







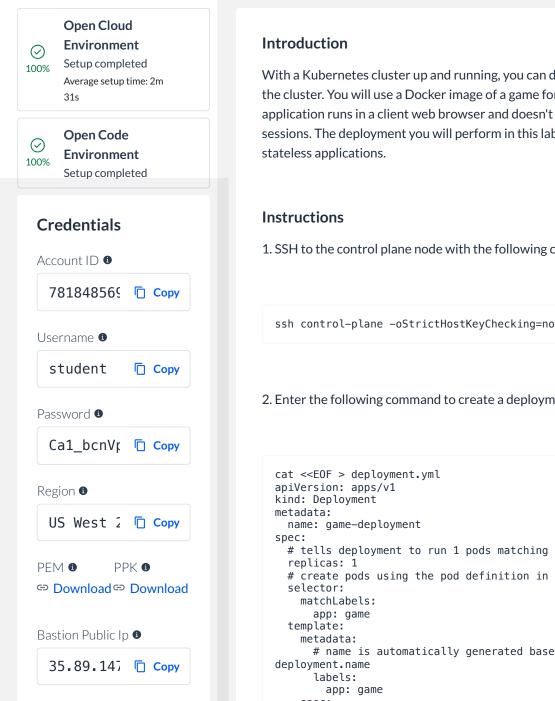


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Deploying a Stateless Application in the Kubernetes Cluster

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Cluster SSH 6

ssh ubunt

Introduction

With a Kubernetes cluster up and running, you can deploy an application in the cluster. You will use a Docker image of a game for the application. The application runs in a client web browser and doesn't store any state across sessions. The deployment you will perform in this lab step is effective for such stateless applications.

Instructions

1. SSH to the control plane node with the following command:

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2. Enter the following command to create a deployment resource file:

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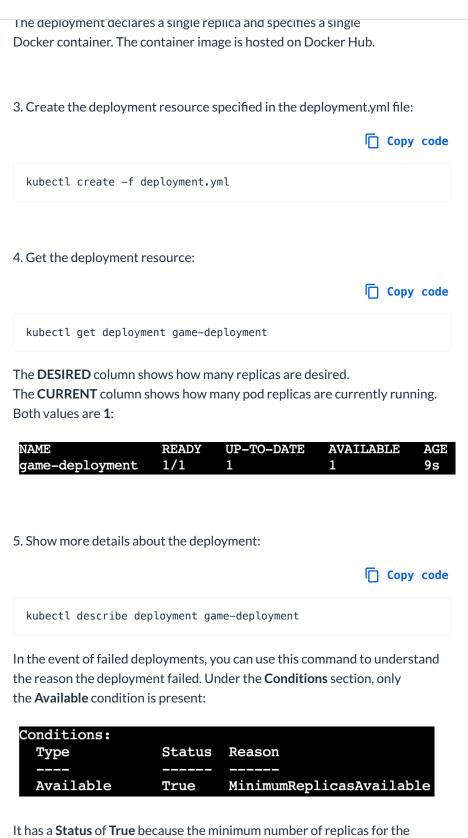
```
cat <<EOF > deployment.yml
apiVersion: apps/v1
kind: Deployment
metadata:
 name: game-deployment
 # tells deployment to run 1 pods matching the template
 replicas: 1
  # create pods using the pod definition in this template
  selector:
    matchLabels:
      app: game
  template:
    metadata:
     # name is automatically generated based on the
deployment.name
      labels:
                                                            Support
        app: game
    spec:
```

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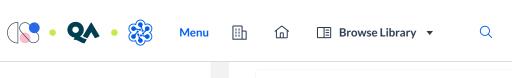
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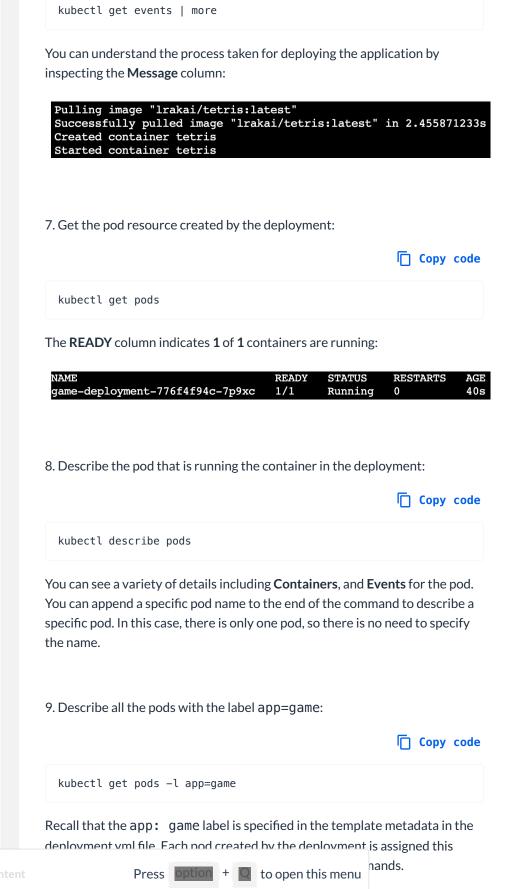


deployment are available. There would be other conditions if the deployment

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failed.



















```
cat <<EOF > service.yml
apiVersion: v1
kind: Service
metadata:
  name: game
  labels:
    app: game
spec:
  selector:
    # Use labels to select the pods to route traffic to
    app: game
  ports:
  - protocol: TCP
    port: 80
  # Allocate a port on each node in the cluster
  type: NodePort
E0F
```

A service is required to access the application from outside of the cluster.

11. Create the service:

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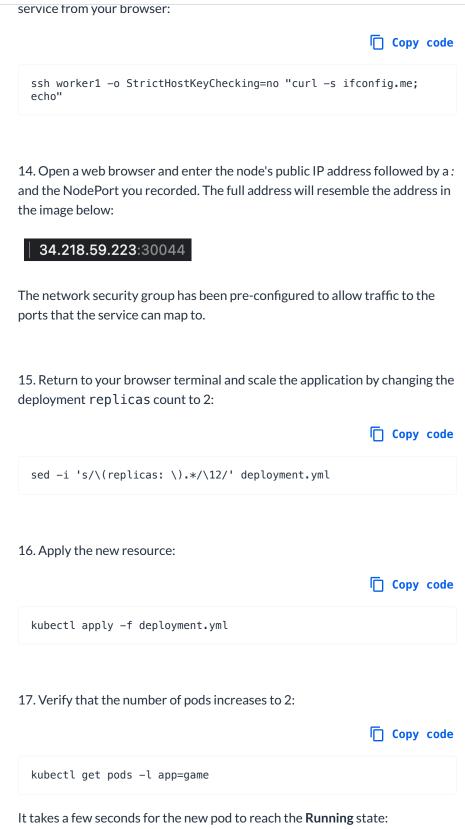
kubectl create -f service.yml

12. Describe the service and record what **NodePort** was allocated:

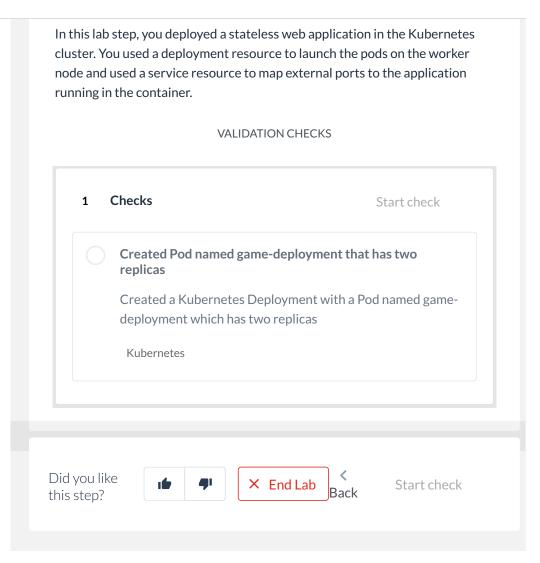
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kubectl describe services game

```
Name:
                            game
Namespace:
                            default
Labels:
                            app=game
Annotations:
                            <none>
Selector:
                            app=game
                            NodePort
Type:
IP Family Policy:
                            SingleStack
IP Families:
                            IPv4
IP:
                            10.98.113.146
IPs:
                            10.98.113.146
Port:
                            <unset>
                                     80/TCP
                            80/TCP
TargetPort:
                                     30044/TCP
```









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