

# DNS反向解析和特殊域名解析

## 配置反向解析

反向解析：将IP地址解析为域名

### 1. 定义一个反向域

```
1 编辑配置文件
2  # vim /etc/named.rfc1912.zones
3  复制参数定义新的反向域，配置案例如下
4  zone "189.168.192.in-addr.arpa" IN {
5      type master;
6      file "wg.com.zone";
7  };
```

### 2. 为反向域增加区域配置文件

```
1  # cd /var/named/
2  # cp -p named.localhost wg.com.zone
3  # vim wg.com.zone
4  $TTL 1D
5  @      IN SOA  www.wg.com. rname.invalid. (
6                                     0      ; serial
7                                     1D     ; refresh
8                                     1H     ; retry
9                                     1w     ; expire
10                                    3H )    ; minimum
11      NS      www.wg.com.
12  171      PTR  www.wg.com.
13
14  重启named
15  # systemctl restart named
```

### 3.测试反向解析

```
1  # vim /etc/resolv.conf
2  nameserver 192.168.189.171
3  # nslookup 192.168.189.171
4  171.189.168.192.in-addr.arpa    name = www.wg.com. # 有域名结果，说明你配置成功
```

## 泛域名解析

```
1 $TTL 1D
2 @      IN SOA  www.wg.com. rname.invalid. (
3                                     0      ; serial
4                                     1D     ; refresh
5                                     1H     ; retry
6                                     1w     ; expire
7                                     3H )   ; minimum
8      NS      www.wg.com.
9 www    A      192.168.189.171
10 171    PTR    www.wg.com.
11 *     A      192.168.189.181
12
```

## 直接域名解析

```
1 $TTL 1D
2 @      IN SOA  www.wg.com. rname.invalid. (
3                                     0      ; serial
4                                     1D     ; refresh
5                                     1H     ; retry
6                                     1w     ; expire
7                                     3H )   ; minimum
8      NS      www.wg.com.
9 www    A      192.168.189.171
10 171    PTR    www.wg.com.
11 wg.com. A      192.168.189.191 # 直接域名解析
12
```

## DNS的负载均衡

```
1 $TTL 1D
2 @      IN SOA  www.wg.com. rname.invalid. (
3                                     0      ; serial
4                                     1D     ; refresh
5                                     1H     ; retry
6                                     1w     ; expire
7                                     3H )   ; minimum
8      NS      www.wg.com.
9 www    A      192.168.189.171
10 www    A      192.168.189.172 # DNS的负载均衡配置
11
```