

Urlcrazy

生成和测试域名拼写错误和变体，以检测和执行拼写错误占用、网址劫持，网络钓鱼和公司间谍活动。支持以下域变体: 字符省略、字符重复、相邻字符交换、相邻字符替换、双字符 字符替换、相邻字符插入、缺失点、带破折号、单数或复数，常见的拼写错误、元音互换、同音字、位翻转(宇宙射线)、同音字、错误的顶层 域和错误的二级域。

by Andrew Horton (urbanadventurer)

<http://www.morningstarsecurity.com/research/urlcrazy>

一，帮助手册

用法:/usr/bin/URL疯狂[选项]域

选择

-k, -键盘=布局选项有:qwerty、azerty、qwertz、dvorak(默认:qwerty)

用谷歌检查域名受欢迎程度

不解析不解析域名系统

-i, -Show-无效显示无效域名

-f, -format =人类可读或CSV类型(默认:人类可读)

-o, -Output =文件输出文件

-救命-救命

-v-版本打印版本信息。这个版本是0.5

Usage: /usr/bin/urlcrazy [options] domain

Options

-k, --keyboard=LAYOUT Options are: qwerty, azerty, qwertz, dvorak (default: qwerty)

-p, --popularity Check domain popularity with Google

-r, --no-resolve Do not resolve DNS

-i, --show-invalid Show invalid domain names

-f, --format=TYPE Human readable or CSV (default: human readable)

-o, --output=FILE Output file

-h, --help This help

-v, --version Print version information. This version is 0.5

二，命令实例

urlcrazy -v

显示当前版本信息

```
#urlcrazy -v
/usr/share/urlcrazy/tld.rb:81: warning: key "2nd_level_registration" is duplicated and overwritten on line 81
/usr/share/urlcrazy/tld.rb:89: warning: key "2nd_level_registration" is duplicated and overwritten on line 89
/usr/share/urlcrazy/tld.rb:91: warning: key "2nd_level_registration" is duplicated and overwritten on line 91
URLCrazy version 0.5
by Andrew Horton (urbanadventurer)
http://www.morningstarsecurity.com/research/urlcrazy

Generate and test domain typos and variations to detect and perform typo squatting, URL hijacking,
phishing, and corporate espionage.

Supports the following domain variations:
Character omission, character repeat, adjacent character swap, adjacent character replacement, double
character replacement, adjacent character insertion, missing dot, strip dashes, singular or pluralise,
common misspellings, vowel swaps, homophones, bit flipping (cosmic rays), homoglyphs, wrong top level
domain, and wrong second level domain.

Usage: /usr/bin/urlcrazy [options] domain

Options
-k, --keyboard=LAYOUT  Options are: qwerty, azerty, qwertz, dvorak (default: qwerty)
-p, --popularity        Check domain popularity with Google
-r, --no-resolve        Do not resolve DNS
-i, --show-invalid      Show invalid domain names
-f, --format=TYPE       Human readable or CSV (default: human readable)
-o, --output=FILE       Output file
-h, --help              This help
-v, --version           Print version information. This version is 0.5
```

urlcrazy -p baidu.com

使用谷歌进行检查域名人气

```
#urlcrazy -p baidu.com
/usr/share/urlcrazy/tld.rb:81: warning: key "2nd_level_registration" is duplicated and overwritten on line 81
/usr/share/urlcrazy/tld.rb:89: warning: key "2nd_level_registration" is duplicated and overwritten on line 89
/usr/share/urlcrazy/tld.rb:91: warning: key "2nd_level_registration" is duplicated and overwritten on line 91
URLCrazy Domain Report
Domain      : baidu.com
Keyboard    : qwerty
At          : 2020-04-06 14:47:58 +0800

# Please wait. 81 hostnames to process

Typo Type      Typo      Pop  DNS-A      CC-A      DNS-MX      Extn
-----
Character Omission badu.com    47.254.33.193 CA,CANADA com
Character Omission baid.com   47.254.33.193 CA,CANADA com
Character Omission baidu.cm    58.82.229.69 CN,CHINA  cm
Character Omission baiu.com    ?          mail.100u.com com
Character Omission bidu.com    47.52.205.27 CA,CANADA com
Character Repeat baaidu.com ?          com
Character Repeat baiddu.com  64.31.6.54  US,UNITED STATES baiddu.com com
Character Repeat baiduu.com ?          com
Character Repeat baaidu.com  64.31.6.54  US,UNITED STATES baaidu.com com
Character Repeat bbaidu.com  69.16.230.42 US,UNITED STATES mail.hope-mail.com com
Character Swap abidu.com  72.52.179.174 US,UNITED STATES mx156.hostedmxserver.com com
Character Swap badiu.com  47.254.33.193 CA,CANADA com
Character Swap baiud.com  103.231.13.42 com
Character Swap biadu.com  47.254.33.193 CA,CANADA com
Character Replacement baidi.com  47.254.33.193 CA,CANADA com
Character Replacement baidy.com  61.244.70.28 HK,HONG KONG com
Character Replacement baifu.com  45.43.35.96 com
Character Replacement baису.com  15.165.96.24 US,UNITED STATES com
Character Replacement baodu.com  115.29.223.128 CN,CHINA mxw.mxhichina.com com
Character Replacement baudu.com  18.177.68.233 US,UNITED STATES mail.happyisp.com com
Character Replacement bsidu.com  47.254.33.193 CA,CANADA com
Character Replacement naidu.com  64.99.80.121 CA,CANADA com
Character Replacement vaidu.com  47.254.33.193 CA,CANADA com
Character Replacement baidfu.com  61.244.70.28 HK,HONG KONG com
Character Insertion baidu.com  61.244.70.28 HK,HONG KONG com
Character Insertion baidui.com  103.39.231.155 com
Character Insertion baiduy.com  61.244.70.28 HK,HONG KONG com
Character Insertion baiodu.com  69.12.76.67 US,UNITED STATES baiodu.com com
Character Insertion baiudu.com  46.51.238.1 IE,IRELAND com
Character Insertion basidu.com  199.59.242.153 CN,CHINA mx76.m2bp.com com
Character Insertion bnaidu.com  47.254.33.193 CA,CANADA com
Character Insertion bvaidu.com  47.254.33.193 CA,CANADA com
Missing Dot baiducom.com 72.52.179.174 US,UNITED STATES mx156.hostedmxserver.com com
Missing Dot wwwbaidu.com 47.88.46.29 CA,CANADA com
Singular or Pluralise baidus.com 91.195.240.126 DE,GERMANY mail.pickelhost.com com
Vowel Swap baadu.com 34.211.19.99 US,UNITED STATES com
Vowel Swap baedu.com 185.53.179.7 mail.h-email.net com
Vowel Swap baida.com 157.230.161.221 US,UNITED STATES com
```

urlcrazy -k azerty zsdk.org.cn

用键盘布局进行列举，共有四个选项：qwerty, azerty, qwertz, dvorak

```
[root@parrot]~# urlcrazy -k azerty zsdk.org.cn
/usr/share/urlcrazy/tld.rb:81: warning: key "2nd_level_registration" is duplicated and overwritten on line 81
/usr/share/urlcrazy/tld.rb:89: warning: key "2nd_level_registration" is duplicated and overwritten on line 89
/usr/share/urlcrazy/tld.rb:91: warning: key "2nd_level_registration" is duplicated and overwritten on line 91
URLCrazy Domain Report
Domain      : zsdk.org.cn
Keyboard    : azerty
At          : 2020-04-06 15:02:24 +0800

# Please wait. 113 hostnames to process
```

Typo	Type	Typo	DNS-A	CC-A	DNS-MX	Extn
Character Omission		zdk.org.cn	47.91.169.15	CA,CANADA		cn
Character Omission		zsd.org.cn		?		cn
Character Omission		zsdk.og.cn	170.178.178.57	US,UNITED STATES		cn
Character Omission		zsdk.or.cn		?		cn
Character Omission		zsdk.rg.cn	67.21.83.156	US,UNITED STATES		cn
Character Omission		zsdkorg.cn		?		cn
Character Omission		zsk.org.cn		?		cn
Character Repeat		zsddk.org.cn		?		cn
Character Repeat		zsdk.oorg.cn	119.8.32.76	CN,CHINA		cn
Character Repeat		zsdk.orgg.cn	47.254.33.193	CA,CANADA		cn
Character Repeat		zsdk.orr.cn		?		cn
Character Repeat		zsdkk.org.cn		?		cn
Character Repeat		zssdk.org.cn		?		cn
Character Repeat		zssdk.org.cn		?		cn
Character Swap		szdk.org.cn		?		cn
Character Swap		zdsd.org.cn		?		cn
Character Swap		zsd.korg.cn	170.178.178.40	US,UNITED STATES		cn
Character Swap		zsdk.ogr.cn		?		cn
Character Swap		zsdk.org.nc		?		nc
Character Swap		zsdk.rog.cn	46.51.238.1	IE,IRELAND		cn
Character Swap		zsdko.rg.cn	67.21.83.156	US,UNITED STATES		cn
Character Swap		zskd.org.cn		?		cn
Character Replacement		asdk.org.cn		?		cn
Character Replacement		esdk.org.cn		?		cn
Character Replacement		zddk.org.cn		?		cn
Character Replacement		zqdk.org.cn		?		cn
Character Replacement		zsdj.org.cn		?		cn
Character Replacement		zsdk.irg.cn		?		cn
Character Replacement		zsdk.oeg.cn	204.74.211.183	US,UNITED STATES		cn
Character Replacement		zsdk.orf.cn		?		cn
Character Replacement		zsdk.org.vn		?		vn
Character Replacement		zsdk.orh.cn	46.51.238.1	IE,IRELAND		cn
Character Replacement		zsdk.otg.cn	47.75.42.25	CA,CANADA		cn
Character Replacement		zsdk.prg.cn	47.75.42.25	CA,CANADA		cn
Character Replacement		zsdL.org.cn		?		cn

urlcrazy -k azerty -r zsdk.org.cn

不显示解析域名系统

```

#urlcrazy -k azerty -r zsdk.org.cn
/usr/share/urlcrazy/tld.rb:81: warning: key "2nd_level_registration" is duplicated and overwritten on line 81
/usr/share/urlcrazy/tld.rb:89: warning: key "2nd_level_registration" is duplicated and overwritten on line 89
/usr/share/urlcrazy/tld.rb:91: warning: key "2nd_level_registration" is duplicated and overwritten on line 91
URLCrazy Domain Report
Domain      : zsdk.org.cn
Keyboard    : azerty
At          : 2020-04-06 15:21:56 +0800

# Please wait. 113 hostnames to process

Typo Type      Typo      CC-A  Extn
-----
Character Omission zdk.org.cn  ?    cn
Character Omission zsd.org.cn  ?    cn
Character Omission zsdk.org.cn ?    cn
Character Omission zsdk.or.cn  ?    cn
Character Omission zsdk.rg.cn  ?    cn
Character Omission zsdkorg.cn  ?    cn
Character Omission zsk.org.cn  ?    cn
Character Repeat  zsddk.org.cn ?    cn
Character Repeat  zsdk.oorg.cn ?    cn
Character Repeat  zsdk.orgg.cn ?    cn
Character Repeat  zsdk.orgg.cn ?    cn
Character Repeat  zsdkk.org.cn ?    cn
Character Repeat  zssdk.org.cn ?    cn
Character Repeat  zzsdk.org.cn ?    cn
Character Swap    szdk.org.cn ?    cn
Character Swap    zdsk.org.cn ?    cn
Character Swap    zsd.korg.cn ?    cn
Character Swap    zsdk.ogr.cn ?    cn
Character Swap    zsdk.org.nc ?    nc
Character Swap    zsdk.rog.cn ?    cn
Character Swap    zsdko.rg.cn ?    cn
Character Swap    zskd.org.cn ?    cn
Character Replacement asdk.org.cn ?    cn
Character Replacement esdk.org.cn ?    cn
Character Replacement zddk.org.cn ?    cn
Character Replacement zqdk.org.cn ?    cn
Character Replacement zsdj.org.cn ?    cn
Character Replacement zsdk.irg.cn ?    cn
Character Replacement zsdk.oeg.cn ?    cn
Character Replacement zsdk.orf.cn ?    cn
Character Replacement zsdk.org.vn ?    vn
Character Replacement zsdk.orh.cn ?    cn
Character Replacement zsdk.otg.cn ?    cn
Character Replacement zsdk.prg.cn ?    cn
Character Replacement zsdl.org.cn ?    cn
Character Replacement zsfk.org.cn ?    cn
Character Replacement zssk.org.cn ?    cn
Character Insertion zasdk.org.cn ?    cn

```

urlcrazy -k azerty -i zsdk.org.cn

显示无效域名

```

[root@parrot]-[/home/kun]
#urlcrazy -k azerty -i zsdk.org.cn
/usr/share/urlcrazy/tld.rb:81: warning: key "2nd_level_registration" is duplicated and overwritten on line 81
/usr/share/urlcrazy/tld.rb:89: warning: key "2nd_level_registration" is duplicated and overwritten on line 89
/usr/share/urlcrazy/tld.rb:91: warning: key "2nd_level_registration" is duplicated and overwritten on line 91
URLCrazy Domain Report
Domain      : zsdk.org.cn
Keyboard    : azerty
At          : 2020-04-06 15:27:23 +0800

# Please wait. 130 hostnames to process

```

Typo	Type	Typo	Valid	DNS-A	CC-A	DNS-MX	Extn
Character Omission		zdk.org.cn	true	47.91.169.15	CA,CANADA		cn
Character Omission		zsd.org.cn	true		?		cn
Character Omission		zsdkg.org.cn	true	170.178.178.57	US,UNITED STATES		cn
Character Omission		zsdkg.or.cn	true		?		cn
Character Omission		zsdkg.org.c	false		?		
Character Omission		zsdkg.org.n	false		?		
Character Omission		zsdkg.orgcn	false		?		
Character Omission		zsdkg.rg.cn	true	67.21.83.156	US,UNITED STATES		cn
Character Omission		zsdkgorg.cn	true		?		cn
Character Omission		zsk.org.cn	true		?		cn
Character Repeat		zsddk.org.cn	true		?		cn
Character Repeat		zsdkg.org.cn	false		?		cn
Character Repeat		zsdkg.oorg.cn	true	119.8.32.76	CN,CHINA		cn
Character Repeat		zsdkg.org.cn	false		?		cn
Character Repeat		zsdkg.org.ccn	false		?		
Character Repeat		zsdkg.orgg.cn	true	47.254.33.193	CA,CANADA		cn
Character Repeat		zsdkg.orgg.cn	true		?		cn
Character Repeat		zsdkgk.org.cn	true		?		cn
Character Repeat		zsddk.org.cn	true		?		cn
Character Repeat		zsddk.org.cn	true		?		cn
Character Repeat		zsddk.org.cn	true		?		cn
Character Swap		szdk.org.cn	true		?		cn
Character Swap		zdskg.org.cn	true		?		cn
Character Swap		zsdkg.org.cn	true	170.178.178.40	US,UNITED STATES		cn
Character Swap		zsdkg.org.cn	true		?		cn
Character Swap		zsdkg.org.cn	false		?		
Character Swap		zsdkg.org.nc	true		?		nc
Character Swap		zsdkg.orgc.n	false		?		
Character Swap		zsdkg.org.cn	true	46.51.238.1	IE,IRELAND		cn
Character Swap		zsdkg.org.cn	true	67.21.83.156	US,UNITED STATES		cn
Character Swap		zskd.org.cn	true		?		cn
Character Replacement		asdk.org.cn	true		?		cn
Character Replacement		esdk.org.cn	true		?		cn
Character Replacement		zddk.org.cn	true		?		cn

urlcrazy -f CSV -k azerty zsdk.org.cn

输出为CSV格式

```

[~][root@parrot]-[/home/kun]
#urlcrazy -f CSV -k azerty zsdk.org.cn
/usr/share/urlcrazy/tld.rb:81: warning: key "2nd_level_registration" is duplicated and overwritten on line 81
/usr/share/urlcrazy/tld.rb:89: warning: key "2nd_level_registration" is duplicated and overwritten on line 89
/usr/share/urlcrazy/tld.rb:91: warning: key "2nd_level_registration" is duplicated and overwritten on line 91
Typo Type,Typo,DNS-A,CC-A,Country-A,DNS-MX,Extn
Character Omission,zdk.org.cn,47.91.169.15,CA,CANADA,,cn,
Character Omission,zsd.org.cn,,?,cn,
Character Omission,zsdk.org.cn,170.178.178.57,US,UNITED STATES,,cn,
Character Omission,zsdk.or.cn,,?,cn,
Character Omission,zsdk.rg.cn,67.21.83.156,US,UNITED STATES,,cn,
Character Omission,zsdkorg.cn,,?,cn,
Character Omission,zsk.org.cn,,?,cn,
Character Repeat,zsddk.org.cn,,?,cn,
Character Repeat,zsdk.oorg.cn,119.8.32.76,CN,CHINA,,cn,
Character Repeat,zsdk.orgg.cn,47.254.33.193,CA,CANADA,,cn,
Character Repeat,zsdk.org.cn,,?,cn,
Character Repeat,zsdkk.org.cn,,?,cn,
Character Repeat,zssdk.org.cn,,?,cn,
Character Repeat,zzsd.org.cn,,?,cn,
Character Swap,szdk.org.cn,,?,cn,
Character Swap,zdsk.org.cn,,?,cn,
Character Swap,zsd.korg.cn,170.178.178.40,US,UNITED STATES,,cn,
Character Swap,zsdk.ogr.cn,,?,cn,
Character Swap,zsd.org.nc,,?,nc,
Character Swap,zsdk.rog.cn,46.51.238.1,IE,IRELAND,,cn,
Character Swap,zsdko.rg.cn,67.21.83.156,US,UNITED STATES,,cn,
Character Swap,zskd.org.cn,,?,cn,
Character Replacement,asdk.org.cn,,?,cn,
Character Replacement,esdk.org.cn,,?,cn,
Character Replacement,zddk.org.cn,,?,cn,
Character Replacement,zqdk.org.cn,,?,cn,
Character Replacement,zsdj.org.cn,,?,cn,
Character Replacement,zsdk.irg.cn,,?,cn,
Character Replacement,zsdk.oeg.cn,204.74.211.183,US,UNITED STATES,,cn,
Character Replacement,zsdk.orf.cn,,?,cn,
Character Replacement,zsdk.org.vn,,?,vn,
Character Replacement,zsdk.orh.cn,46.51.238.1,IE,IRELAND,,cn,
Character Replacement,zsdk.otg.cn,47.75.42.25,CA,CANADA,,cn,
Character Replacement,zsdk.prg.cn,47.75.42.25,CA,CANADA,,cn,
Character Replacement,zsdl.org.cn,,?,cn,
Character Replacement,zsfk.org.cn,,?,cn,
Character Replacement,zssk.org.cn,,?,cn,
Character Insertion,zasdk.org.cn,,?,cn,
Character Insertion,zesdk.org.cn,,?,cn,
Character Insertion,zsdfk.org.cn,,?,cn,
Character Insertion,zsdk.oirg.cn,,?,cn,
Character Insertion,zsdk.oprg.cn,,?,cn,
Character Insertion,zsdk.oreg.cn,,?,cn,

```

urlcrazy -o zsdk.org.cn -k azerty zsdk.org.cn

输出文本，其输出名称为“'zsdk.org.cn'”

```

[root@parrot]~[/home/kun]
#urlcrazy -o zsdk.org.cn -k azerty zsdk.org.cn

/usr/share/urlcrazy/tld.rb:81: warning: key "2nd_level_registration" is duplicated and overwritten on line 81
/usr/share/urlcrazy/tld.rb:89: warning: key "2nd_level_registration" is duplicated and overwritten on line 89
/usr/share/urlcrazy/tld.rb:91: warning: key "2nd_level_registration" is duplicated and overwritten on line 91
URLCrazy Domain Report
Domain      : zsdk.org.cn
Keyboard    : azerty
At          : 2020-04-06 15:41:35 +0800

# Please wait. 113 hostnames to process

Typo Type      Typo      DNS-A      CC-A      DNS-MX      Extn
-----
Character Omission zdk.org.cn 47.91.169.15 ? cn
Character Omission zsd.org.cn 170.178.178.57 US,UNITED STATES ? cn
Character Omission zsdk.or.cn ? cn
Character Omission zsdk.rg.cn 67.21.83.156 US,UNITED STATES ? cn
Character Omission zsdkorg.cn ? cn
Character Omission zsk.org.cn ? cn
Character Repeat zsddk.org.cn ? cn
Character Repeat zsdk.oorg.cn 119.8.32.76 CN,CHINA ? cn
Character Repeat zsdk.orgg.cn 47.254.33.193 CA,CANADA ? cn
Character Repeat zsdk.orr.cn ? cn
Character Repeat zsdkk.org.cn ? cn
Character Repeat zssdk.org.cn ? cn
Character Repeat zzsdk.org.cn ? cn
Character Swap szdk.org.cn ? cn
Character Swap zdsk.org.cn ? cn
Character Swap zsd.korg.cn 170.178.178.40 US,UNITED STATES ? cn
Character Swap zsdk.ogr.cn ? cn
Character Swap zsdk.org.nc ? nc
Character Swap zsdk.rog.cn 46.51.238.1 IE,IRELAND ? cn
Character Swap zsdko.rg.cn 67.21.83.156 US,UNITED STATES ? cn
Character Swap zskd.org.cn ? cn
Character Replacement asdk.org.cn ? cn
Character Replacement esdk.org.cn ? cn
Character Replacement zddk.org.cn ? cn
Character Replacement zqdk.org.cn ? cn
Character Replacement zsdj.org.cn ? cn
Character Replacement zsdk.irg.cn ? cn
Character Replacement zsdk.oeg.cn 204.74.211.183 US,UNITED STATES ? cn
Character Replacement zsdk.orf.cn ? cn
Character Replacement zsdk.org.vn ? vn
Character Replacement zsdk.orh.cn 46.51.238.1 IE,IRELAND ? cn
Character Replacement zsdk.otg.cn 47.75.42.25 CA,CANADA ? cn
Character Replacement zsdk.prg.cn 47.75.42.25 CA,CANADA ? cn

```

```

[root@parrot]~[/home/kun]
#l
baidunetdisk/ Documents/ -k Pictures/ temp/ Videos/
Desktop/ Downloads/ Music/ Public/ Templates/ zsdk.org.cn

```



```

1 URLCrazy Domain Report$
2 Domain : zsdk.org.cn$
3 Keyboard : azerty$
4 At : 2020-04-06 15:41:35 +0800$
5 $
6 # Please wait. 113 hostnames to process$
7 $
8 Typo Type Typo DNS-A CC-A DNS-MX Extn++++$
9 -----
10 Character Omission zdk.org.cn 47.91.169.15 ? cn+++++$
11 Character Omission zsd.org.cn ? cn+++++$
12 Character Omission zsdk.org.cn 170.178.178.57 US,UNITED STATES cn+++++$
13 Character Omission zsdk.or.cn ? cn+++++$
14 Character Omission zsdk.rg.cn 67.21.83.156 US,UNITED STATES cn+++++$
15 Character Omission zsdkorg.cn ? cn+++++$
16 Character Omission zsk.org.cn ? cn+++++$
17 Character Repeat zsddk.org.cn ? cn+++++$
18 Character Repeat zsdk.oorg.cn 119.8.32.76 CN,CHINA cn+++++$
19 Character Repeat zsdk.orgg.cn 47.254.33.193 CA,CANADA cn+++++$
20 Character Repeat zsdk.orr.cn ? cn+++++$
21 Character Repeat zsdkk.org.cn ? cn+++++$
22 Character Repeat zssdk.org.cn ? cn+++++$
23 Character Repeat zzsdk.org.cn ? cn+++++$
24 Character Swap szdk.org.cn ? cn+++++$
25 Character Swap zdsk.org.cn ? cn+++++$
26 Character Swap zsd.korg.cn 170.178.178.40 US,UNITED STATES cn+++++$
27 Character Swap zsdk.ogr.cn ? cn+++++$
28 Character Swap zsdk.org.nc ? nc+++++$
29 Character Swap zsdk.rog.cn 46.51.238.1 IE,IRELAND cn+++++$
30 Character Swap zsdko.rg.cn 67.21.83.156 US,UNITED STATES cn+++++$
31 Character Swap zskd.org.cn ? cn+++++$
32 Character Replacement asdk.org.cn ? cn+++++$
33 Character Replacement esdk.org.cn ? cn+++++$
34 Character Replacement zddk.org.cn ? cn+++++$
35 Character Replacement zqdk.org.cn ? cn+++++$
36 Character Replacement zsdj.org.cn ? cn+++++$
37 Character Replacement zsdk.irg.cn ? cn+++++$
38 Character Replacement zsdk.oeg.cn 204.74.211.183 US,UNITED STATES cn+++++$
39 Character Replacement zsdk.orf.cn ? cn+++++$
40 Character Replacement zsdk.org.vn ? vn+++++$
41 Character Replacement zsdk.orh.cn 46.51.238.1 IE,IRELAND cn+++++$
42 Character Replacement zsdk.otg.cn 47.75.42.25 CA,CANADA cn+++++$
43 Character Replacement zsdk.prg.cn 47.75.42.25 CA,CANADA cn+++++$
44 Character Replacement zsdL.org.cn ? cn+++++$
45 Character Replacement zsfk.org.cn ? cn+++++$
46 Character Replacement zssk.org.cn ? cn+++++$
47 Character Insertion zasdk.org.cn ? cn+++++$
48 Character Insertion zesdk.org.cn ? cn+++++$
49 Character Insertion zsdfk.org.cn ? cn+++++$
50 Character Insertion zsdk.oirg.cn ? cn+++++$

```

zsdk.org.cn