DR@DESKTOP-2PMUM4M MINGW64 /d/Mahfuz/Vagrant/kubernetes/yamls (master)

$ kubectl get nodes

NAME STATUS ROLES AGE VERSION

kmaster Ready control-plane 46h v1.26.0

kworker1 Ready <none> 46h v1.26.0

kworker2 Ready <none> 46h v1.26.0

DR@DESKTOP-2PMUM4M MINGW64 /d/Mahfuz/Vagrant/kubernetes/yamls (master)

$ kubeclt label node kworker2 demoserver=true

bash: kubeclt: command not found

DR@DESKTOP-2PMUM4M MINGW64 /d/Mahfuz/Vagrant/kubernetes/yamls (master)

$ kubectl label node kworker2 demoserver=true

node/kworker2 labeled

DR@DESKTOP-2PMUM4M MINGW64 /d/Mahfuz/Vagrant/kubernetes/yamls (master)

$ kubectl get node kworker2 --show-labels

NAME STATUS ROLES AGE VERSION LABELS

kworker2 Ready <none> 46h v1.26.0 beta.kubernetes.io/arch=amd64,beta.kubernetes.io/os=linux,demoserver=true,kubernetes.io/arch=amd64,kubernetes.io/hostname=kworker2,kubernetes.io/os=linux

DR@DESKTOP-2PMUM4M MINGW64 /d/Mahfuz/Vagrant/kubernetes/yamls (master)

$ vi 1-nginx-deployment.yaml

apiVersion: apps/v1

kind: Deployment

metadata:

labels:

run: nginx

name: nginx-deploy

spec:

replicas: 1

selector:

matchLabels:

run: nginx

template:

metadata:

labels:

run: nginx

spec:

containers:

- image: nginx

name: nginx

nodeSelector:

demoserver: 'true'

DR@DESKTOP-2PMUM4M MINGW64 /d/Mahfuz/Vagrant/kubernetes/yamls (master)

$ kubectl get all -o wide

NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES

pod/nginx-deploy-68b77bf746-vs6j9 1/1 Running 0 4m1s 192.168.77.131 kworker2 <none> <none>

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE SELECTOR

service/kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 47h <none>

NAME READY UP-TO-DATE AVAILABLE AGE CONTAINERS IMAGES SELECTOR

deployment.apps/nginx-deploy 1/1 1 1 4m2s nginx nginx run=nginx

NAME DESIRED CURRENT READY AGE CONTAINERS IMAGES SELECTOR

replicaset.apps/nginx-deploy-68b77bf746 1 1 1 4m1s nginx nginx pod-template-hash=68b77bf746,run=nginx

DR@DESKTOP-2PMUM4M MINGW64 /d/Mahfuz/Vagrant/kubernetes/yamls (master)

$ kubectl describe pod nginx-deploy-68b77bf746-vs6j9

Name: nginx-deploy-68b77bf746-vs6j9

Namespace: default

Priority: 0

Service Account: default

Node: kworker2/172.16.16.102

Start Time: Wed, 12 Jul 2023 11:35:50 +0600

Labels: pod-template-hash=68b77bf746

run=nginx

Annotations: cni.projectcalico.org/containerID: 9931500072cbfa30db78b6d88c9c8ea08640a4b461857252846253f6d2d523ff

cni.projectcalico.org/podIP: 192.168.77.131/32

cni.projectcalico.org/podIPs: 192.168.77.131/32

Status: Running

IP: 192.168.77.131

IPs:

IP: 192.168.77.131

Controlled By: ReplicaSet/nginx-deploy-68b77bf746

Containers:

nginx:

Container ID: containerd://aacbc82a3fe20b8945aa86ec83441ac36fb3b6263b104c87d2557899941e37d0

Image: nginx

Image ID: docker.io/library/nginx@sha256:08bc36ad52474e528cc1ea3426b5e3f4bad8a130318e3140d6cfe29c8892c7ef

Port: <none>

Host Port: <none>

State: Running

Started: Wed, 12 Jul 2023 11:35:54 +0600

Ready: True

Restart Count: 0

Environment: <none>

Mounts:

/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-r7pmq (ro)

Conditions:

Type Status

Initialized True

Ready True

ContainersReady True

PodScheduled True

Volumes:

kube-api-access-r7pmq:

Type: Projected (a volume that contains injected data from multiple sources)

TokenExpirationSeconds: 3607

ConfigMapName: kube-root-ca.crt

ConfigMapOptional: <nil>

DownwardAPI: true

QoS Class: BestEffort

Node-Selectors: demoserver=true

Tolerations: node.kubernetes.io/not-ready:NoExecute op=Exists for 300s

node.kubernetes.io/unreachable:NoExecute op=Exists for 300s

Events:

Type Reason Age From Message

---- ------ ---- ---- -------

Normal Scheduled 4m24s default-scheduler Successfully assigned default/nginx-deploy-68b77bf746-vs6j9 to kworker2

Normal Pulling 4m23s kubelet Pulling image "nginx"

Normal Pulled 4m20s kubelet Successfully pulled image "nginx" in 3.647894519s (3.647901251s including waiting)

Normal Created 4m20s kubelet Created container nginx

Normal Started 4m20s kubelet Started container nginx

DR@DESKTOP-2PMUM4M MINGW64 /d/Mahfuz/Vagrant/kubernetes/yamls (master)

$ kubectl scale deploy nginx-deploy --replicas=2

deployment.apps/nginx-deploy scaled

DR@DESKTOP-2PMUM4M MINGW64 /d/Mahfuz/Vagrant/kubernetes/yamls (master)

$ kubectl get all -o wide

NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES

pod/nginx-deploy-68b77bf746-27bc9 1/1 Running 0 4m29s 192.168.77.133 kworker2 <none> <none>

pod/nginx-deploy-68b77bf746-8692l 1/1 Running 0 114s 192.168.77.134 kworker2 <none> <none>

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE SELECTOR

service/kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 47h <none>

NAME READY UP-TO-DATE AVAILABLE AGE CONTAINERS IMAGES SELECTOR

deployment.apps/nginx-deploy 2/2 2 2 4m29s nginx nginx run=nginx

NAME DESIRED CURRENT READY AGE CONTAINERS IMAGES SELECTOR

replicaset.apps/nginx-deploy-68b77bf746 2 2 2 4m29s nginx nginx pod-template-hash=68b77bf746,run=nginx

DR@DESKTOP-2PMUM4M MINGW64 /d/Mahfuz/Vagrant/kubernetes/yamls (master)

$ kubectl delete deploy nginx-deploy

deployment.apps "nginx-deploy" deleted

DR@DESKTOP-2PMUM4M MINGW64 /d/Mahfuz/Vagrant/kubernetes/yamls (master)

$ kubectl get all -o wide

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE SELECTOR

service/kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 47h <none>