□□k8s-v1.28.0

k8s □1.24□□□□□dokcer□□□□□□□□□□1.24.0□□□□□□□□□□

- k8s □□□

https://kubernetes.io/releases/

- □□□□□□

```
# □□□□□□□□□□□□□
# □□□□□□ --image-repository □□ google □□□□□□

./kubeadm config images list --image-
repository=harbor.iovhm.com/public/arm64/google_containers --kubernetes-version v1.28.14
```

- □□□□□□

```
# □□□□□

wget iovhm.com/uploads/software/k8s/v1.28.14/kubectl
wget iovhm.com/uploads/software/k8s/v1.28.14/kubelet
wget iovhm.com/uploads/software/k8s/v1.28.14/kubeadm

# docker-compose

wget iovhm.com/uploads/software/k8s/docker-compose

# □□□□
# https://github.com/Mirantis/cri-dockerd
wget iovhm.com/uploads/software/k8s/v1.28.14/cri-dockerd-0.3.4-3.el7.x86_64.rpm
```

```
# https://github.com/kubernetes-sigs/cri-tools
wget iovhm.com/uploads/software/k8s/v1.28.14/crictl-v1.28.0-linux-amd64.tar.gz


# □□□□□□

wget iovhm.com/uploads/software/k8s/v1.28.14/10-kubeadm.conf
wget iovhm.com/uploads/software/k8s/v1.28.14/kubelet.service

# □□□□
wget iovhm.com/uploads/software/k8s/v1.28.14/calico.yaml


# nginx-ingress
wget iovhm.com/uploads/software/k8s/v1.28.14/nginx-ingress.yaml

# traefik-ingress
wget iovhm.com/uploads/software/k8s/v1.28.14/traefik-ingress.tar

# nfs-storage
wget iovhm.com/uploads/software/k8s/v1.28.14/nfs-storage.tar


# □□ socat conntrack □□□□

yum install -y socat
yum install -y conntrack


# □□□□□□□□□□
cp kubectl kubelet kubeadm /usr/local/bin/


# □□□□

yum install cri-dockerd-0.3.4-3.el7.x86_64.rpm

# □□cri-docker□□□□
# vi /usr/lib/systemd/system/cri-docker.service
```

```
# 修改cri-docker配置文件，在后面增加参数，告诉告诉docker使用 pause镜像与版本
# --pod-infra-container-image=registry.aliyuncs.com/google_containers/pause:3.9

# 开启服务
systemctl enable cri-docker
systemctl restart cri-docker



# 复制crictl到目录
tar -xvzf crictl-v1.28.0-linux-amd64.tar.gz
cp crictl /usr/local/bin

# 修改crictl配置文件（非必须）
# 因为crictl是一个统一的容器管理工具，管理多种容器，不修改如下配置也没事，只是看到一堆错误提示不友好

# vi /etc/crictl.yaml
# runtime-endpoint: unix:///var/run/cri-dockerd.sock
# 或者
echo "runtime-endpoint: unix:///var/run/cri-dockerd.sock" >> /etc/crictl.yaml



# 安装kubelet服务，开启服务自启动
# 需要注意 服务文件里面的执行路径

cp kubelet.service /usr/lib/systemd/system/kubelet.service
mkdir -p /etc/systemd/system/kubelet.service.d
cp 10-kubeadm.conf  /etc/systemd/system/kubelet.service.d



# 安装docker，修改docke运行方式



vi /etc/docker/daemon.json

{
        "graph":"/data/docker",
        "storage-driver": "overlay2",
        "exec-opts": ["native.cgroupdriver=systemd"]
}
```

```
# □□kubelet □□□□□□
# □□□□□□□□□□□□□□□□

systemctl enable kubelet.service
systemctl status kubelet
```

- □□keepalived□□□□□□□□,□□□□□:

  docker-keepalived:https://iovhm.com/book/books/k8s/page/docker-keepalived

- □□KUBE-VIP□□□□□(□□□□□□□□)

  kube-vip:https://iovhm.com/book/books/k8s/page/kube-vipk8s

```
# □□KUBE-VIP □□□□□□□□□□□□□KUBE-VIP□□□□□□□□□□, □□□□□□kube-api-server□□master□□□

docker run --network host --rm swr.cn-south-1.myhuaweicloud.com/vp-whdev/all-in-devops/kube-vip:v0.6.0 manifest pod --interface=eth0 --vip 192.168.0.200  --controlplane --services  --arp  --leaderElection |  tee /etc/kubernetes/manifests/kube-vip.yaml
```

- □□

```
# □□□□□

kubeadm init --control-plane-endpoint "kube-api-server:6443" --image-repository registry.aliyuncs.com/google_containers --upload-certs --kubernetes-version v1.28.14   --pod-network-cidr 10.244.0.0/16 --service-cidr=10.96.0.0/16 --cri-socket unix:///var/run/cri-dockerd.sock --v  5

# □□□□□□□□□□kubeadm□□□□□□□□□□□□□□□□□□□
```

```
--apiserver-advertise-address 192.168.5.10

# □□□□□□master□□□□
# □□□□□□□□□□  --cri-socket unix:///var/run/cri-dockerd.sock --v  5

echo "$(kubeadm token create --print-join-command) --control-plane --certificate-key $(kubeadm
init phase upload-certs --upload-certs |  tail -1)"

# □□□□□□□□□□□
# □□□□□□□□□□  --cri-socket unix:///var/run/cri-dockerd.sock --v  5

kubeadm token create --print-join-command



# □□□□

kubeadm reset --cri-socket unix:///var/run/cri-dockerd.sock
```

```
# □□□□□□

kubectl apply -f calico.yaml


# □□□ipvs□□
# 40□□mode:"ipvs"
kubectl edit cm -n kube-system kube-proxy

# □□nfs□□

tar -xvf nfs-storage
kubectl -f 00-nfs-storage-rabc.yaml -f 01-nfs-storage-provisioner.yaml -f 02-nfs-storage-
class.yaml
```

□□ingress-controller

□□□□nginx-ingress

```
# □□nginx-ingress

kubectl apply -f nginx-ingress.yaml



# □□traefik-ingress
# □□□□□nginx-ingress□□□

kubeclt apply -f 00-account.yaml -n kube-system \
              -f 01-role.yaml -n kube-system \
              -f 02-role-binding.yaml -n kube-system \
              -f 03-traefik.yaml -n kube-system \
              -f 04-traefik-services.yaml -n kube-system \
              -f 05-traefik-default-tls.yaml -n kube-system
```

□pod□□□□□□□□□□□□□□

```
# □□□volumes□□
      tolerations:
        - effect: NoSchedule
          operator: Exists
        - key: CriticalAddonsOnly
          operator: Exists
        - effect: NoExecute
          operator: Exists
```

□□□ #35
□ □□□ □□□ 16 □□ 2023 11:23:45
□ □□□ □□□ 2 □□ 2026 05:11:52