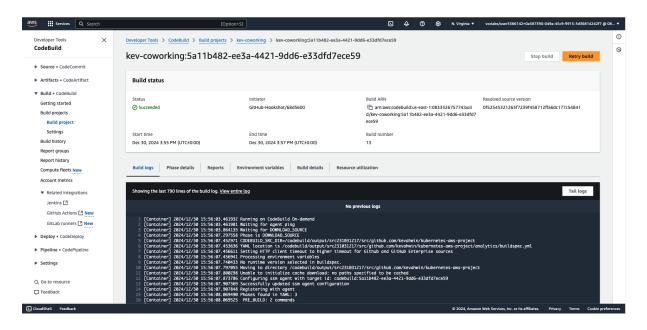
Project 3 Submission

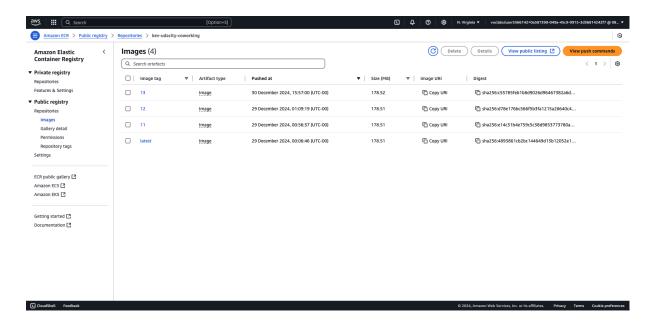
GitHub Repo: https://github.com/kevahwin/kubernetes-aws-project

Dockerfile: https://github.com/kevahwin/kubernetes-aws-project/blob/main/analytics/Dockerfile

Screenshot of AWS CodeBuild pipeline



Screenshot of AWS ECR repository for the application's repository



Screenshot of `kubectl get svc` and `kubectl get pods` before coworking deployment

```
kevahwin@MacBookPro kubernetes-aws-project % kubectl get svc
NAME
                                CLUSTER-IP
                     TYPE
                                                 EXTERNAL-IP
                                                                PORT(S)
                                                                           AGE
                     ClusterIP
                                 10.100.0.1
                                                                443/TCP
                                                                           6h48m
postgresql-service
                     ClusterIP
                                 10.100.48.158
                                                                5432/TCP
                                                                           5h20m
                                                 <none>
kevahwin@MacBookPro kubernetes-aws-project % kubectl get pods
NAME
                              READY
                                      STATUS
                                                 RESTARTS
                                                            AGE
postgresgl-7fbffd5bff-hdjjg
                              1/1
                                      Running
                                                            5h21m
kevahwin@MacBookPro kubernetes-aws-project %
```

Screenshot of 'kubectl get svc'

kevahwin@MacBookPro deployment % kubectl get svc					
NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
coworking	LoadBalancer	10.100.129.148	aa305e3ffb61a46e190f025e69af44ef-1224298312.us-east-1.elb.amazonaws.com	5153:31941/TCP	12s
kubernetes	ClusterIP	10.100.0.1	<none></none>	443/TCP	6h56m
postgresql-service	ClusterIP	10.100.48.158	<none></none>	5432/TCP	5h29m

Screenshot of 'kubectl get pods'

Screenshot of `kubectl describe svc <DATABASE_SERVICE_NAME>`

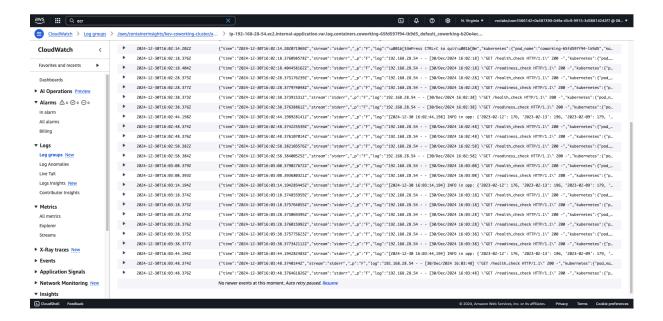
```
kevahwin@MacBookPro deployment % kubectl describe svc postgresql-service
Name:
                           postgresql-service
Namespace:
                           default
Labels:
                          <none>
Annotations:
                          <none>
Selector:
                          app=postgresql
                          ClusterIP
Type:
IP Family Policy:
                          SingleStack
                          IPv4
IP Families:
IP:
                          10.100.48.158
IPs:
                          10.100.48.158
Port:
                          <unset> 5432/TCP
                          5432/TCP
TargetPort:
Endpoints:
                          192.168.2.93:5432
Session Affinity:
                          None
Internal Traffic Policy:
                          Cluster
Events:
                          <none>
```

Screenshot of `kubectl describe deployment <SERVICE_NAME>`

```
evahwin@MacBookPro kubernetes-aws-project % kubectl describe deployment coworking
                                           coworking
Namespace:
                                          default
                                          Sun, 29 Dec 2024 00:10:13 +0000 name=coworking deployment.kubernetes.io/revision: 2
CreationTimestamp:
Labels:
Annotations:
Selector:
                                          service=coworking
1 desired | 1 updated | 1 total | 1 available | 0 unavailable
RollingUpdate
Replicas:
StrategyType: RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
Labels: service=coworking
    Containers:
     coworking:
                            public.ecr.aws/l2t4g5t0/kev-udacity-coworking:11
       Image:
Port:
       Host Port: <none>
      Liveness: http-get http://:5153/health_check delay=5s timeout=2s period=10s #success=1 #failure=3
Readiness: http-get http://:5153/readiness_check delay=5s timeout=5s period=10s #success=1 #failure=3
       Environment:
          DB_USERNAME: <set to the key 'POSTGRES_USER' in secret 'postgresql-secret'> Optional: false
DB_PASSWORD: <set to the key 'POSTGRES_PASSWORD' in secret 'postgresql-secret'> Optional: false
DB_HOST: <set to the key 'DB_HOST' of config map 'postgres-config'> Optional: false
DB_PORT: <set to the key 'DB_PORT' of config map 'postgres-config'> Optional: false
DB_NAME: <set to the key 'DB_NAME' of config map 'postgres-config'> Optional: false
      Mounts:
                                   <none>
   Volumes:
Node-Selectors:
                                   <none>
                                 <none>
    Tolerations:
                                   <none>
Conditions:
                             Status Reason
   Type
                          True MinimumReplicasAvailable
True NewReplicaSetAvailable
   Available
Progressing True NewReplicaSetAvailable
OldReplicaSets: coworking-cc6db8b8f (0/0 replicas created)
NewReplicaSet: coworking-65fd597f94 (1/1 replicas created)
Events:
    Туре
                  Reason
   Normal ScalingReplicaSet 58m
Normal ScalingReplicaSet 8m5s
                                                               deployment-controller Scaled up replica set coworking-cc6db8b8f to 1 deployment-controller Scaled up replica set coworking-65fd597f94 to 1
                 ScalingReplicaSet
                                                   7m47s
                                                               deployment-controller
                                                                                                        Scaled down replica set coworking-cc6db8b8f to 0 from 1
```

All Kubernetes config files used for deployment (ie YAML files): https://github.com/kevahwin/kubernetes-aws-project/tree/main/deployment

Screenshot of AWS CloudWatch logs for the application



`README.md` file in your solution that serves as documentation for your user to detail how your deployment process works:

https://github.com/kevahwin/kubernetes-aws-

project/blob/main/deployment/README.md