12e8bdd4346a6a3$15$a2b056a21a9836d8d48c2844d171b73d$8$04a52d2224ad082e
```

```
$rar5$16$639e9ce8344c680da12e8bdd4346a6a3$15$a2b056a21a9836d8d48c2844d171b73d$8$04a52d2224ad082e:123456

Session.....: hashcat
Status.....: Cracked
Hash.Type.....: RAR5
Hash.Target.....: $rar5$16$639e9ce8344c680da12e8bdd4346a6a3$15$a2b056...ad082e
Time.Started.....: Tue Jan 29 16:27:22 2019 (1 min, 18 secs)
Time.Estimated...: Tue Jan 29 16:28:40 2019 (0 secs)
Guess.Mask.....: ?d?d?d?d?d [6]
Guess.Queue.....: 1/1 (100.00%)
Speed.#1.....: 606 H/s (8.24ms) @ Accel:8 Loops:4 Thr:256 Vec:1
Speed.#3.....: 7511 H/s (0.76ms) @ Accel:32 Loops:16 Thr:640 Vec:1
Speed.#*.....: 8117 H/s
Recovered.....: 1/1 (100.00%) Digests, 1/1 (100.00%) Salts
Progress.....: 576064/1000000 (57.61%)
Rejected.....: 0/576064 (0.00%)
Restore.Point....: 0/100000 (0.00%)
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:32796-32799
Restore.Sub.#3...: Salt:0 Amplifier:9-10 Iteration:32784-32799
Candidates.#1...: 123456 -> 191151
Candidates.#3...: 667537 -> 676464
Hardware.Mon.#1..: N/A
Hardware.Mon.#3..: Temp: 50c Util: 9% Core:1493MHz Mem:3504MHz Bus:8

Started: Tue Jan 29 16:26:51 2019
Stopped: Tue Jan 29 16:28:42 2019
```

注意：

hashcat ■■■ RAR3-hp ■ RAR5■■■■■■■■■■

-m■■■■■■■■■■ hash

12500 RAR3-hp \$RAR3\$\*0\*45109af8ab5f297a\*adbf6c5385d7a40373e8f77d7b89d317

13000 RAR5 \$rar5\$16\$74575567518807622265582327032280\$15\$f8b4064de34ac02ecabfe

## zip密码破解

■zip2john■■■■■■■■hash■■zip2john.exe 1.zip

■■■■1.zip:\$zip2\$\*0\*3\*0\*554bb43ff71cb0cac76326f292119dfd\*ff23\*5\*24b28885ee\*d4fe362bb1e91319ab53\*\$/zip2\$:::1.zip-1.txt

```
C:\Users\qiyou\Desktop\johntheripper\JohnTheRipper\run>zip2john.exe 1.zip
1.zip:$zip2$*0*3*0*554bb43ff71cb0cac76326f292119dfd*ff23*5*24b28885ee*d4fe362bb1e91319ab53*$/zip2$:::1.zip-1.txt
```

hashcat64.exe -a 3 -m 13600 \$zip2\$\*0\*3\*0\*554bb43ff71cb0cac76326f292119dfd\*ff23\*5\*24b28885ee\*d4fe362bb1e91319ab53\*\$/zip2\$ --for

Approaching final key space - workload adjusted.

\$zip2\$\*0\*3\*0\*554bb43ff71cb0cac76326f292119dfd\*ff23\*5\*24b28885ee\*d4fe362bb1e91319ab53\*\$/zip2\$:123456

```
Session.....: hashcat
Status.....: Cracked
Hash.Type.....: WinZip
Hash.Target.....: $zip2$*0*3*0*554bb43ff71cb0cac76326f292119dfd*ff23*.../zip2$
Time.Started.....: Tue Jan 29 16:45:07 2019 (1 sec)
Time.Estimated...: Tue Jan 29 16:45:08 2019 (0 secs)
Guess.Mask.....: ?d?d?d?d?d [6]
Guess.Queue.....: 1/1 (100.00%)
Speed.#1.....: 0 H/s (8.49ms) @ Accel:8 Loops:3 Thr:256 Vec:1
Speed.#3.....: 118.1 kH/s (2.64ms) @ Accel:32 Loops:15 Thr:1024 Vec:1
Speed.#*.....: 118.1 kH/s
Recovered.....: 1/1 (100.00%) Digests, 1/1 (100.00%) Salts
Progress.....: 51064/1000000 (5.11%)
Rejected.....: 0/51064 (0.00%)
Restore.Point....: 0/100000 (0.00%)
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:0-3
Restore.Sub.#3...: Salt:0 Amplifier:0-1 Iteration:990-999
Candidates.#1...: 104314 -> 136173
Candidates.#3...: 123456 -> 196684
Hardware.Mon.#1..: N/A
Hardware.Mon.#3..: Temp: 42c Util: 4% Core:1759MHz Mem:3504MHz Bus:8

Started: Tue Jan 29 16:44:50 2019
Stopped: Tue Jan 29 16:45:09 2019

C:\Users\qiyou\Desktop\hashcat-5.1.0\hashcat-5.1.0>
```

## 破解office密码

■■office■■hash■■python office2john.py 11.docx

■■■■11.docx:\$office\$\*2013\*100000\*256\*16\*e4a3eb62e8d3576f861f9eded75e0525\*9eeb35f0849a7800d48113440b4bbb9c\*577f8d8b2e1c5f60fed7





[illegible]

## 6.HashCat参数优化

考虑到hashcat的破解速度以及资源的分配，我们可以对一些参数进行配置

## 1.Workload tuning 负载调优。

该参数支持的值有1,8,40,80,160

```
--gpu-accel 160 ███GPU████████
```

## 2.Gpu loops 负载微调

该参数支持的值的范围是8-1024（有些算法只支持到1000）。

```
--gpu-loops 1024 ■■■GPU■■■■■■■■■
```

### 3.Segment size 字典缓存大小

该参数是设置内存缓存的大小，作用是将字典放入内存缓存以加快字典破解速度，默认为32MB，可以根据自身内存情况进行设置，当然是越大越快了。

```
--segment-size 512 ████████████████████
```

## #Reference

[Hashcat Wiki](#)

<https://klionsec.github.io/2017/04/26/use-hashcat-crack-hash/>

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### 1. 11 条回复



爱学习的松松 2019-02-15 16:17:41

做的很好，非常受用，但是我有一些问题可以问问你吗？首先，特殊字符集我没有测出来，其次就是破解wifi的手握包也不会，还有就是提取部分hash值的方式！打扰了

0 回复Ta



By七友 2019-02-16 09:21:26

[@爱学习的松松](#)

1.特殊字符集看我上面的例子应该能理解吧。2.破解wifi握手包的话，需要转化格式的，转化格式的链接我上面已经给出来了。3.提取hash我上面也给了链接了，你直接按

0 回复Ta



[爱学习的松松](#) 2019-02-16 10:59:53



这是我测试的上面特定字符集的结果，能帮我看看有什么毛病吗？

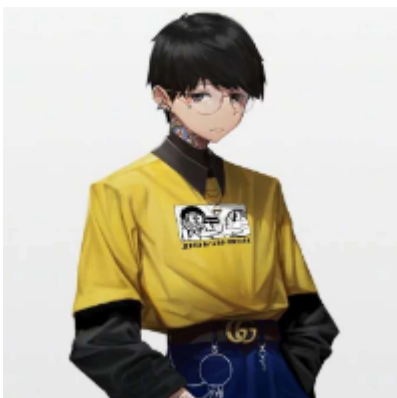
0 回复Ta



[爱学习的松松](#) 2019-02-16 11:00:51

```
[root@mu01 hashcat]# ./hashcat -a 3 -1 123456abcdef!@+- 8b78ba5089b11326290bc15cf0b9a07d ?1?1?1?1?1
-bash: !@+-: event not found
```

0 回复Ta



[By七友](#) 2019-02-16 14:21:59

[@爱学习的松松](#) 你用单引号把特殊字符集引起来吧，因为在bash中!是有特殊意义的

0 回复Ta



[hodo\\*\\*\\*\\*o2019](#) 2019-02-17 18:42:32

```
c:\1\hashcat64.exe -a 3 -m 0 --force 25c3e88f81b4853f2a8faacad4c871b6 ?d?d?d?d?d?d?d
C:\Users\Administrator>c:\1\hashcat64.exe -a 3 -m 0 --force 25c3e88f81b4853f2a8faacad4c871b6 ?d?d?d?d?d?d?d
hashcat (v5.1.0) starting...

./hashcat.hctune: No such file or directory

Started: Sun Feb 17 18:36:28 2019
Stopped: Sun Feb 17 18:36:28 2019
```

先知社区

我新下载的5.1.0版本的，命令格式应该没有错，我用以前的旧版本，都破解出来了，用这个新版本，出现./hashcat.hctune : no no such file or directory

0 回复Ta



[hodo\\*\\*\\*\\*o2019](#) 2019-02-17 18:43:22

请教一下，谢谢！难道是下载的文件出错了？我又重新到官网下载了一次。

0 回复Ta



[hodo\\*\\*\\*\\*o2019](#) 2019-02-17 18:44:13

而这个hashcat.htctune文件，明明在文件夹里面的。

0 回复Ta

---



[hodo\\*\\*\\*\\*o2019](#) 2019-02-17 20:55:35

我再去它官网下载v4.2.1版本，一样出现了这个问题。  
我再用我硬盘里面的2年前的3.2版本，却正常。  
怪事了。

0 回复Ta

---



[hodo\\*\\*\\*\\*o2019](#) 2019-02-17 21:03:11

一气之下，全部下载所有版本来试，一直试到4.0.1版本，正常了。  
我怀疑是不是后面的新版本，对我的显卡兼容性有问题。

0 回复Ta



[啦啦0咯咯](#) 2019-07-23 15:40:50

[@hodo\\*\\*\\*\\*o2019](#) 跟你一样的问题，我是把目录切到hashcat文件夹再运行命令就解决了

0 回复Ta

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