**IPAM-Macvlan 安装步骤**

一、安装etcd集群（或单机）

master1:10.143.97.21

docker run -d --net=host -p 2379:2379 -p 2380:2380 --restart=always --name etcd quay.io/coreos/etcd \

/usr/local/bin/etcd \

--data-dir=data.etcd \

--name etcd1 \

--advertise-client-urls http://10.143.97.21:2379 \

--listen-client-urls http://10.143.97.21:2379 \

--initial-advertise-peer-urls http://10.143.97.21:2380 \

--listen-peer-urls http://10.143.97.21:2380 \

--initial-cluster-token etcd-cluster \

--initial-cluster \

"etcd1=http://10.143.97.21:2380,etcd2=http://10.143.97.22:2380,etcd3=http://10.143.97.23:2380" \

--initial-cluster-state new

master2:10.143.97.22

docker run -d --net=host -p 2379:2379 -p 2380:2380 --restart=always --name etcd quay.io/coreos/etcd \

/usr/local/bin/etcd \

--data-dir=data.etcd \

--name etcd2 \

--advertise-client-urls http://10.143.97.22:2379 \

--listen-client-urls http://10.143.97.22:2379 \

--initial-advertise-peer-urls http://10.143.97.22:2380 \

--listen-peer-urls http://10.143.97.22:2380 \

--initial-cluster-token etcd-cluster \

--initial-cluster \

"etcd1=http://10.143.97.21:2380,etcd2=http://10.143.97.22:2380,etcd3=http://10.143.97.23:2380" \

--initial-cluster-state new

master3:10.143.97.23

docker run -d --net=host -p 2379:2379 -p 2380:2380 --restart=always --name etcd quay.io/coreos/etcd \

/usr/local/bin/etcd \

--data-dir=data.etcd \

--name etcd3 \

--advertise-client-urls http://10.143.97.23:2379 \

--listen-client-urls http://10.143.97.23:2379 \

--initial-advertise-peer-urls http://10.143.97.23:2380 \

--listen-peer-urls http://10.143.97.23:2380 \

--initial-cluster-token etcd-cluster \

--initial-cluster \

"etcd1=http://10.143.97.21:2380,etcd2=http://10.143.97.22:2380,etcd3=http://10.143.97.23:2380" \

--initial-cluster-state new

二、安装ipam插件

yum -y localinstall wondershaper-1.2.1-3.el7.noarch.rpm oam-docker-ipam-2.0.2-1.el7.centos.x86\_64.rpm

Oam配置

[root@pocservice01 oam-docker-ipam]# cat /etc/oam-docker-ipam/oam-docker-ipam.conf

# [ipam]

IPAM\_DEBUG=true

IPAM\_CLUSTER\_STORE=http://10.143.97.21:2379,http://10.143.97.22:2379,http://10.143.97.23:2379

# systemctl enable oam-docker-ipam

# systemctl start oam-docker-ipam

三、开启混杂模式

如果是要创建macvlan，则物理机上面网卡interface需要开通混杂模式。

# ifconfig bond1 promisc

四、创建 IP池 以及 macvlan

在一台机器执行即可：

oam-docker-ipam --cluster-store "http://10.143.97.21:2379,http://10.143.97.22:2379,http://10.143.97.23:2379" ip-range --ip-start 10.143.183.100/24 --ip-end 10.143.183.200/24

在每台macvlan节点执行：

docker network create -d macvlan --opt=com.docker.network.driver.mtu=1500 --ipam-driver=skylark --subnet=10.143.183.0/24 --gateway=10.143.183.31 -o parent=eno16780032 mynet

说明：gateway、parent 两个参数需要根据宿主机实际情况来修改。

五、构建ipam-console镜像

解压ipam-0.0.1-SNAPSHOT-20171020030241.zip

进入bin目录

执行bulid.sh 构建 ipam-console镜像（需要联网）

ipam-console.tar (已构建过的镜像)

六、启动ipam-console

docker run -d -p xxxx:8081 ipam-console:v1 java -jar /usr/project/app.jar /

--ipam.etcdUrl="http://10.157.27.41:2379" /

--ipam.consulHost="10.157.27.41" /

--ipam.consulPort="8500" /

etcd、consulHost的ip需要根据实际情况修改！