kubernetes修改默认端口范围（安装完成后修改版）

1、关闭kubelet服务

```
$ systemctl stop kubelet
```

2、修改配置文件，添加配置参数

```
$ vim /etc/kubernetes/manifests/kube-apiserver.yaml
apiVersion: v1
kind: Pod
metadata:
  annotations:
    scheduler.alpha.kubernetes.io/critical-pod: ""
  creationTimestamp: null
  labels:
    component: kube-apiserver
    tier: control-plane
  name: kube-apiserver
  namespace: kube-system
spec:
  containers:
  - command:
    - kube-apiserver
    - --requestheader-client-ca-file=/etc/kubernetes/pki/front-proxy-ca.crt
    - --enable-bootstrap-token-auth=true
    - --requestheader-username-headers=X-Remote-User
    - --requestheader-group-headers=X-Remote-Group
    - --requestheader-allowed-names=front-proxy-client
    - --service-account-key-file=/etc/kubernetes/pki/sa.pub
    - --kubelet-client-key=/etc/kubernetes/pki/apiserver-kubelet-client.key
    - --insecure-port=0
    - --proxy-client-cert-file=/etc/kubernetes/pki/front-proxy-client.crt
    -
--admission-control=NamespaceLifecycle,LimitRanger,ServiceAccount,DefaultS
torageClass,DefaultTolerationSeconds,NodeRestriction,MutatingAdmissionWebh
ook,ValidatingAdmissionWebhook,ResourceQuota
    - --kubelet-preferred-address-types=InternalIP,ExternalIP,Hostname
    - --advertise-address=10.22.60.26
    - --client-ca-file=/etc/kubernetes/pki/ca.crt
    - --tls-cert-file=/etc/kubernetes/pki/apiserver.crt
    - --tls-private-key-file=/etc/kubernetes/pki/apiserver.key
    - --allow-privileged=true
    - --requestheader-extra-headers-prefix=X-Remote-Extra-
    - --service-cluster-ip-range=10.96.0.0/12
    -
--kubelet-client-certificate=/etc/kubernetes/pki/apiserver-kubelet-client.
crt
    - --secure-port=6443
    - --proxy-client-key-file=/etc/kubernetes/pki/front-proxy-client.key
    - --authorization-mode=Node,RBAC
    - --etcd-servers=https://127.0.0.1:2379
    - --service-node-port-range=1-65535  ##
    - --etcd-cafile=/etc/kubernetes/pki/etcd/ca.crt
    - --etcd-certfile=/etc/kubernetes/pki/apiserver-etcd-client.crt
    - --etcd-keyfile=/etc/kubernetes/pki/apiserver-etcd-client.key
    image: 10.22.60.25/kubernetes/kube-apiserver-amd64:v1.10.0
.......
```

3、关闭启动的容器

```
$ docker stop `docker ps | awk '{print $1}'`   ## dockerAPI server
```

4、启动kubelet服务（所有停止的容器，将会有kubelet再次拉起）

```
$ systemctl  start kubelet
```

5、查看容器是否启动

```
$ docker ps
CONTAINER ID        IMAGE                                     COMMAND
CREATED             STATUS              PORTS               NAMES
449ebd85fa97        6f7f2dc7fab5                              "/sidecar
--v=2 --..."   18 minutes ago      Up 18 minutes
k8s_sidecar_kube-dns-6c747687bd-cqhsx_kube-system_5e4c6dc8-c484-11e8-9112-
005056896ef4_2
40d1c468df2a        c2ce1ffb51ed
"/dnsmasq-nanny -v..."   18 minutes ago      Up 18 minutes
k8s_dnsmasq_kube-dns-6c747687bd-cqhsx_kube-system_5e4c6dc8-c484-11e8-9112-
005056896ef4_2
d9b02464ae3a        80cc5ea4b547                              "/kube-dns
--domai..."   18 minutes ago      Up 18 minutes
k8s_kubedns_kube-dns-6c747687bd-cqhsx_kube-system_5e4c6dc8-c484-11e8-9112-
005056896ef4_2
7b3407c57a86        2b736d06ca4c
"/opt/bin/flanneld..."   18 minutes ago      Up 18 minutes
k8s_kube-flannel_kube-flannel-ds-xxk8m_kube-system_d8c670ba-c486-11e8-9112
-005056896ef4_2
27e5f5678b61        0c60bcf89900                              "/dashboard
--inse..."   18 minutes ago      Up 18 minutes
k8s_kubernetes-dashboard_kubernetes-dashboard-ff794d6d8-sf2pc_kube-system_
fcbca170-c486-11e8-9112-005056896ef4_2
a069c1aef8c0        10.22.60.25/kubernetes/pause-amd64:3.0   "/pause"
18 minutes ago      Up 18 minutes
k8s_POD_kube-flannel-ds-xxk8m_kube-system_d8c670ba-c486-11e8-9112-00505689
6ef4_2
741724c90695        bfc21aadc7d3
"/usr/local/bin/ku..."   18 minutes ago      Up 18 minutes
k8s_kube-proxy_kube-proxy-w9st8_kube-system_5e5797a4-c484-11e8-9112-005056
896ef4_2
aea4897f1349        10.22.60.25/kubernetes/pause-amd64:3.0   "/pause"
18 minutes ago      Up 18 minutes
k8s_POD_kube-proxy-w9st8_kube-system_5e5797a4-c484-11e8-9112-005056896ef4_2
e43ccc29e2e2        10.22.60.25/kubernetes/pause-amd64:3.0   "/pause"
18 minutes ago      Up 18 minutes
k8s_POD_kube-dns-6c747687bd-cqhsx_kube-system_5e4c6dc8-c484-11e8-9112-0050
56896ef4_2
bbddc24a6dab        10.22.60.25/kubernetes/pause-amd64:3.0   "/pause"
18 minutes ago      Up 18 minutes
k8s_POD_kubernetes-dashboard-ff794d6d8-sf2pc_kube-system_fcbca170-c486-11e
8-9112-005056896ef4_2
.......
```

6、测试将nodePort端口配置到默认配置以外（默认配置为30001-32767）

```
$ cat bds-test.yaml   #
apiVersion: v1
kind: ReplicationController
metadata:
  name: bds-controller
spec:
  replicas: 1
  template:
    metadata:
      labels:
        name: core-bds
    spec:
      imagePullSecrets:
      - name: core-bds
      containers:
        - name: bds
          image: 10.22.60.25/overseas_core/bds:v1.6.0.0
          volumeMounts:
          - mountPath: "/app/bds/webapps/ROOT/WEB-INF"
            name: bds-etc
      volumes:
        - name: bds-etc
          persistentVolumeClaim:
            claimName: pvc-bds-etc

---
apiVersion: v1
kind: Service
metadata:
  name: core-bds-svc
spec:
  type: NodePort
  ports:
    - port: 80
      targetPort: 8080
      protocol: TCP
      nodePort: 200  # nodePort
  selector:
    name: core-bds
```

7、使用yaml配置文件部署服务

```
$ kubectl  apply  -f bds-test.yaml
replicationcontroller "bds-controller" created
service "core-bds-svc" created
```

8、在浏览器访问是否能访问

```
$ netstat  -lntp | grep 200  #
tcp        0      0 10.22.60.26:42000       0.0.0.0:*               LISTEN
23539/node_exporter
tcp6       0      0 :::200                  :::*                    LISTEN
12351/kube-proxy
```