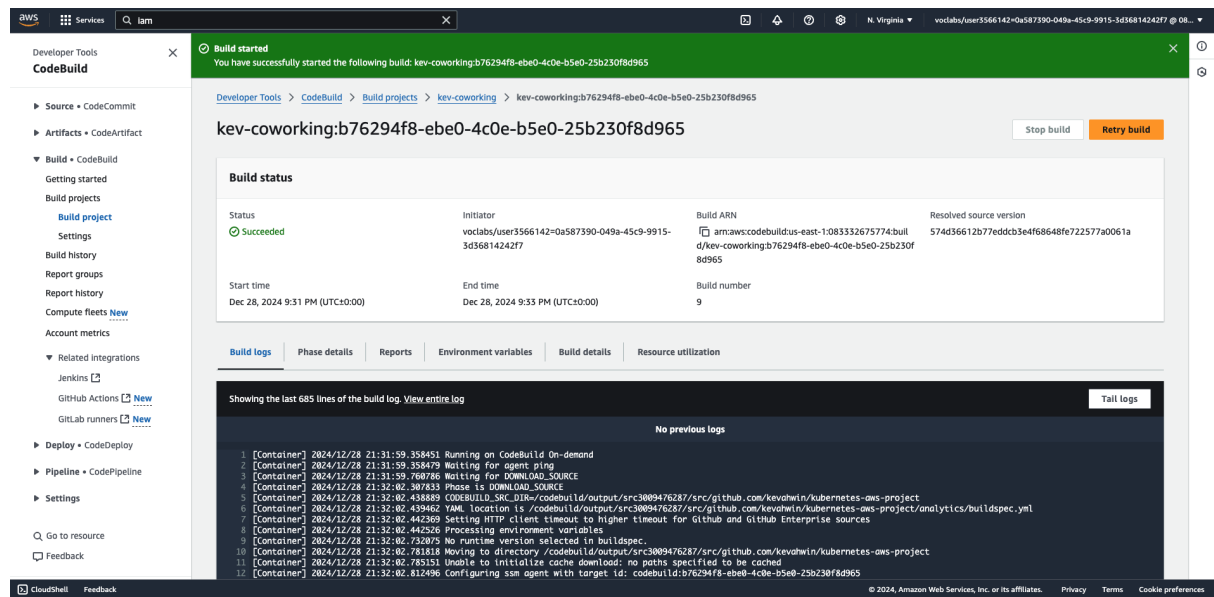


# Project 3 Submission

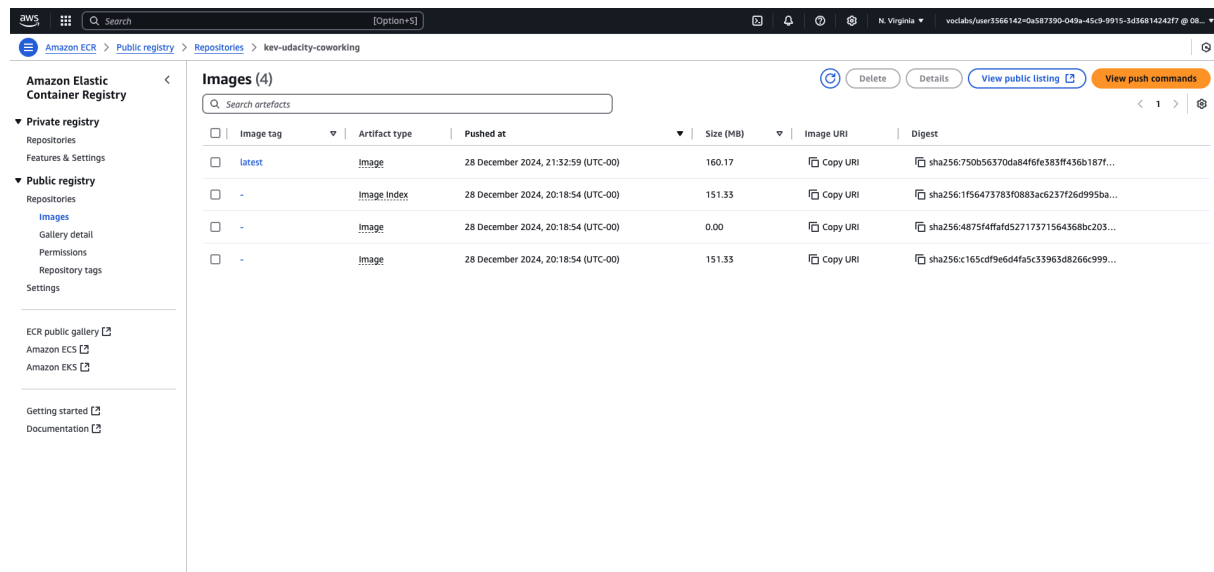
GitHub Repo: <https://github.com/kevahwin/kubernetes-aws-project>

Dockerfile: <https://github.com/kevahwin/kubernetes-aws-project/blob/main/analytcs/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                TYPE        CLUSTER-IP    EXTERNAL-IP    PORT(S)    AGE
kubernetes           ClusterIP   10.100.0.1     <none>         443/TCP    6h48m
postgresql-service   ClusterIP   10.100.48.158  <none>         5432/TCP   5h20m
kevahwin@MacBookPro kubernetes-aws-project % kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
postgresql-7fbffd5bff-hdjfq        1/1     Running   0          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>         443/TCP    6h56m
postgresql-service   ClusterIP   10.100.48.158  <none>         5432/TCP   5h29m
```

## Screenshot of `kubectl get pods`

```
kevahwin@MacBookPro kubernetes-aws-project % kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
coworking-65fd597f94-rdc6m         1/1     Running   0          74s
postgresql-7fbffd5bff-fnr52        1/1     Running   0          18m
kevahwin@MacBookPro kubernetes-aws-project %
```

## 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
Type:                ClusterIP
IP Family Policy:    SingleStack
IP Families:         IPv4
IP:                  10.100.48.158
IPs:                 10.100.48.158
Port:                <unset> 5432/TCP
TargetPort:          5432/TCP
Endpoints:           192.168.2.93:5432
Session Affinity:    None
Internal Traffic Policy: Cluster
Events:              <none>
```

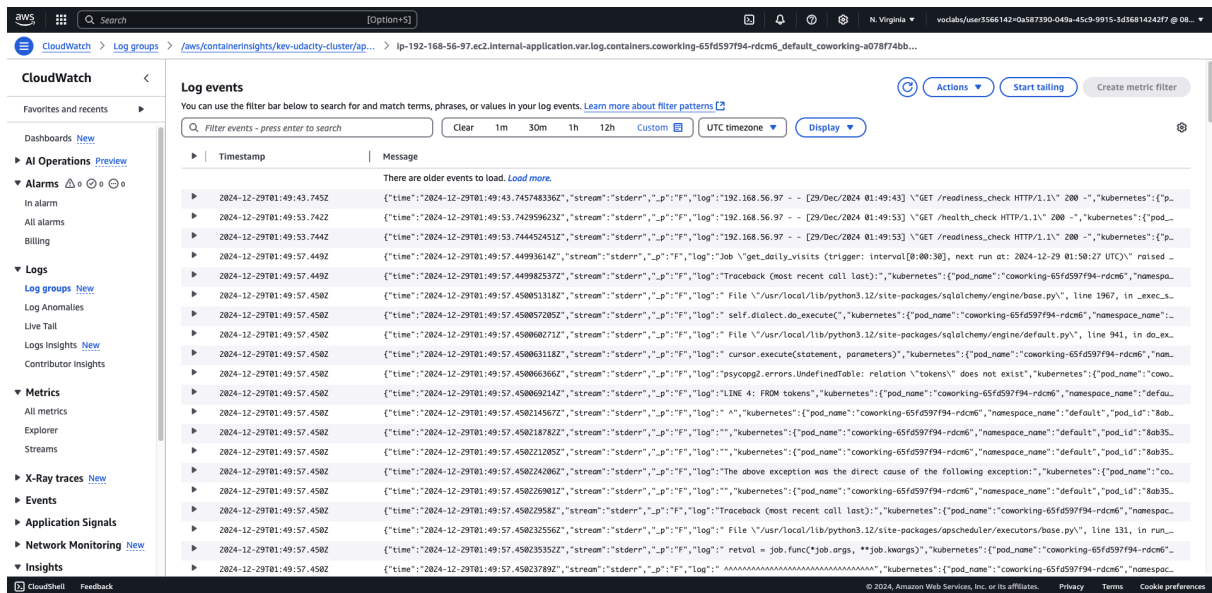
## Screenshot of `kubectl describe deployment <SERVICE\_NAME>`

```
kevahwin@MacBookPro kubernetes-aws-project % kubectl describe deployment coworking
Name: coworking
Namespace: default
CreationTimestamp: Sun, 29 Dec 2024 00:10:13 +0000
Labels: name=coworking
Annotations: deployment.kubernetes.io/revision: 2
Selector: service=coworking
Replicas: 1 desired | 1 updated | 1 total | 1 available | 0 unavailable
StrategyType: RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels: service=coworking
  Containers:
    coworking:
      Image: public.ecr.aws/l2t4g5t0/kev-udacity-coworking:11
      Port: <none>
      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: <none>
  Node-Selectors: <none>
  Tolerations: <none>
Conditions:
  Type           Status  Reason
  ----           -
  Available      True    MinimumReplicasAvailable
  Progressing    True    NewReplicaSetAvailable
OldReplicaSets: coworking-cc6db8b8f (0/0 replicas created)
NewReplicaSet:  coworking-65fd597f94 (1/1 replicas created)
Events:
  Type           Reason             Age    From                      Message
  ----           -
  Normal         ScalingReplicaSet   58m    deployment-controller     Scaled up replica set coworking-cc6db8b8f to 1
  Normal         ScalingReplicaSet   8m5s   deployment-controller     Scaled up replica set coworking-65fd597f94 to 1
  Normal         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>