Dnstracer

dnstracer确定给定的域名服务器(DNS)从何处获取信息,并跟踪DNS服务器链返回到知道数据的服务器。

一,帮助手册

DNSTRACER版本1.8.1 - (c) Edwin Groothuis - http://www.mavetju.org 使用方法:dnstracer【选项】【主机】

- -c 禁用本地缓存, 默认启用
- -C 启用负缓存,默认禁用
- -o:启用收到答案的概述, 默认禁用
- -q:用于DNS请求的查询类型,默认为A
- -r <重试>:DNS请求的重试次数,默认为3
- -s:使用此服务器作为初始请求,默认的本地主机

如果。指定,A.ROOT-SERVERS。将使用NET。

- -t <最大超时>:限制每次尝试的等待时间
 - v:详细
 - -S <ip地址>:使用此源地址。</ip地址> 不要查询IPv6服务器

DNSTRACER version 1.8.1 - (c) Edwin Groothuis - http://www.mavetju.org Usage: dnstracer [options] [host]

- -c: disable local caching, default enabled
- -C: enable negative caching, default disabled
- -o: enable overview of received answers, default disabled
- -q: query-type to use for the DNS requests, default A
- -r: amount of retries for DNS requests, default 3
- -s : use this server for the initial request, default localhost If . is specified, A.ROOT-SERVERS.NET will be used.
- -t: Limit time to wait per try
- -v: verbose
- -S: use this source address.
- -4: don't query IPv6 servers

二,命令实例

dnstracer zsdk.org.cn

追踪zsdk.org.cn, DNS服务信息

dnstracer -c zsdk.org.cn

不对此次枚举做DNS缓存[^DNS缓存]

```
#dnstracer -c zsdk.org.cn
ing to zsdk.org.cn[a] via 202.96.128.166, maximum of 3 retries
96.128.166 (202.96.128.166)
_ e.dns.cn [org.cn] (203.119.29.1) * * *
_ f.dns.cn [org.cn] (195.219.8.90) * * *
 _ cns.cernet.net [org.cn] (2001:0dd9:0000:0000:0000:0000:0000:0044) send_data/sendto:
unreachable
nd_data/sendto: Network is unreachable
nd data/sendto: Network is unreachable
  cns.cernet.net [org.cn] (2001:0da8:0001:0100:0000:0000:0000:0044) send data/sendto:
unreachable
nd_data/sendto: Network is unreachable
nd_data/sendto: Network is unreachable
   cns.cernet.net [org.cn] (103.137.60.44)
     \___ dns16.hichina.com [zsdk.org.cn] (140.205.81.26) Got authoritative answer
       ___ dns16.hichina.com [zsdk.org.cn] (140.205.41.16) Got authoritative answer
___ dns16.hichina.com [zsdk.org.cn] (106.11.141.126) Got authoritative answer
__ dns16.hichina.com [zsdk.org.cn] (140.205.81.16) Got authoritative answer
     \setminus___ dns16.hichina.com [zsdk.org.cn] (106.11.141.116) Got authoritative answer
     \___ dns16.hichina.com [zsdk.org.cn] (140.205.41.26) Got authoritative answer \___ dns16.hichina.com [zsdk.org.cn] (106.11.211.56) Got authoritative answer \__ dns16.hichina.com [zsdk.org.cn] (106.11.211.66) Got authoritative answer \__ dns16.hichina.com [zsdk.org.cn] (2400:3200:2000:0005:0000:0000:0000] send
o: Network is unreachable
nd_data/sendto: Network is unreachable
nd_data/sendto: Network is unreachable
           dns15.hichina.com [zsdk.org.cn] (106.11.141.115) Got authoritative answer dns15.hichina.com [zsdk.org.cn] (106.11.141.125) Got authoritative answer
```

dnstracer -C zsdk.org.cn

启用负缓存[^默认禁用]

dnstracer -o zsdk.org.cn

启用收到的答案概述, 默认是启用的

dnstracer -q mx baidu.com

检索baidu的mx记录[^默认为A记录]

```
[root@parrot] [/home/kun]

#dnstracer -q mx baidu.com

Tracing to baidu.com[#mx] via 202.96.128.166, maximum of 3 retries

202.96.128.166 (202.96.128.166) Got answer

|\___ ns7.baidu.com [baidu.com] (180.76.76.92) Got authoritative answer

|\__ ns3.baidu.com [baidu.com] (112.80.248.64) Got authoritative answer

|\__ dns.baidu.com [baidu.com] (202.108.22.220) Got authoritative answer

|\__ ns2.baidu.com [baidu.com] (220.181.33.31) Got authoritative answer

\__ ns4.baidu.com [baidu.com] (14.215.178.80) Got authoritative answer
```

dnstracer -r 100 zsdk.org.cn

重试的请求次数为100,默认为3,此处重次请求次数为100。

dnstracer -s 8.8.8.8 zsdk.org.cn

使用8.8.8.8DNS服务器对zsdk.org.cn进行握手[^指定DNS服务器,默认与服务器握手3次]

```
10.000000000 192.168.0.103 8.8.8.8 DNS 71 Standard query 0x2702 A zsdk.org.cn
2 0.026222589 8.8.8.8 192.168.0.103 DNS 71 Standard query response 0x2702 Server f

#dnstracer -s 8.8.8.8 zsdk.org.cn

Tracing to zsdk.org.cn[a] via 8.8.8.8, maximum of 3 retries
8.8.8.8 (8.8.8.8)
```

dnstracer -t 1 zsdk.org.cn

超过1秒则放弃与服务器进行握手[^等待值限制]

枚举zsdk.org.cn详细DNS信息

```
Number answer KK:
  Number authority RR:
 Number additional RR: 0
QUESTIONS (send)
- Queryname:
                          (4)zsdk(3)org(2)cn
  Type:
                         1 (A)
                         1 (Internet)
- Class:
DNS HEADER (recv)
- Identifier:
                         0x210F
 Flags:
                         0x8000 (R )
- Opcode:
                         0 (Standard query)
- Return code:
                         0 (No error)
- Number questions:
- Number answer RR:
- Number authority RR: 2
- Number additional RR: 0
QUESTIONS (recv)
- Queryname:
                         (4)zsdk(3)org(2)cn
                         1 (A)
  Type:
- Class:
                         1 (Internet)
AUTHORITY RR
- Domainname:
                          (4)zsdk(3)org(2)cn
                         2 (NS)
 Type:
                         1 (Internet)
 Class:
 TTL:
                         86400 (24h)
- Resource length:
                          8
- Resource data:
AUTHORITY RR
                         (5)dns16(7)hichina(3)com
- Domainname:
                          (4)zsdk(3)org(2)cn
                         2 (NS)
  Type:
 Class:
                          1 (Internet)
                         86400 (24h)
 TTL:
```

dnstracer -S 192.168.0.103 zsdk.org.cn

使用源地址对zsdk.org.cn进行枚举

```
| 13-| [root@parrot] - [/home/kun] | 10.000000000 192.168.0.103 202.06.128.166 DNS 71.St.phard query 0x482b A 2 4 4 8t.phard query response 6 20.26.128.166 [202.96.128.166] | 192.168.0.103 202.06.128.166 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 202.06.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS 434 8t.phard query response 6 202.96.128.166 [202.96.128.166] | 192.168.0.103 DNS
```

dnstracer -4 zsdk.org.cn

不枚举IPv6服务器