컴퓨터공학전공 B911151 이채린

(1)

노드들 상황과 pod들 상황

```
kubectl describe deployments hello-world
NAME READY UP-TO-DATE AVAILABLE
                                                 AGE
hello-world
              0/2
                                                 5s
                         hello-world
Name:
Namespace:
                         default
                         Wed, 17 May 2023 10:40:49 +0000
CreationTimestamp:
                        <none>
deployment.kubernetes.io/revision: 1
Labels:
Annotations:
                         run=load-balancer-example
Selector:
                         2 desired | 2 updated | 2 total | 0 available | 2 unavailable
RollingUpdate
Replicas:
StrategyType:
MinReadySeconds:
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
 Labels: run=load-balancer-example
 Containers:
  hello-world:
                  gcr.io/google-samples/node-hello:1.0
    Image:
                  8080/TCP
    Port:
    Host Port:
                  0/TCP
    Environment:
    Mounts:
                  <none>
 Volumes:
                  <none>
Conditions:
 Type
                 Status Reason
 Available
                 False MinimumReplicasUnavailable
 Progressing
                         ReplicaSetUpdated
                 True
OldReplicaSets:
                 <none>
                 hello-world-7dc9558f6d (2/2 replicas created)
NewReplicaSet:
  Type
                              Age From
 Normal ScalingReplicaSet_5s deployment-controller Scaled up replica set hello-world-7dc9558f6d to 2
```

```
ubuntu@ip-172-31-14-219:~$ kubectl get replicasets
kubectl describe replicasets
NAME
                         DESTRED
                                    CURRENT
                                              READY
                                                      AGE
hello-world-7dc9558f6d
                                                      43s
                                              2
                hello-world-7dc9558f6d
Name:
Namespace:
                default
Selector:
                pod-template-hash=7dc9558f6d,run=load-balancer-example
Labels:
                pod-template-hash=7dc9558f6d
                run=load-balancer-example
                deployment kubernetes.io/desired-replicas: 2
Annotations:
                deployment.kubernetes.io/max-replicas: 3
                deployment.kubernetes.io/revision: 1
Controlled By: Deployment/hello-world
                2 current / 2 desired
2 Running / 0 Waiting / 0 Succeeded / 0 Failed
Replicas:
Pods Status:
Pod Template:
 Labels: pod-template-hash=7dc9558f6d
           run=load-balancer-example
  Containers:
   hello-world:
                  gcr.io/google-samples/node-hello:1.0
    Image:
    Port:
                  8080/TCP
    Host Port:
                  0/TCP
    Environment:
                  <none>
    Mounts:
                  <none>
 Volumes:
                  <none>
Events:
  Type
          Reason
                            Age
                                   From
                                                          Message
  Normal SuccessfulCreate 44s
                                   replicaset-controller Created pod: hello-world-7dc9558f6d-vrl6h
         SuccessfulCreate
                            44s
                                  replicaset-controller Created pod: hello-world-7dc9558f6d-jrrv6
  Normal
```

ubuntu@ip-172-31-14-219:~\$ kubectl describe services example-service

Name: example-service

Namespace: default Labels: <none>
Annotations: <none>

Selector: run=load-balancer-example

Type: NodePort
IP Family Policy: SingleStack
IP Families: IPv4

IP: 10.98.127.46
IPs: 10.98.127.46
Port: <unset> 8080/TCP

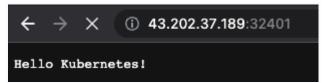
TargetPort: 8080/TCP NodePort: <unset> 32401/TCP

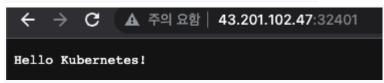
Endpoints: 10.244.1.2:8080,10.244.2.2:8080

Session Affinity: None
External Traffic Policy: Cluster
Events: <none>

ubuntu@ip-172-31-14-219:~\$ kubectl get pods --selector="run=load-balancer-example" --output=wide NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES 10.244.1.2 10.244.2.2 ip-172-31-5-117 ip-172-31-2-240 hello-world-7dc9558f6d-jrrv6 1/1 Running 89s <none> 0 <none> hello-world-7dc9558f6d-vrl6h 1/1 89s <none> Running

worker 노드들의 public IP 주소로 접근한 결과





(2)

replicas가 5일 때 노드들 상황과 pod들 상황 (다음페이지에 사진 존재)

name: hello-world namespace: default resourceVersion: "1831"

uid: da9fe926-0a14-43cf-9804-40225ff7b7d0

spec:

progressDeadlineSeconds: 600

replicas: 5 evisionHistoryLimit: 10

selector: matchLabels:

ubuntu@ip-172-31-14-219:~\$ kubectl describe services example-service

example-service

default Namespace: Labels: <none> Annotations: <none>

run=load-balancer-example Selector:

Type: NodePort IP Family Policy: SingleStack IP Families: IPv4 10.98.127.46 IP: 10.98.127.46 IPs: Port: <unset> 8080/TCP

TargetPort: 8080/TCP

NodePort: <unset> 32401/TCP

Endpoints: 10.244.1.2:8080,10.244.1.3:8080,10.244.1.4:8080 + 2 more...

Session Affinity: None External Traffic Policy: Cluster <none> Events:

ubuntu@ip-172-31-14-219:~\$ kubectl get replicasets

kubectl describe replicasets

NAME DESIRED CURRENT READY AGE hello-world-7dc9558f6d 5 5 5 63m

Name: hello-world-7dc9558f6d

default Namespace:

Selector: pod-template-hash=7dc9558f6d,run=load-balancer-exampl

Labels: pod-template-hash=7dc9558f6d

run=load-balancer-example

deployment.kubernetes.io/desired-replicas: 5 Annotations: deployment.kubernetes.io/max-replicas: 7

deployment.kubernetes.io/revision: 1

Controlled By: Deployment/hello-world Replicas: 5 current / 5 desired

5 Running / 0 Waiting / 0 Succeeded / 0 Failed Pods Status:

untu@ip-172-31-14-219:~\$ kubectl get pods --: ME READY STATUS --selector="run=load-balancer-example" --output=wide READY 1/1 1/1 NOMINATED NODE READINESS GATES NAME RESTARTS AGE NODE 118s ip-172-31-5-117 10.244.1.3 hello-world-7dc9558f6d-bprg9 Running 0 <none> <none> 0 hello-world-7dc9558f6d-gs2l2 10.244.2.6 ip-172-31-2-240 Running 85s <none> <none> ip-172-31-5-117 ip-172-31-5-117 hello-world-7dc9558f6d-jrrv6 64m 10.244.1.2 Running <none> <none> hello-world-7dc9558f6d-r6dxl Running 0 85s 10.244.1.4 <none> ip-172-31-2-240 hello-world-7dc9558f6d-xb7wc 1/1 Running 85s 10.244.2.5 <none> <none>

worker 노드들의 public IP 주소로 접근한 결과

