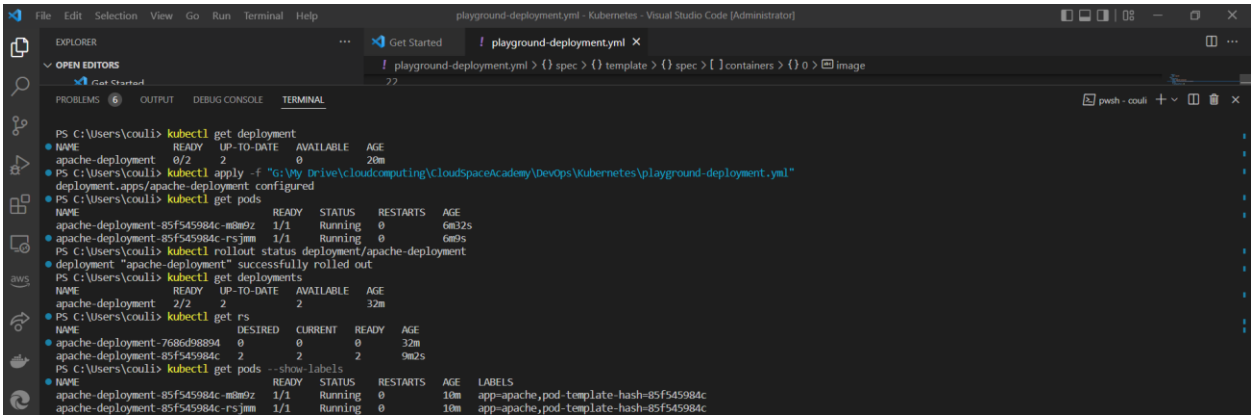
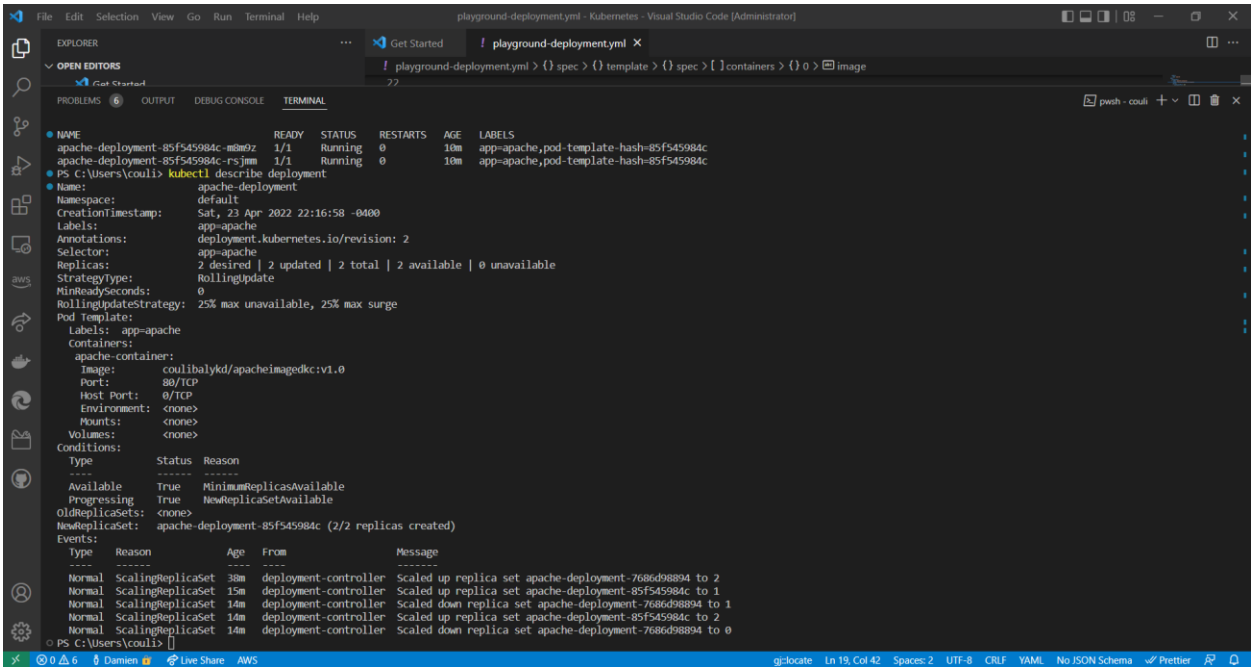
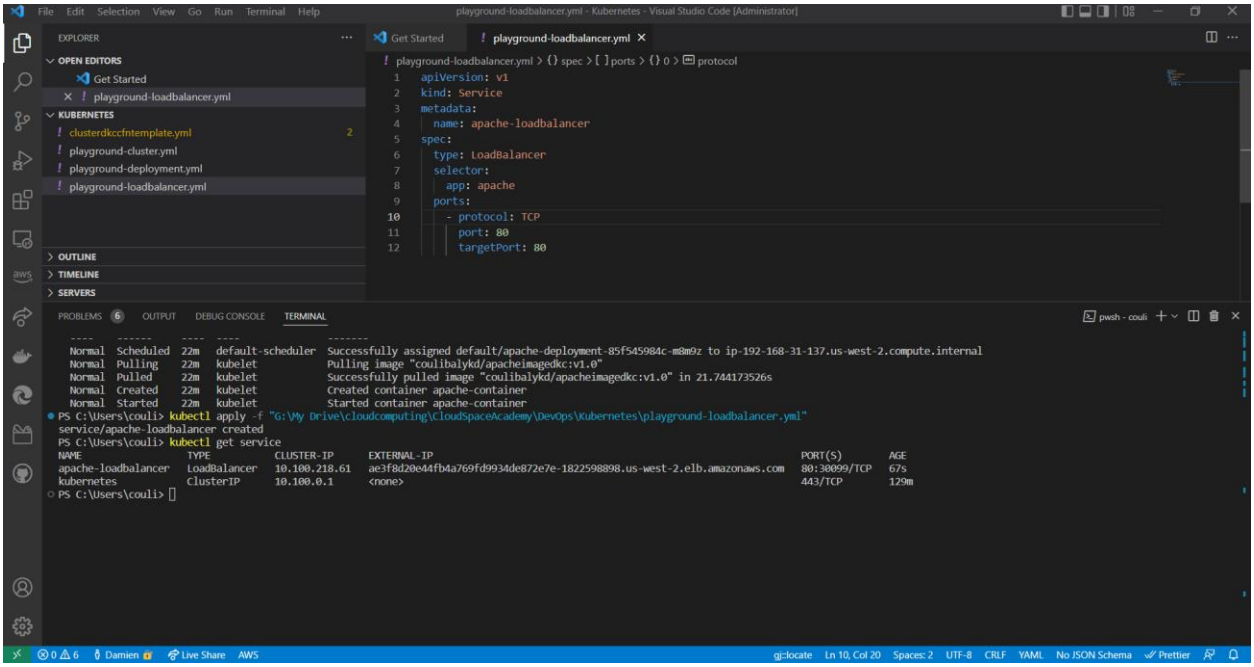
Deployment Screenshots

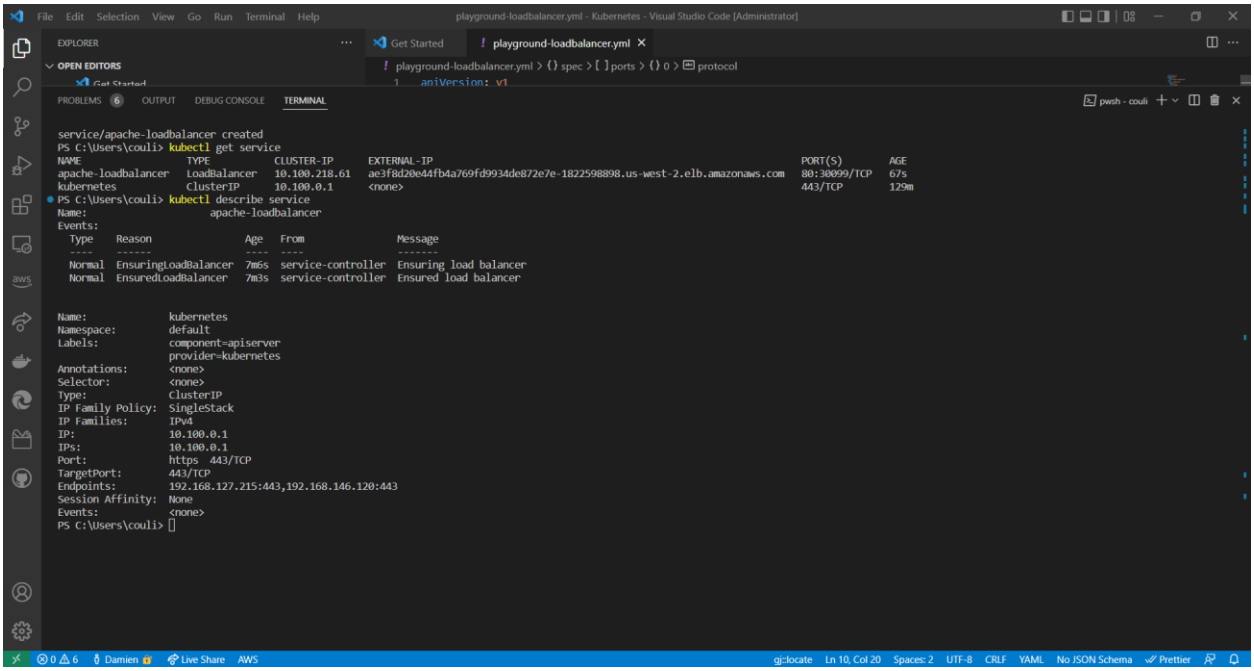


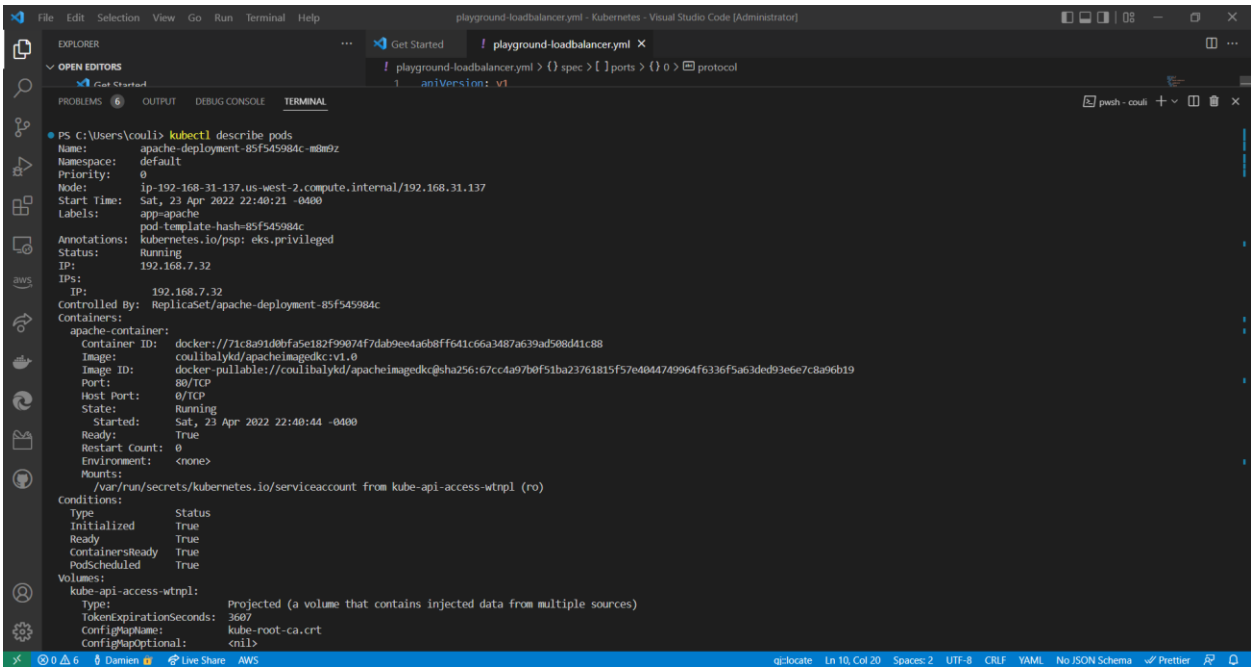
```
PS C:\Users\couli> kubectl get deployment
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
apache-deployment   0/2     2            0           20m
PS C:\Users\couli> kubectl apply -f "G:\My Drive\cloudcomputing\CloudSpaceAcademy\DevOps\Kubernetes\playground-deployment.yml"
deployment.apps/apache-deployment configured
PS C:\Users\couli> kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
apache-deployment-85f545984c-m8m9z  1/1     Running   0          6m32s
apache-deployment-85f545984c-rsjmm  1/1     Running   0          6m9s
PS C:\Users\couli> kubectl rollout status deployment/apache-deployment
deployment "apache-deployment" successfully rolled out
PS C:\Users\couli> kubectl get deployments
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
apache-deployment   2/2     2            2           32m
PS C:\Users\couli> kubectl get rs
NAME                          DESIRED   CURRENT   READY   AGE
apache-deployment-7686d98894  0         0         0       32m
apache-deployment-85f545984c  2         2         2       9m2s
PS C:\Users\couli> kubectl get pods --show-labels
NAME                                READY   STATUS    RESTARTS   AGE   LABELS
apache-deployment-85f545984c-m8m9z  1/1     Running   0          10m   app=apache,pod-template-hash=85f545984c
apache-deployment-85f545984c-rsjmm  1/1     Running   0          10m   app=apache,pod-template-hash=85f545984c
```

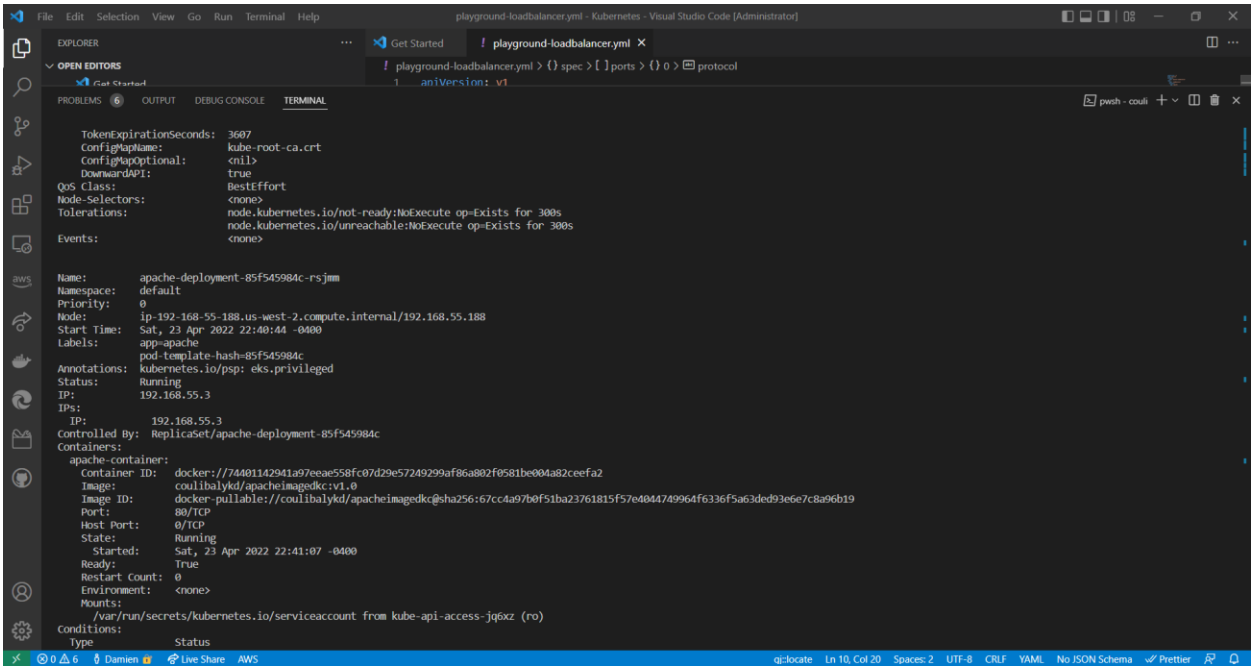


```
NAME                                READY   STATUS    RESTARTS   AGE   LABELS
apache-deployment-85f545984c-m8m9z  1/1     Running   0          10m   app=apache,pod-template-hash=85f545984c
apache-deployment-85f545984c-rsjmm  1/1     Running   0          10m   app=apache,pod-template-hash=85f545984c
PS C:\Users\couli> kubectl describe deployment
Name:                   apache-deployment
Namespace:              default
CreationTimestamp:      Sat, 23 Apr 2022 22:16:58 -0400
Labels:                 app=apache
Annotations:            deployment.kubernetes.io/revision: 2
Selector:               app=apache
Replicas:               2 desired | 2 updated | 2 total | 2 available | 0 unavailable
StrategyType:           RollingUpdate
MinReadySeconds:        0
RollingUpdateStrategy:  25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=apache
  Containers:
   apache-container:
    Image:        coulibalykd/apacheimagedkc:v1.0
    Port:         80/TCP
    Host Port:    0/TCP
    Environment:  <none>
    Mounts:       <none>
  Volumes:        <none>
Conditions:
  Type           Status  Reason
  ----           ------  ------
  Available      True    MinimumReplicasAvailable
  Progressing    True    NewReplicaSetAvailable
OldReplicaSets:  <none>
NewReplicaSet:   apache-deployment-85f545984c (2/2 replicas created)
Events:
  Type    Reason             Age   From                   Message
  ----    ------             ----  ----                   -------
  Normal  ScalingReplicaSet  38m   deployment-controller  Scaled up replica set apache-deployment-7686d98894 to 2
  Normal  ScalingReplicaSet  15m   deployment-controller  Scaled up replica set apache-deployment-85f545984c to 1
  Normal  ScalingReplicaSet  14m   deployment-controller  Scaled down replica set apache-deployment-7686d98894 to 1
  Normal  ScalingReplicaSet  14m   deployment-controller  Scaled up replica set apache-deployment-85f545984c to 2
  Normal  ScalingReplicaSet  14m   deployment-controller  Scaled down replica set apache-deployment-7686d98894 to 0
PS C:\Users\couli>
```


playground-loadbalancer.yml - Kubernetes - Visual Studio Code [Administrator]
EXPLORER
OPEN EDITORS
Get Started
playground-loadbalancer.yml
KUBERNETES
clusterdkccfntemplate.yml
playground-cluster.yml
playground-deployment.yml
playground-loadbalancer.yml
OUTLINE
TIMELINE
SERVERS
playground-loadbalancer.yml > {} spec > [ ] ports > {} 0 > protocol
1 apiVersion: v1
2 kind: Service
3 metadata:
4 name: apache-loadbalancer
5 spec:
6 type: LoadBalancer
7 selector:
8 app: apache
9 ports:
10 - protocol: TCP
11 port: 80
12 targetPort: 80
PROBLEMS 6
OUTPUT
DEBUG CONSOLE
TERMINAL
Normal Scheduled 22m default-scheduler Successfully assigned default/apache-deployment-85f545984c-m8m9z to ip-192-168-31-137.us-west-2.compute.internal
Normal Pulling 22m kubelet Pulling image "coulibalykd/apacheimagedkc:v1.0"
Normal Pulled 22m kubelet Successfully pulled image "coulibalykd/apacheimagedkc:v1.0" in 21.744173526s
Normal Created 22m kubelet Created container apache-container
Normal Started 22m kubelet Started container apache-container
PS C:\Users\couli> kubectl apply -f "G:\My Drive\cloudcomputing\CloudSpaceAcademy\DevOps\Kubernetes\playground-loadbalancer.yml"
service/apache-loadbalancer created
PS C:\Users\couli> kubectl get service
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
apache-loadbalancer LoadBalancer 10.100.218.61 ae3f8d20e44fb4a769fd9934de872e7e-1822598898.us-west-2.elb.amazonaws.com 80:30099/TCP 67s
kubernetes ClusterIP 10.100.0.1 <none> 443/TCP 129m
PS C:\Users\couli>
pwsh - couli
Damien
Live Share
AWS
Ln 10, Col 20
Spaces: 2
UTF-8
CRLF
YAML
No JSON Schema
Prettier


playground-loadbalancer.yml - Kubernetes - Visual Studio Code [Administrator]
service/apache-loadbalancer created
PS C:\Users\couli> kubectl get service
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
apache-loadbalancer LoadBalancer 10.100.218.61 ae3f8d20e44fb4a769fd9934de872e7e-1822598898.us-west-2.elb.amazonaws.com 80:30099/TCP 67s
kubernetes ClusterIP 10.100.0.1 <none> 443/TCP 129m
PS C:\Users\couli> kubectl describe service
Name: apache-loadbalancer
Events:
Type Reason Age From Message
Normal EnsuringLoadBalancer 7m6s service-controller Ensuring load balancer
Normal EnsuredLoadBalancer 7m3s service-controller Ensured load balancer
Name: kubernetes
Namespace: default
Labels: component=apiserver
provider=kubernetes
Annotations: <none>
Selector: <none>
Type: ClusterIP
IP Family Policy: SingleStack
IP Families: IPv4
IP: 10.100.0.1
IPs: 10.100.0.1
Port: https 443/TCP
TargetPort: 443/TCP
Endpoints: 192.168.127.215:443,192.168.146.120:443
Session Affinity: None
Events: <none>
PS C:\Users\couli>
pwsh - couli
Damien
Live Share
AWS
Ln 10, Col 20
Spaces: 2
UTF-8
CRLF
YAML
No JSON Schema
Prettier


File Edit Selection View Go Run Terminal Help
playground-loadbalancer.yml - Kubernetes - Visual Studio Code [Administrator]
EXPLORER
OPEN EDITORS
Get Started
playground-loadbalancer.yml
playground-loadbalancer.yml > {} spec > [ ] ports > {} 0 > protocol
1 apiVersion: v1
PROBLEMS 6
OUTPUT
DEBUG CONSOLE
TERMINAL
pwsh - couli
PS C:\Users\couli> kubectl describe pods
Name: apache-deployment-85f545984c-m8m9z
Namespace: default
Priority: 0
Node: ip-192-168-31-137.us-west-2.compute.internal/192.168.31.137
Start Time: Sat, 23 Apr 2022 22:40:21 -0400
Labels: app=apache
pod-template-hash=85f545984c
Annotations: kubernetes.io/psp: eks.privileged
Status: Running
IP: 192.168.7.32
IPs:
IP: 192.168.7.32
Controlled By: ReplicaSet/apache-deployment-85f545984c
Containers:
apache-container:
Container ID: docker://71c8a91d0bfa5e182f99074f7dab9ee4a6b8ff641c66a3487a639ad508d41c88
Image: coulibalykd/apacheimagedkc:v1.0
Image ID: docker-pullable://coulibalykd/apacheimagedkc@sha256:67cc4a97b0f51ba23761815f57e4044749964f6336f5a63ded93e6e7c8a96b19
Port: 80/TCP
Host Port: 0/TCP
State: Running
Started: Sat, 23 Apr 2022 22:40:44 -0400
Ready: True
Restart Count: 0
Environment: <none>
Mounts:
/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-wtnpl (ro)
Conditions:
Type Status
Initialized True
Ready True
ContainersReady True
PodScheduled True
Volumes:
kube-api-access-wtnpl:
Type: Projected (a volume that contains injected data from multiple sources)
TokenExpirationSeconds: 3607
ConfigMapName: kube-root-ca.crt
ConfigMapOptional: <nil>
0 6 Damien Live Share AWS
qj:locate Ln 10, Col 20 Spaces: 2 UTF-8 CRLF YAML No JSON Schema Prettier


File Edit Selection View Go Run Terminal Help
playground-loadbalancer.yml - Kubernetes - Visual Studio Code [Administrator]
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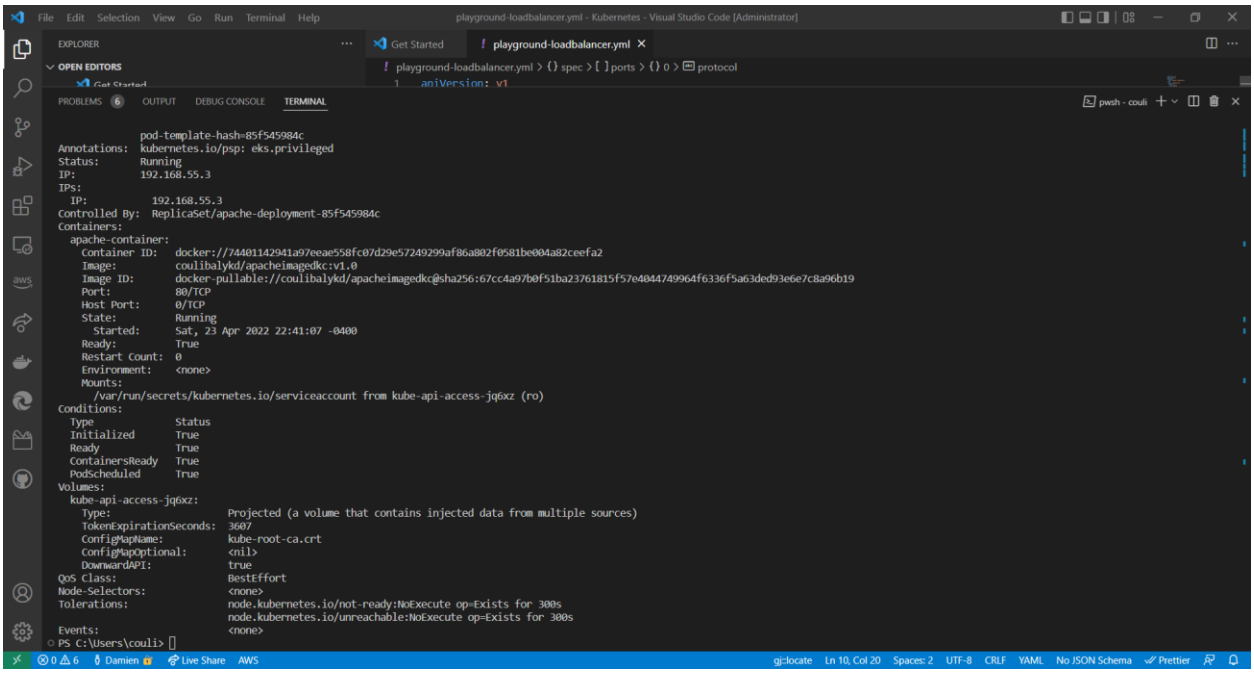
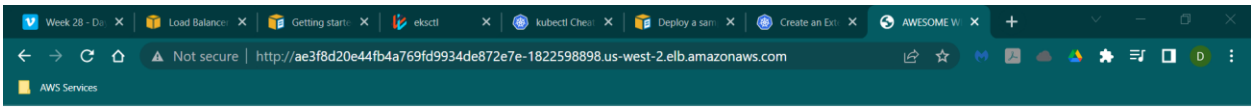
playground-loadbalancer.yml > {} spec > [ ] ports > {} 0 > protocol
1 apiVersion: v1
PROBLEMS 6
OUTPUT
DEBUG CONSOLE
TERMINAL
pwsh - couli
TokenExpirationSeconds: 3607
ConfigMapName: kube-root-ca.crt
ConfigMapOptional: <nil>
DownwardAPI: true
QoS Class: BestEffort
Node-Selectors: <none>
Tolerations: node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events: <none>
Name: apache-deployment-85f545984c-rsjmm
Namespace: default
Priority: 0
Node: ip-192-168-55-188.us-west-2.compute.internal/192.168.55.188
Start Time: Sat, 23 Apr 2022 22:40:44 -0400
Labels: app=apache
pod-template-hash=85f545984c
Annotations: kubernetes.io/psp: eks.privileged
Status: Running
IP: 192.168.55.3
IPs:
IP: 192.168.55.3
Controlled By: ReplicaSet/apache-deployment-85f545984c
Containers:
apache-container:
Container ID: docker://74401142941a97eeae558fc07d29e57249299af86a802f0581be004a82ceefa2
Image: coulibalykd/apacheimagedkc:v1.0
Image ID: docker-pullable://coulibalykd/apacheimagedkc@sha256:67cc4a97b0f51ba23761815f57e4044749964f6336f5a63ded93e6e7c8a96b19
Port: 80/TCP
Host Port: 0/TCP
State: Running
Started: Sat, 23 Apr 2022 22:41:07 -0400
Ready: True
Restart Count: 0
Environment: <none>
Mounts:
/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-jq6xz (ro)
Conditions:
Type Status
0 6 Damien Live Share AWS
qj:locate Ln 10, Col 20 Spaces: 2 UTF-8 CRLF YAML No JSON Schema Prettier





Welcome to Our Website!

Damien requested a GREEN color on his website that we deploy in a docker container.

Website Version: 3.0

WELCOME TO OUR AWESOME WEBSITE!!!