

Viral Joshi

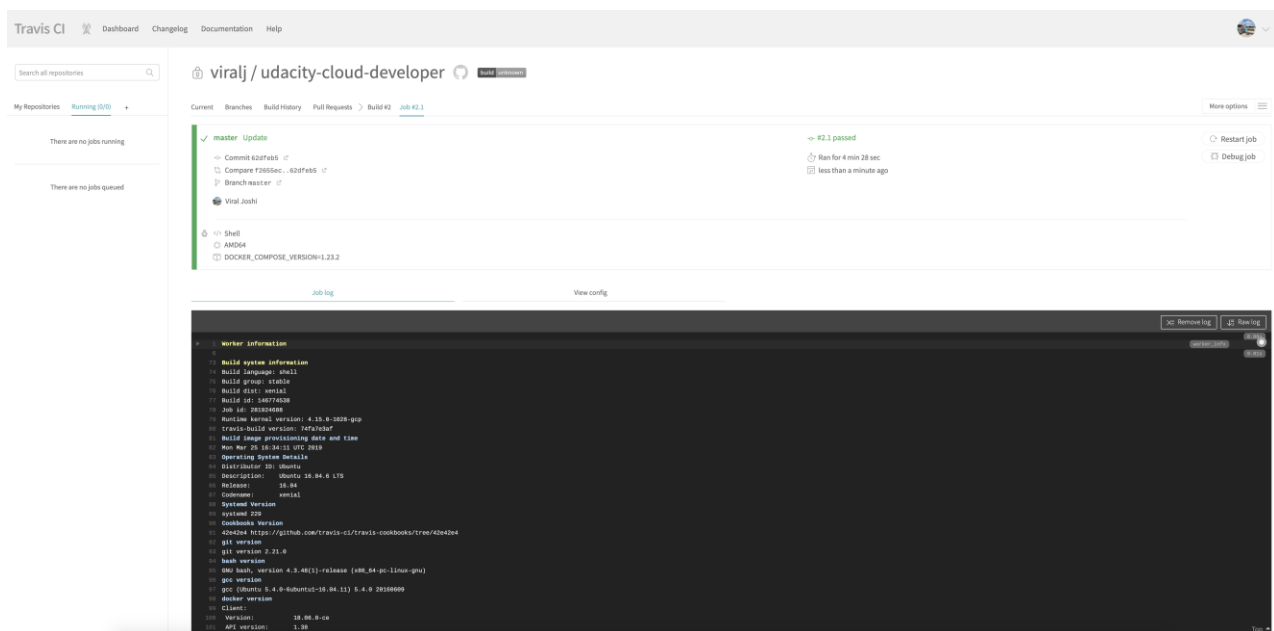
Github repo: <https://github.com/viralj>

Docker repo: <https://hub.docker.com/u/viraljoshi23/>

You can find detailed instructions of how to run the project in Github instructions.

Following are screen shots of requirements

Travis CI successful build



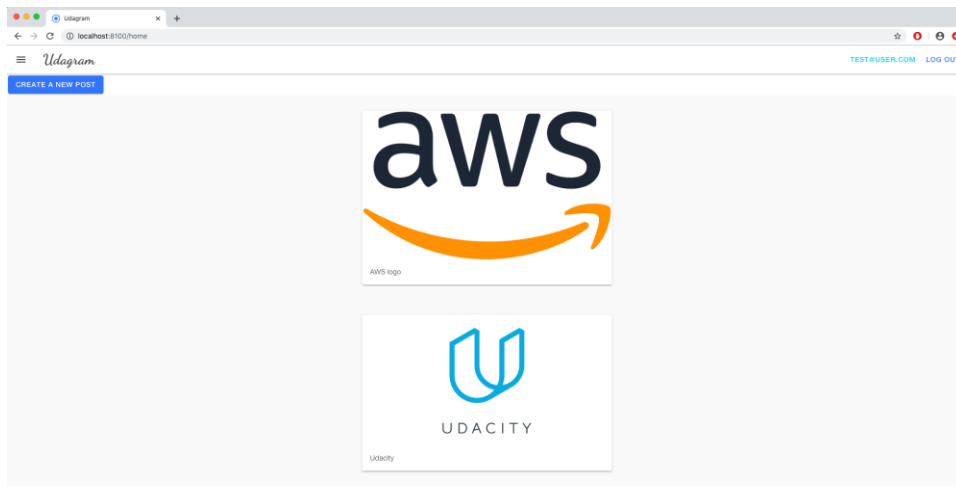
The screenshot shows the Travis CI interface for the repository `viralj/udacity-cloud-developer`. The build status is **passed** (green checkmark). The build log shows the following steps:

- Commit 630f8b5
- Compare 630f8b5...630f8b5
- Branch master
- Job ID: 20230400
- Runtime kernel version: 4.15.0-1028-gcp
- Travis build version: 14f4b4b0
- Build image provisioning time and time
- Mon Mar 25 18:34:11 UTC 2020
- Operating System Details
- Distributor ID: Ubuntu
- Description: Ubuntu 18.04.0 LTS
- Release: 18.04
- Codename: bionic
- Systemd Version
- systemd 239
- Container Version
- 426d04 https://github.com/travis-ci/travis-ci-cookbooks/tree/426d04
- git version
- git version 2.21.0
- bash version
- GNU bash, version 4.4.19(1)-release (x86_64-pc-linux-gnu)
- gcc version
- gcc (Ubuntu 5.4.0-6ubuntu2~18.04.1) 5.4.0 20160909
- docker version
- Client:
- Version: 18.06.0-ce
- API version: 1.38

Kubernetes pods that are running initially

```
Virals-iMac:k8s viral$ kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
backend-feed-7dc4878c65-g2x2w       1/1     Running   0           79s
backend-feed-7dc4878c65-v6zxsn      1/1     Running   0           79s
backend-user-57676c764f-5gcbs       1/1     Running   0           78s
backend-user-57676c764f-jstrp       1/1     Running   0           78s
frontend-7fc5668b68-grmdk          1/1     Running   0           79s
frontend-7fc5668b68-sww8p          1/1     Running   0           79s
reverseproxy-6f6c65b4fd-2qhc5      1/1     Running   0           78s
reverseproxy-6f6c65b4fd-d4v7r      1/1     Running   0           78s
Virals-iMac:k8s viral$
```

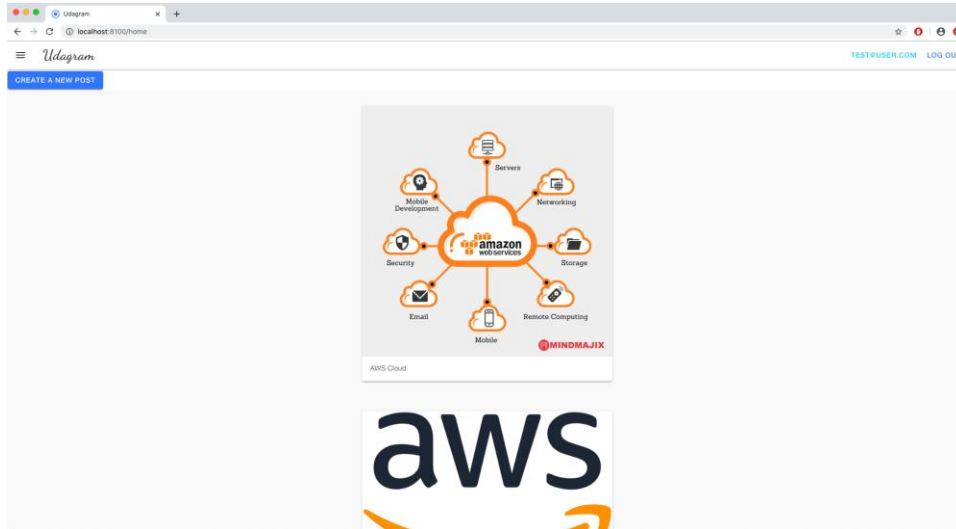
Project running after deployment



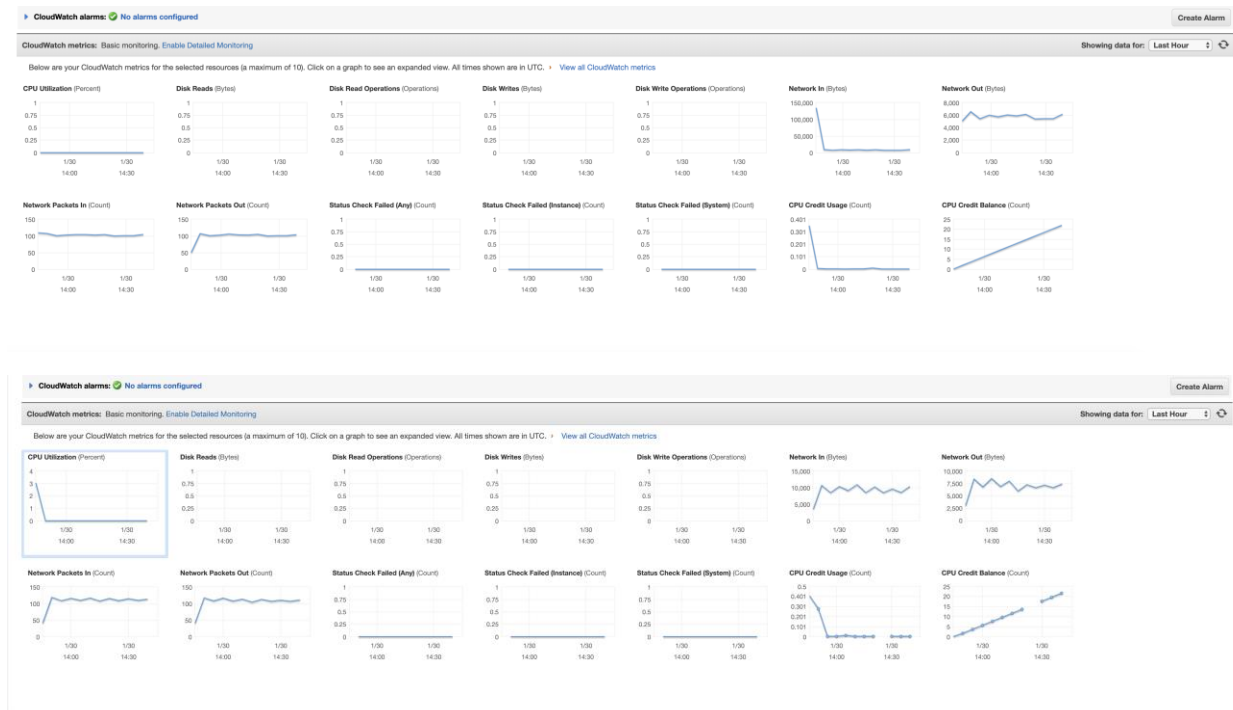
Kubernetes new pod backend-feed-b deployment and running containers

```
Virals-iMac:k8s viral$ kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
backend-feed-7dc4878c65-g2x2w      1/1     Running   0           15m
backend-feed-7dc4878c65-v6zxn      1/1     Running   0           15m
backend-user-57676c764f-5gcb5      1/1     Running   0           15m
backend-user-57676c764f-jstrp      1/1     Running   0           15m
frontend-7fc5668b68-grmdk         1/1     Running   0           15m
frontend-7fc5668b68-sww8p         1/1     Running   0           15m
reverseproxy-6f6c65b4fd-2qhc5     1/1     Running   0           15m
reverseproxy-6f6c65b4fd-d4v7r     1/1     Running   0           15m
Virals-iMac:k8s viral$ kubectl apply -f backend-feed-b-deployment.yaml
deployment.extensions/backend-feed-b created
Virals-iMac:k8s viral$ kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
backend-feed-7dc4878c65-g2x2w      1/1     Running   0           16m
backend-feed-7dc4878c65-v6zxn      1/1     Running   0           16m
backend-feed-b-5449d469f4-tm41z    1/1     Running   0            3s
backend-user-57676c764f-5gcb5      1/1     Running   0           16m
backend-user-57676c764f-jstrp      1/1     Running   0           16m
frontend-7fc5668b68-grmdk         1/1     Running   0           16m
frontend-7fc5668b68-sww8p         1/1     Running   0           16m
reverseproxy-6f6c65b4fd-2qhc5     1/1     Running   0           16m
reverseproxy-6f6c65b4fd-d4v7r     1/1     Running   0           16m
Virals-iMac:k8s viral$
```

Project running after deployment of new pod



AWS CloudWatch metrics for all three EC2 instances



CloudWatch alarms No alarms configured

Create Alarm

CloudWatch metrics: Basic monitoring. [Enable Detailed Monitoring](#)

Showing data for: Last Hour

Below are your CloudWatch metrics for the selected resources (a maximum of 10). Click on a graph to see an expanded view. All times shown are in UTC. [View all CloudWatch metrics](#)

CPU Utilization (Percent)



Disk Reads (Bytes)



Disk Read Operations (Operations)



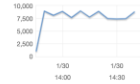
Disk Writes (Bytes)



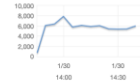
Disk Write Operations (Operations)



Network In (Bytes)



Network Out (Bytes)



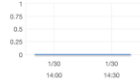
Network Packets In (Count)



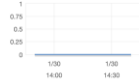
Network Packets Out (Count)



Status Check Failed (Any) (Count)



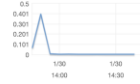
Status Check Failed (Instance) (Count)



Status Check Failed (System) (Count)



CPU Credit Usage (Count)



CPU Credit Balance (Count)

