K8s-Install

https://blog.csdn.net/m0 51720581/article/details/131153894

环境规划

K8s 版本: 1.23.6

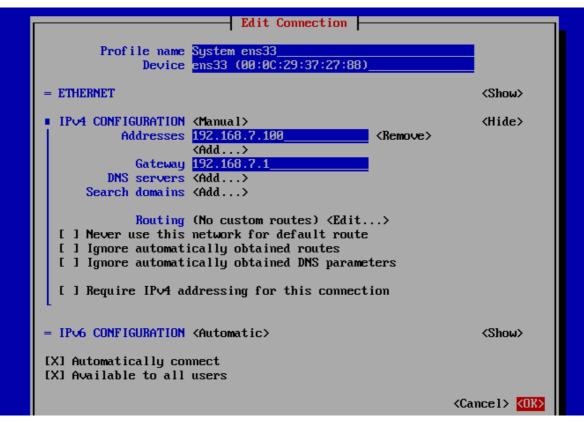
docker 版本: 20.10.0 容器运行时: docker

主机名	IP地址	机器参数
k8smaster	192.168.7.100	2C 2G
k8snode01	192.168.7.101	2C 2G
k8snode02	192.168.7.102	2C 2G

主机初始化

/etc/selinux/config 14L, 542U written
[root@localhost ~]# cat /etc/selinux/config | gro
SELINUX= can take one of these three values:
SELINUX=disabled
SELINUXTYPE= can take one of three values:
SELINUXTYPE=targeted
[root@localhost ~]# _







```
[root@localhost ~1# cat /etc/sysconfig/network-scripts/ifcfg-ens33
# Generated by parse-kickstart
IPV6 INIT=ues
IPV6_AUTOCONF=yes
BOOTPROTO=none
DEVICE=ens33
ONBOOT=yes
UUID=37b2a1ab-5757-462d-a5cf-19107edf7420
TYPE=Ethernet
PROXY METHOD=none
BROWSER ONLY=no
DEFROUTE=yes
IPV4 FAILURE FATAL=no
IPV6_DEFROUTE=yes
IPV6_FAILURE_FATAL=no
NAME="System ens33"
IPADDR=192.168.7.100
PREF IX=24
GATEWAY=192.168.7.1
[root@localhost ~]#
```

集群初始化



```
k8smaster - root@192.168.7.100:22 k8snode01 - root@192.168.7.101:... k8node02 - root@192.168.7.102:22 ⊕
 Ssh Sftn
Last login: Mon Sep 11 14:36:11 2023 [root@k8smaster ~] # [root@k8smaster ~] #
 [root@k8smaster ~] # getenforce
 [root@k8smaster ~] # systemctl disable --now
Too few arguments.

[root@k8smaster ~] # systemctl stop disable --now
 Failed to stop disable.service: Unit disable.service not loaded.
 Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; vendor preset: enabled)
Active: inactive (dead) since Mon 2023-09-11 14:56:27 CST; 6s ago
 Process: 696 ExecStart=/usr/sbin/firewalld --nofork --nopid $FIREWALLD_ARGS (code=exited, status=0/SUCCESS) Main PID: 696 (code=exited, status=0/SUCCESS)
Sep 11 22:35:32 localhost.localdomain systemd[1]: Starting firewalld - dynamic firewall daemon...
Sep 11 22:35:32 localhost.localdomain systemd[1]: Started firewalld - dynamic firewall daemon.
Sep 11 14:56:26 k8smaster systemd[1]: Stopping firewalld - dynamic firewall daemon...
Sep 11 14:56:27 k8smaster systemd[1]: Stopped firewalld - dynamic firewall daemon.
[root@k8smaster ~] # iptables -F
[root@k8smaster ~] # iptables -L -n
Chain INUMM (college ACCERM)
Chain INPUT (policy ACCEPT)
target
             prot opt source
                                                destination
Chain FORWARD (policy ACCEPT)
             prot opt source
                                                 destination
Chain OUTPUT (policy ACCEPT)
target prot opt source
[root@k8smaster ~]#
                                                 destination
                        画质 × 十
€t) •
                      k8smaster - root@192.168.7.100:22 k8snode01 - root@192.168.7.101:... k8node02 - root@192.168.7.102:22 🕣
       Ssh Sftp
(+)
      Last login: Mon Sep 11 14:36:00 2023
      [root@k8snode01 ~]#
       [root@k8snode01 ~]#
       [root@k8snode01 ~] # systemctl stop firewalld
(3)
      [root@k8snode01 ~]# iptables -L -n
      Chain INPUT (policy ACCEPT)
      target
                     prot opt source
                                                                  destination
      Chain FORWARD (policy ACCEPT)
                    prot opt source
                                                                  destination
      target
5
      Chain OUTPUT (policy ACCEPT)
      target prot opt source
                                                                  destination
6
      [root@k8snode01 ~]# iptables -F
      [root@k8snode01 ~] # systemctl disable firewalld
      Removed symlink /etc/systemd/system/multi-user.target.wants/firewalld.service.
      Removed symlink /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.
       [root@k8snode01 ~]#
(ET)
          新连接 🐼 k8smaster - root@192.168.7.100:22 k8snode01 - root@192.168.7.101:... k8node02 - root@192.168.7.102:22 💽
\oplus
         新连接
       Last login: Mon Sep 11 14:36:19 2023
       [root@k8snode02 ~]#
       [root@k8snode02 ~]#
       [root@k8snode02 ~]# systemctl stop firewalld
[root@k8snode02 ~]# systemctl disable firewalld
       Removed symlink /etc/systemd/system/multi-user.target.wants/firewalld.service.
       Removed symlink /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.
       [root@k8snode02 ~]#
```

```
[root@k8smaster ~] # vi /etc/fstab
 [root@k8smaster ~]# free -h
                                                    shared buff/cache available
             total
                                           free
                                                       9.5M
                                           1.5G
Mem:
                1.8G
                              134M
                                                                  133M
                                                                                   1.5G
                                           2.0G
                2.0G
Swap:
 [root@k8smaster ~]# swapoff -a
 [root@k8smaster ~]# free -h
        total used
                                           free shared buff/cache available 1.5G 9.5M 133M 1.5G
 [root@k8smaster ~] # cat /etc/fstab
 # /etc/fstab
# Created by anaconda on Mon Sep 11 22:19:06 2023
 # Accessible filesystems, by reference, are maintained under '/dev/disk'
 # See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
 /dev/mapper/centos-root /
                                                             defaults
                                                                                0 0
UUID=4bb29f43-0623-4c79-a29d-da295c1242c4 /boot
                                                                                 defaults
                                                                                                   0 0
#/dev/mapper/centos-swap swap
[root@k8smaster ~]#
                                                               defaults
                                                                                 0 0
                                                       swap
               ~] # sudo sed -e 's|^mirrorlist=|#mirrorlist=|g' '
          -e 's|^#baseurl=http://mirror.centos.org/centos|baseurl=https://mirrors.ustc.edu.cn/centos|g' \
          -i.bak \
          /etc/yum.repos.d/CentOS-Base.repo
[root@k8smaster ~] # yum makecache
Loaded plugins: fastestmirror
Determining fastest mirrors
base
extras
updates
(1/10): base/7/x86_64/group_gz
(2/10): base/7/x86_64/filelists_db
(3/10): base/7/x86_64/other_db
(3/10): base///x86_64/primary_db
(5/10): extras/7/x86_64/filelists_db
(6/10): extras/7/x86_64/primary_db
(7/10): extras/7/x86_64/other_db
(8/10): updates/7/x86_64/filelists_db
(9/10): updates/7/x86_64/other_db
(10/10): updates/7/x86_64/primary_db
Metadata Cache Created
[root@k8smaster ~]#
 [root@k8smaster ~] # cat /etc/host
 cat: /etc/host: No such file or directory
 [root@k8smaster ~] # cat /etc/hosts
 127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
 ::1
                localhost localhost.localdomain localhost6 localhost6.localdomain6
 # k8s
 192.168.7.100 k8smaster
 192.168.7.101 k8snode01
 192.168.7.102 k8snode02
  [root@k8smaster ~]#
```

```
[-W timeout] destination
[root@k8smaster ~] # ping -c 2 k8smaster
PING k8smaster (192.168.7.100) 56(84) bytes of data.
64 bytes from k8smaster (192.168.7.100): icmp_seq=1 ttl=64 time=0.011 ms
64 bytes from k8smaster (192.168.7.100): icmp seq=2 ttl=64 time=0.056 ms

    k8smaster ping statistics -

2 packets transmitted, 2 received, 0% packet loss, time 1000ms rtt min/avg/max/mdev = 0.011/0.033/0.056/0.023 ms
[root@k8smaster ~] # ping -c 2 k8snode01
PING k8snode01 (192.168.7.101) 56(84) bytes of data.
64 bytes from k8snode01 (192.168.7.101): icmp_seq=1 ttl=64 time=0.112 ms 64 bytes from k8snode01 (192.168.7.101): icmp_seq=2 ttl=64 time=0.131 ms
--- k8snode01 ping statistics -
2 packets transmitted, 2 received, 0% packet loss, time 999ms
rtt min/avg/max/mdev = 0.112/0.121/0.131/0.014 ms
[root@k8smaster ~] # ping -c 2 k8snode02
PING k8snode02 (192.168.7.102) 56(84) bytes of data.
64 bytes from k8snode02 (192.168.7.102): icmp_seq=1 ttl=64 time=14.9 ms
64 bytes from k8snode02 (192.168.7.102): icmp_seq=2 ttl=64 time=0.182 ms
--- k8snode02 ping statistics -
2 packets transmitted, 2 received, 0% packet loss, time 1001ms rtt min/avg/max/mdev = 0.182/7.561/14.940/7.379 ms
[root@k8smaster ~]#
```

```
[root@k8smaster ~] # scp /etc/modules-load.d/k8s.conf root@k8snode01:/etc/mo
                modules-load.d/ motd
[root@k8smaster ~] # scp /etc/modules-load.d/k8s.conf root@k8snode01:/etc/mo
modprobe.d/ modules-load.d/ motd
[root@k8smaster ~] # scp /etc/modules-load.d/k8s.conf root@k8snode01:/etc/modules-load.d/k8s.conf
The authenticity of host 'k8snode01 (192.168.7.101)' can't be established.
ECDSA key fingerprint is SHA256:PeMwAfvdyJmAcF1VwM6Y9XZ7GNx10a/mTzVyAXAX6fY.
ECDSA key fingerprint is MD5:54:63:38:be:0b:45:25:c1:72:34:a5:7c:dd:c0:1b:08.
Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added 'k8snode01,192.168.7.101' (ECDSA) to the list of known hosts.
root@k8snode01's password:
[root@k8smaster ~] # scp /etc/modules-load.d/k8s.conf root@k8snode02:/etc/modules-load.d/k8s.conf
The authenticity of host 'k8snode02 (192.168.7.102)' can't be established.
ECDSA key fingerprint is SHA256:pFbuvNYuWu9pnetjVZVpBrcN0Q1/sXpI7gRgIpe3+yo.
ECDSA key fingerprint is MD5:b0:17:e2:01:f2:e2:5d:97:70:b8:d4:57:74:75:35:31.
Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added 'k8snode02,192.168.7.102' (ECDSA) to the list of known hosts.
root@k8snode02's password:
[root@k8smaster ~]# [
```

```
sysctl: /etc/sysctl.conf(17): invalid syntax, continuing...
[root@k8snode02 ~] # vim /etc/sysctl.conf
[root@k8snode02 ~] # sysctl -p
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_nonlocal_bind = 1
net.ipv4.ip_forward = 1
vm.swappiness = 0
[root@k8snode02 ~] #
```

安装docker

```
49 sudo yum install -y yum-utils device-mapper-persistent-data lvm2
50 sudo yum-config-manager --add-repo https://mirrors.aliyun.com/docker-
ce/linux/centos/docker-ce.repo
51 sudo sed -i 's+download.docker.com+mirrors.aliyun.com/docker-ce+'
/etc/yum.repos.d/docker-ce.repo
52 yum makecache fast
53 yum install -y docker-ce-20.10.0 docker-ce-cli-20.10.0 containerd.io
54 history
```

```
[root@k8smaster ~] # vim /etc/docker/daemon.json
[root@k8smaster ~] # cat /etc/docker/daemon.json
           "registry-mirrors": [
           "http://hub-mirror.c.163.com",
           "https://docker.mirrors.ustc.edu.cn",
           "https://registry.docker-cn.com"
           "exec-opts": ["native.cgroupdriver=systemd"]
 [root@k8smaster ~]# systemctl restart docker
[root@k8smaster ~]# systemctl status docker

docker.service - Docker Application Container Engine
    Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
    Active: active (running) since Mon 2023-09-11 15:42:29 CST; 4s ago Docs: https://docs.docker.com
 Main PID: 12094 (dockerd)
    Memory: 42.6M
    CGroup: /system.slice/docker.service

-12094 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
Sep 11 15:42:29 k8smaster dockerd[12094]: time= 2023-09-11115:42:29.754387197+08:00 level=info msg= Loading Conta
Sep 11 15:42:29 k8smaster dockerd[12094]: time="2023-09-11115:42:29.754387197+08:00" level=info msg="Loading conta
Sep 11 15:42:29 k8smaster dockerd[12094]: time="2023-09-11115:42:29.763031393+08:00" level=info msg="Loading conta
Sep 11 15:42:29 k8smaster dockerd[12094]: time="2023-09-11115:42:29.763031393+08:00" level=info msg="Loading conta
Sep 11 15:42:29 k8smaster dockerd[12094]: time="2023-09-11T15:42:29.763062672+08:00" level=info msg="Daemon has co
Sep 11 15:42:29 k8smaster systemd[1]: Started Docker Application Container Engine.
Sep 11 15:42:29 k8smaster dockerd[12094]: time="2023-09-11T15:42:29.775331002+08:00" level=info msg="API listen on
Hint: Some lines were ellipsized, use -1 to show in full. [root@k8smaster ~]#
```

K8S instll

```
cat <<EOF > /etc/yum.repos.d/kubernetes.repo
[kubernetes]
name=Kubernetes
baseurl=https://mirrors.aliyun.com/kubernetes/yum/repos/kubernetes-el7-x86_64/
enabled=1
gpgcheck=1
repo_qpqcheck=1
gpgkey=https://mirrors.aliyun.com/kubernetes/yum/doc/yum-key.gpg
https://mirrors.aliyun.com/kubernetes/yum/doc/rpm-package-key.gpg
FOF
yum install -y kubelet-1.23.6 kubeadm-1.23.6 kubectl-1.23.6
# 拉取镜像
docker pull coredns/coredns:1.8.4
# 将镜像改名
docker tag coredns/coredns:1.8.4
registry.aliyuncs.com/google_containers/coredns:v1.8.4
```

Master 集群初始化

```
# 记得改变IP, 只要改第一行的IP地址, 一般改为master节点地址
   kubeadm init \
   --apiserver-advertise-address=192.168.7.100 \
   --image-repository registry.aliyuncs.com/google_containers \
   --service-cidr=10.1.0.0/16 \
   --pod-network-cidr=10.244.0.0/16
  #--pod-network-cidr=192.168.0.0/16
 [root@k8smaster ~]# kubeadm init \
 > --apiserver-advertise-address=192.168.7.100 \
> --image-repository registry.aliyuncs.com/google_containers \
> --service-cidr=10.1.0.0/16 \
> --pod-network-cidr=10.244.0.0/16
 10911 16:14:56.720135 12438 version.go:255] remote version is much newer: v1.28.1; falling back to: stable-1.23
 [preflight] Running pre-flight checks
 [preflight] Running pre-flight checks
[WARNING Service-Docker]: docker service is not enabled, please run 'systemctl enable docker.service'
[preflight] Pulling images required for setting up a Kubernetes cluster
[preflight] This might take a minute or two, depending on the speed of your internet connection
[preflight] You can also perform this action in beforehand using 'kubeadm config images pull'
[certs] Using certificateDir folder "/etc/kubernetes/pki"
[certs] Generating "ca" certificate and key
[certs] Generating "apiserver" certificate and key
[certs] apiserver serving cert is signed for DNS names [k8smaster kubernetes kubernetes.default kubernetes.default.svc ku
[certs] Generating "apiserver-kubelet-client" certificate and key
 [addons] Applied essential addon: CoreDNS
[addons] Applied essential addon: kube-proxy
 Your Kubernetes control-plane has initialized successfully!
 To start using your cluster, you need to run the following as a regular user:
   mkdir -p $HOME/.kube
   sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
sudo chown $(id -u):$(id -g) $HOME/.kube/config
 Alternatively, if you are the root user, you can run:
  export KUBECONFIG=/etc/kubernetes/admin.conf
 You should now deploy a pod network to the cluster.

Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:

https://kubernetes.io/docs/concepts/cluster-administration/addons/
 Then you can join any number of worker nodes by running the following on each as root:
 kubeadm join 192.168.7.100:6443 --token g63wxp.1wnjze8i4hlvipcd \
--discovery-token-ca-cert-hash sha256:6cad01de848e791531d57e04a056bf41ebebb51f172b713e4a9af23bf3a034da
[root@k8smaster ~]#
--discovery-token-ca-cert-hash sha256:6cad01de848e791531d57e04a056bf
ot@k8smaster ~]  # mkdir -p $HOME/.kube
ot@k8smaster ~]  # sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
ot@k8smaster ~]  # sudo chown $(id -u):$(id -g) $HOME/.kube/config
                       -token-ca-cert-hash sha256:6cad01de848e791531d57e04a056bf41ebebb51f172b713e4a9af23bf3a034da
ot@k8smaster ~]#
  Your Kubernetes control-plane has initialized successfully!
  To start using your cluster, you need to run the following as a regular user:
      mkdir -p $HOME/.kube
      sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
      sudo chown $(id -u):$(id -g) $HOME/.kube/config
  Alternatively, if you are the root user, you can run:
      export KUBECONFIG=/etc/kubernetes/admin.conf
  You should now deploy a pod network to the cluster.
  Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:
      https://kubernetes.io/docs/concepts/cluster-administration/addons/
  Then you can join any number of worker nodes by running the following on each as
   root:
```

node 主机设置

完成

```
kube-flannel-ds-zz5cl
                       1/1
                               Running
                                                   5m2s
^C[root@k8smaster ~] # kubectl get pods -n kube-flannel --watch 3
Error from server (NotFound): pods "3" not found
[root@k8smaster ~] # kubectl get pods -n kube-flannel --watch -n3
^C[root@k8smaster ~]# kubectl get pods -n kube-flannel --watch 3
Error from server (NotFound): pods "3" not found
[root@k8smaster ~] # kubectl get pods -n kube-flannel --watch
                       READY STATUS
                                        RESTARTS
                             Running
kube-flannel-ds-2bf4k 1/1
                                                   4m11s
kube-flannel-ds-gpnpx 1/1
                             Running
                                                   4m6s
kube-flannel-ds-zz5cl 1/1 Running
                                                   5m21s
^C[root@k8smaster ~] # kubectl get pods -n kube-flannel --watch
                      READY STATUS RESTARTS AGE
NAME
kube-flannel-ds-2bf4k 1/1
                              Running
                                                   4m20s
kube-flannel-ds-gpnpx 1/1
kube-flannel-ds-zz5cl 1/1
                              Running
                                                   4m15s
                             Running
                                                  5m30s
^C[root@k8smaster ~] # kubectl get node
           STATUS ROLES
                                          AGE
                                                  VERSION
k8smaster
         Ready control-plane, master
                                          11m
                                                  v1.23.6
         Ready
                 <none>
k8snode01
                                          4m31s v1.23.6
k8snode02 Ready
                                                  v1.23.6
                                          4m26s
[root@k8smaster ~]#
```

```
k8snode02 Ready <none> 4m57s v1.23.6
[root@k8smaster ~\| # kubectl create deployment k8s-nginx --image=nginx -r 3
deployment.apps/k8s-nginx created
[root@k8smaster ~\| # kubectl get pod -o wide
NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES
k8s-nginx-6d779d947c-59qh8 0/1 ContainerCreating 0 16s <none> k8snode01 <none> <none>
k8s-nginx-6d779d947c-djzx7 0/1 ContainerCreating 0 16s <none> k8snode02 <none> <none>
k8s-nginx-6d779d947c-wxhx2 0/1 ContainerCreating 0 16s <none> k8snode02 <none> <none>
[root@k8smaster ~]#
```

其他

命令补全

```
yum -y install bash-completion
source /usr/share/bash-completion/bash_completion
source <(kubectl completion bash)
echo "source <(kubectl completion bash)" >> ~/.bashrc
```

NGINX 主机设置 VPN设置

```
1 vi /etc/selinux/config
    2 init 0
   3 nmtui
   4 exit
   5 ip a
   6 cd /opt/
   7 1s
   8 mkdir pritunl-client
   9 cd pritunl-client/
  10 yum install -y wget
  11 wget https://note.heike07.cn/key/445bc78904f944ea8326527ed9b88424.tar
  12 ls
  13 sudo tee -a /etc/yum.repos.d/pritunl.repo << EOF</pre>
[pritun1]
name=Pritunl Stable Repository
baseurl=https://repo.pritunl.com/stable/yum/centos/8/
gpgcheck=1
enabled=1
EOF
  14 cd /etc/yum.repos.d/
  15 ls
  16 11
  17 cd pritunl.repo
  18 yum install -y vim
  19 vi pritunl.repo
  20 yum install -y vim
  21 gpg --keyserver hkp://keyserver.ubuntu.com --recv-keys
7568D9BB55FF9E5287D586017AE645C0CF8E292A
   22 gpg --armor --export 7568D9BB55FF9E5287D586017AE645C0CF8E292A > key.tmp;
sudo rpm --import key.tmp; rm -f key.tmp
  23 yum install pritunl-client
   24 yum install pritunl-client Error: Package: pritunl-openvpn-2.5.8-
1.el7.centos.x86_64 (pritunl)
  25
                 Requires: libpkcs11-helper.so.1()(64bit)
   26 You could try using --skip-broken to work around the problem
  27 You could try running: rpm -Va --nofiles --nodigest
  28 yum install libpkcs11-helper
  29 yum install libpkcs11
  30 yum install openssl
  31 yum install pritunl-client
  32 yum install libp11
   33 yum remove openssl
   34 yum install -y epel-release
  35 yum install -y openssl-devel openssl11 openssl1-devel
   36 yum install pritunl-client
  37 cd /opt/pritunl-client/
   38 1s
   39 pritunl-client add 445bc78904f944ea8326527ed9b88424.tar
```

```
40 pritunl-client list
41 pritunl-client start cj9gz4mb5jxjpkwx
42 pritunl-client list
43 firewall-cmd --list-all
44 systemctl stop firewalld
45 systemctl disabled firewalld
46 systemctl disable firewalld
47 iptables -L -n
48 pritunl-client list
49 pritunl-client stop cj9gz4mb5jxjpkw
50 pritunl-client list
51 curl heike07.cn
52 curl note.heike07.cn
53 pritunl-client list
54 pritunl-client start cj9gz4mb5jxjpkwx
55 pritunl-client list
56 cd /var/log/
57 1s
58 11
59 date
60 tail pritunl-client.log
61 tail pritunl-client.log.1
62 1s
63 11
64 vim pritunl-client.log
65 tail pritunl-client.log
66 ss -lnpt | grep openvpn
67 top
68* ss -
69 pritunl-client list
70 ls
71 11
72 cd /opt/pritunl-client/
73 1s
74 11
75 vim 445bc78904f944ea8326527ed9b88424.tar
76 pritunl-client list
77 rpm -qa | grep openvpn
78 rpm -qa | grep pritunl
79 yum remove pritunl-openvpn-2.5.8-1.el7.centos.x86_64
80 yum install openvpn
81 yum install pritunl-openvpn
82 yum install pritunl-client-1.3.3484
83 yum install pritunl-client
84 rpm -qa | grep pritunl
85 pritunl-client list
86 ping 192.168.239.10
87 ip a
88 history
```

nginx steam 模块加载代理

```
142 history |grep configure

143 ./configure --with-http_v2_module --with-http_ssl_module --with-
http_sub_module --with-http_stub_status_module --with-http_gzip_static_module --
with-pcre --with-stream --with-stream=dynamic --with-stream_ssl_module --with-
stream_realip_module
```

```
[root@nginx conf]# cat nginx.conf | grep load
load_module /usr/local/nginx/modules/ngx_stream_module.so;
[root@nginx conf]#

[root@nginx sbin]# ./nginx -V
nginx version: nginx/1.24.0
built by gcc 4.8.5 20150623 (Red Hat 4.8.5-44) (GCC)
built with OpenSsL 1.0.2k-fips 26 Jan 2017
TLS SNI support enabled
configure arguments: --with-http_v2_module --with-http_ssl_module --with-http_sub_module --with-http_stub_status_module --with-http_gzip_static_module --with-pcre --with-stream --with-stream=dynamic --with-stream_ssl_module --with-stream_realip_module
[root@nginx sbin]#
```