Dnsmasq 部署 DNS 服务(CentOS)

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软件部署

安装dnsmasq

```
$ yum install dnsmasq
```

检查端口占用

```
# 查看53端口是否被占用
$ netstat -tunlp | grep 53
```

自定义配置dnsmasq配置

```
$ vi /etc/dnsmasq.d/address.conf

# 指定dnsmasq默认查询的上游服务器
server=114.114.114

# 把test.dns.com解析到特定的IP(下面是举例的测试域名和IP)
address=/test.commander.com/119.27.188.153
address=/test.qy.form.com/119.27.188.153
address=/test.wx.form.com/119.27.188.153
```

保存退出、确保本机53端口可对外访问

启动dnsmasq

```
$ service dnsmasq start
```

检查状态

```
$ netstat -tlunp | grep 53
```

如下图所示,开启成功。

```
[root@VM_16_12_centos ~]# netstat -tlunp | grep 53
    0 0 0.0.0.0:53
0 0 :::53
tcp
                                          0.0.0.0:*
                                                                 LISTEN
                                                                             24293/dnsmasq
                                                                             24293/dnsmasq
tcp6
                                          :::*
                                                                 LISTEN
         0 0 0.0.0.0:53
0 0 :::53
                                          0.0.0.0:*
                                                                             24293/dnsmasq
udp
udp6
                                                                             24293/dnsmasq
```

修改docker-compose文件

在docker-compose文件中找到所有设置dns的services,添加dns服务器的IP(119.27.188.153为举例dns服务器IP),*自定义的dns域名服务要放在第一位,否则可能无法解析*,没有设置dns的services不用管。docker-compose文件有2个,在aistreamserver和formserver目录下。

```
zookeeper:
image: wurstmeister/zookeeper:latest
restart: always
container_name: aistream_zookeeper
dns:
- 119.27.188.153
- 114.114.114.114
```

重新生成docker容器服务

```
# 进入对应的docker-compose目录下,执行下面命令(aistreamserver和formserver目录都要执行)
$ sudo docker-compose up -d
```

Centos开放端口

开放dns服务器访问端口(53)、网站服务端口(80、443)、grpc服务端口(12345)

```
firewall-cmd --zone=public --add-port=53/tcp --permanent
firewall-cmd --zone=public --add-port=53/udp --permanent
firewall-cmd --zone=public --add-port=80/tcp --permanent
firewall-cmd --zone=public --add-port=80/udp --permanent
firewall-cmd --zone=public --add-port=443/tcp --permanent
firewall-cmd --zone=public --add-port=443/udp --permanent
firewall-cmd --zone=public --add-port=12345/tcp --permanent
firewall-cmd --zone=public --add-port=12345/udp --permanent
firewall-cmd --zone=public --add-port=12345/udp --permanent
firewall-cmd --reload
```

```
kill -9 30030
service dnsmasq start
service dnsmasq status
```

重启后操作

检查dns服务器

```
# 检查53端口情况
netstat -tunlp | grep 53
```

如图,表示被占用端口:

```
    [root@localhost ~]# netstat -tunpl | grep 53

    tcp 0 0 192.168.122.1 53 0.0.0.0:* LISTEN 9889/dnsmasq

    udp 0 0 0.0.0.0:5353 0.0.0.0:* 8695/avahi-daemon:

    udp 0 0 192.168.122.1:53 0.0.0.0:* 9889/dnsmasq
```

```
# 杀掉进程
kill -9 9889

# 开启dns服务
service dnsmasq start
# 查看服务状态, (如下图表示成功)
service dnsmasq status
```

```
# 查看端口情况
netstat -tunlp | grep 53
```

如图表示成功:

```
      [root@localhost ~]# netstat -tunlp | grep 53

      tcp 0 0 0.0.0.0:53
      0.0.0.0:*
      LISTEN 27220/dnsmasq

      tcp6 0 0 :::53
      :::*
      LISTEN 27220/dnsmasq

      udp 0 0 0.0.0:5353
      0.0.0.0:*
      8695/avahi-daemon:

      udp 0 0 0.0.0:53
      0.0.0.0:*
      27220/dnsmasq

      udp6 0 0 :::53
      :::*
      27220/dnsmasq
```

检查IP是否改变

```
# 检查本机网卡
ifconfig ens33
```

```
[root@localhost ~]# ifconfig ens33
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.2.6 netmask 255.255.255.0 broadcast 192.168.2.255
inet6 fe80::5bf3:17cc:c977:9e85 prefixlen 64 scopeid 0x20<link>
ether 00:0c:29:e8:e7:f9 txqueuelen 1000 (Ethernet)
RX packets 142 bytes 20188 (19.7 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 101 bytes 11287 (11.0 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

ip改变则修改相应的文

件, /etc/dnsmasq.d/address.conf, /etc/resolv.conf, /data1/aistreamserver/docker-compose.yml, /data1/formserver/docker-compose.yml, 修改相应的ip

修改成功后,

```
# 重启dns服务
service dnsmasq restart

# 进入/data1/aistreamserver
docker-compose up -d

# 进入/data1/formserver
docker-compose up -d
```

启动nginx服务

```
# 检查配置文件,找到配置文件路径
nginx -t

[root@localhost ~]# nginx -t
nginx: the configuration file /datal/server/nginx-1.15.4//conf/nginx.conf syntax is ok
nginx: configuration file /datal/server/nginx-1.15.4//conf/nginx.conf test is successful

# 执行配置文件
nginx -c /datal/server/nginx-1.15.4//conf/nginx.conf
```

如出现如图所示情况,先杀掉nginx进程

```
[root@localhost ~]# nginx -t
nginx: the configuration file /datal/server/nginx-1.15.4//conf/nginx.conf syntax is ok
nginx: configuration file /datal/server/nginx-1.15.4//conf/nginx.conf test is successful
[root@localhost ~]# nginx -c /datal/server/nginx-1.15.4//conf/nginx.conf
[root@localhost ~]# nginx -c /datal/server/nginx-1.15.4//conf/nginx.conf
nginx: [emerg] bind() to 0.0.0.80 failed (98: Address already in use)
nginx: [emerg] bind() to 0.0.0.80 failed (98: Address already in use)
nginx: [emerg] bind() to 0.0.0.80 failed (98: Address already in use)
nginx: [emerg] bind() to 0.0.0.80 failed (98: Address already in use)
nginx: [emerg] bind() to 0.0.0.80 failed (98: Address already in use)
nginx: [emerg] still could not bind()
```

重新加载配置文件

nginx -s reload