

# Change serviceSubnet in Kubernetes

## Changing the default ip range

```
kubeadm config upload from-flags --service-cidr 172.26.0.0/16
```

in:

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

Also this file:

```
/etc/kubernetes/manifests/kube-apiserver.yaml
```

and this file:

```
/etc/kubernetes/manifests/kube-controller-manager.yaml
```

Backup the apiserver cert files:

```
mv /etc/kubernetes/pki/apiserver.{crt,key} /bak
```

Save all svcs and recreate svcs:

```
kubectl get svc --all-namespaces | grep -v -w kubernetes | awk '$4 !~ /None|CLUSTER/{print "kubectl get svc -n \"$1\" \" $2 \" -o yaml && echo ---\"}' | bash | sed '/clusterIP: 10/d' > all_svc.yaml
```

```
kubectl get svc --all-namespaces | awk '$4 !~ /None|CLUSTER/{print "kubectl delete svc -n \"$1\" \" $2\"}' | bash
```

```
kubectl apply -f all_svc.yaml
```

update the cluster DNS:

```
kubectl get svc -A | grep dns
```

change entry in /etc/cni/net.d/calico-kubeconfig for the intern connecting to kube-api server

```
server: https://172.30.0.1:443
```

and change init.yml file

```
networking:  
  serviceSubnet: 172.30.0.0/16  
  podSubnet: 172.20.0.0/16
```

# change kubelet config

```
kubectl -n kube-system edit cm kubelet-config
```

update the apiserver certs:

```
kubeadm init phase certs apiserver --config=kubeadm.yaml
```

```
kubeadm upgrade node phase kubelet-config
```

```
systemctl restart kubelet
```

After doing this in all master nodes and rebooting I can see that the services are using 172.26.0.0/16 range.

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