

☐☐k8s-v1.28.0

k8s ☐1.24☐☐☐☐doker☐☐☐☐☐☐☐☐1.24.0☐☐☐☐☐☐☐☐

- ☐☐☐☐☐☐

```
# ☐☐☐☐
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```
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
```

```
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```

```
# 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
```

```
# ☐☐☐☐☐☐
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```
wget iovhm.com/uploads/software/k8s/v1.28.14/10-kubeadm.conf
```

```
wget iovhm.com/uploads/software/k8s/v1.28.14/kubelet.service
```

```
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```
wget iovhm.com/uploads/software/k8s/v1.28.14/calico.yaml
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```
wget iovhm.com/uploads/software/k8s/v1.28.14/calico-image-vp-whdev.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 contrack [ ]
```

```
yum install -y socat
```

```
yum install -y contrack
```

```
# [ ]
```

```
cp kubectll 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
```

```
# [ ]cri-docker[ ]docker [ ] pause[ ]
```

```
# --pod-infra-container-image=registry.aliyuncs.com/google_containers/pause:3.9
```

```
# [ ]
```

```
systemctl enable cri-docker
```

```
systemctl restart cri-docker
```

```
# [ ]crictrl[ ]
```

```
tar -xvzf crictrl-v1.28.0-linux-amd64.tar.gz
```

```
cp crictrl /usr/local/bin
```

```
# [ ]crictrl[ ]
```

```
# [ ]crictrl[ ]
```

```

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

# []kubelet[[]]
# [[]] [[]],

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

# []docker [[]]docke[[]]

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
```

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```
#

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=10.96.0.0/12 --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[]
```

```
kubectl apply -f 00-account.yaml -n kube-system \  
-f 01-role.yaml -n kube-system \  
-f 02-service.yaml -n kube-system \  
-f 03-deployment.yaml -n kube-system \  
-f 04-ingress.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
```

#27

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