

Terminal



Your Interactive Bash Terminal. A safe place to learn and execute commands.

```
$ minikube start --wait=false
* minikube v1.8.1 on Ubuntu 18.04
* Using the none driver based on user configuration
kubectl get nodes
kubectl run http --image=katacoda/docker-http-server:latest --replicas=1
kubectl get deployments
kubectl describe deployment http
kubectl expose deployment http --external-ip="172.17.0.40" --port=8000 --target-port=80
curl http://172.17.0.40:8000
* Running on localhost (CPUs=2, Memory=2460MB, Disk=145651MB) ...
* OS release is Ubuntu 18.04.4 LTS
kubectl run httpexposed --image=katacoda/docker-http-server:latest --replicas=1 --port=80 --hostport=8001
curl http://172.17.0.40:8001
kubectl get svc
* Preparing Kubernetes v1.17.3 on Docker 19.03.6 ...
  - kubelet.resolv-conf=/run/systemd/resolve/resolv.conf
* Launching Kubernetes ...
docker ps | grep httpexposed
* Enabling addons: default-storageclass, storage-provisioner
* Configuring local host environment ...
* Done! kubectl is now configured to use "minikube"
$ kubectl get nodes
NAME       STATUS    ROLES    AGE   VERSION
minikube   Ready     master   6s    v1.17.3
$ kubectl run http --image=katacoda/docker-http-server:latest --replicas=1
kubectl run --generator=deployment/apps.v1 is DEPRECATED and will be removed in a future version. Use kubectl run --generator=run-pod/v1 or kubectl c
reate instead.
deployment.apps/http created
$ kubectl get deployments
NAME    READY    UP-TO-DATE    AVAILABLE    AGE
http    0/1      0             0            0s
$ kubectl describe deployment http
Name:                   http
Namespace:              default
CreationTimestamp:      Mon, 22 Mar 2021 14:57:59 +0000
Labels:                 run=http
Annotations:            <none>
Selector:               run=http
Replicas:               1 desired | 0 updated | 0 total | 0 available | 0 unavailable
StrategyType:           RollingUpdate
MinReadySeconds:        0
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Selector:      run=http
Replicas:      1 desired | 0 updated | 0 total | 0 available | 0 unavailable
StrategyType:  RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels:  run=http
  Containers:
    http:
      Image:        katacoda/docker-http-server:latest
      Port:         <none>
      Host Port:    <none>
      Environment:  <none>
      Mounts:       <none>
      Volumes:      <none>
OldReplicaSets: <none>
NewReplicaSet:  <none>
Events:         <none>
$ kubectl expose deployment http --external-ip="172.17.0.40" --port=8000 --target-port=80
service/http exposed
$ curl http://172.17.0.40:8000
curl: (7) Failed to connect to 172.17.0.40 port 8000: Connection refused
$ kubectl run httpexposed --image=katacoda/docker-http-server:latest --replicas=1 --port=80 --hostport=8001
kubectl run --generator=deployment/apps.v1 is DEPRECATED and will be removed in a future version. Use kubectl run --generator=run-pod/v1 or kubectl c
reate instead.
deployment.apps/httpexposed created
$ curl http://172.17.0.40:8001
curl: (7) Failed to connect to 172.17.0.40 port 8001: Connection refused
$ kubectl get svc
NAME         TYPE          CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
http         ClusterIP     10.102.38.164   172.17.0.40      8000/TCP         0s
kubernetes   ClusterIP     10.96.0.1       <none>           443/TCP          5s
$ docker ps | grep httpexposed
$ kubectl scale --replicas=3 deployment http
deployment.apps/http scaled
$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
http-774bb756bb-fp9kb               0/1     Pending   0          2s
http-774bb756bb-lrr5q               0/1     Pending   0          2s
http-774bb756bb-x8rds               0/1     Pending   0          6s
httpexposed-68cb8c8d4-z5m4c         0/1     Pending   0          6s
$ kubectl describe svc http
Name:      http
```

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```
OldReplicaSets: <none>
NewReplicaSet: <none>
Events: <none>
$ kubectl expose deployment http --external-ip="172.17.0.40" --port=8000 --target-port=80
service/http exposed
$ curl http://172.17.0.40:8000
curl: (7) Failed to connect to 172.17.0.40 port 8000: Connection refused
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NAME                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
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$ kubectl scale --replicas=3 deployment http
deployment.apps/http scaled
$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
http-774bb756bb-fp9kb               0/1     Pending   0           2s
http-774bb756bb-lrr5q               0/1     Pending   0           2s
http-774bb756bb-x8rds               0/1     Pending   0           6s
httpexposed-68cb8c8d4-z5m4c         0/1     Pending   0           6s
$ kubectl describe svc http
Name:                 http
Namespace:            default
Labels:               run=http
Annotations:          <none>
Selector:             run=http
Type:                 ClusterIP
IP:                   10.102.38.164
External IPs:         172.17.0.40
Port:                 <unset> 8000/TCP
TargetPort:           80/TCP
Endpoints:            <none>
Session Affinity:     None
Events:               <none>
$ curl http://172.17.0.40:8000
<h1>This request was processed by host: http-774bb756bb-lrr5q</h1>
$
```