

k8s

<https://zahui.fan/posts/34d8fad0/>

- kubeadm

```
kubectl -n kube-system get configmap kubeadm-config -o jsonpath='{.data.ClusterConfiguration}'  
> kubeadm.yaml
```

- SANs

certSANs **extraArgs** **master** **IP**

controlPlaneEndpoint: kube-api-server:6443

```
apiServer:  
  certSANs:  
    # master hostname ip  
    - kube-api-server  
    - 5-10.vpclub.io  
    - 5-11.vpclub.io  
    - 5-12.vpclub.io  
    - 192.168.5.10  
    - 192.168.5.11  
    - 192.168.5.12  
    - 192.168.5.200  
  extraArgs:  
    authorization-mode: Node,RBAC  
    timeoutForControlPlane: 4m0s  
apiVersion: kubeadm.k8s.io/v1beta2  
certificatesDir: /etc/kubernetes/pki  
clusterName: kubernetes  
controlPlaneEndpoint: kube-api-server:6443 #  
controllerManager: {}  
dns:  
  type: CoreDNS
```

```
etcd:
  local:
    dataDir: /var/lib/etcd
imageRepository: registry.aliyuncs.com/google_containers
kind: ClusterConfiguration
kubernetesVersion: v1.20.15
networking:
  dnsDomain: cluster.local
  podSubnet: 10.244.0.0/16
  serviceSubnet: 10.96.0.0/12
scheduler: {}
```

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- kuberneteskubernetes

```
mkdir -p /data/vpclub/kubernetes-bak/kubernetes-20240619
cp /etc/kubernetes/** /data/vpclub/kubernetes-bak/kubernetes-20240619 -rf
```

-

```
#
rm /etc/kubernetes/pki/apiserver.key -rf
rm /etc/kubernetes/pki/apiserver.crt

#
kubeadm init phase certs apiserver --config kubeadm.yaml

#
openssl x509 -in /etc/kubernetes/pki/apiserver.crt -text
```

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- `cluster-info`

```
# server kube-api-server
kubectl -n kube-public edit cm cluster-info
```

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- `init`

```
kubeadm init phase upload-config kubeadm --config kubeadm.yaml
```

```
#
kubectl edit cm kubeadm-config -n kube-system
```

- `Apiserver`

```
kubectl delete pod kube-apiserver-5-10.vpclub.io kube-controller-manager-5-10.vpclub.io -n kube-system
```

- `KUBE-VIP`

```
# KUBE-VIP

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 192.168.5.200 --controlplane --services --arp --leaderElection | tee /etc/kubernetes/manifests/kube-vip.yaml

# KUBE-VIP, ping
ping kube-api-server
ping 192.168.5.200
```

- `iptables -t nat -A KUBE-APISERVER -s 10.0.0.0/8 -d 10.0.0.0/8 -j KUBE-APISERVER` kube-api-server

```
vi /etc/kubernetes/kubelet.conf
# 10.0.0.1 IP
vi /etc/kubernetes/controller-manager.conf
# 10.0.0.1 IP
vi /etc/kubernetes/scheduler.conf
```

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- `systemctl restart kubelet`

```
systemctl restart kubelet
kubectl delete pod -n kube-system kube-controller-manager-5-10.vpclub.io
kubectl delete pod -n kube-system kube-scheduler-5-10.vpclub.io
```

- `iptables -t nat -A KUBE-APISERVER -s 10.0.0.0/8 -d 10.0.0.0/8 -j KUBE-APISERVER` kube-api-server

```
kubectl edit configmap kube-proxy -n kube-system

# kube-proxy
kubectl rollout restart daemonset kube-proxy -n kube-system
```

- `kubectl get pods -n kube-system`

```
vi ~/.kube/config
vi /etc/kubernetes/admin.conf
# 10.0.0.1
kubectl cluster-info
```

- `kubectl get pods -n kube-system`

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

```
10.0.0.1 master 10.0.0.1
```

- node

```
kubeadm token create --print-join-command
```

#13

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