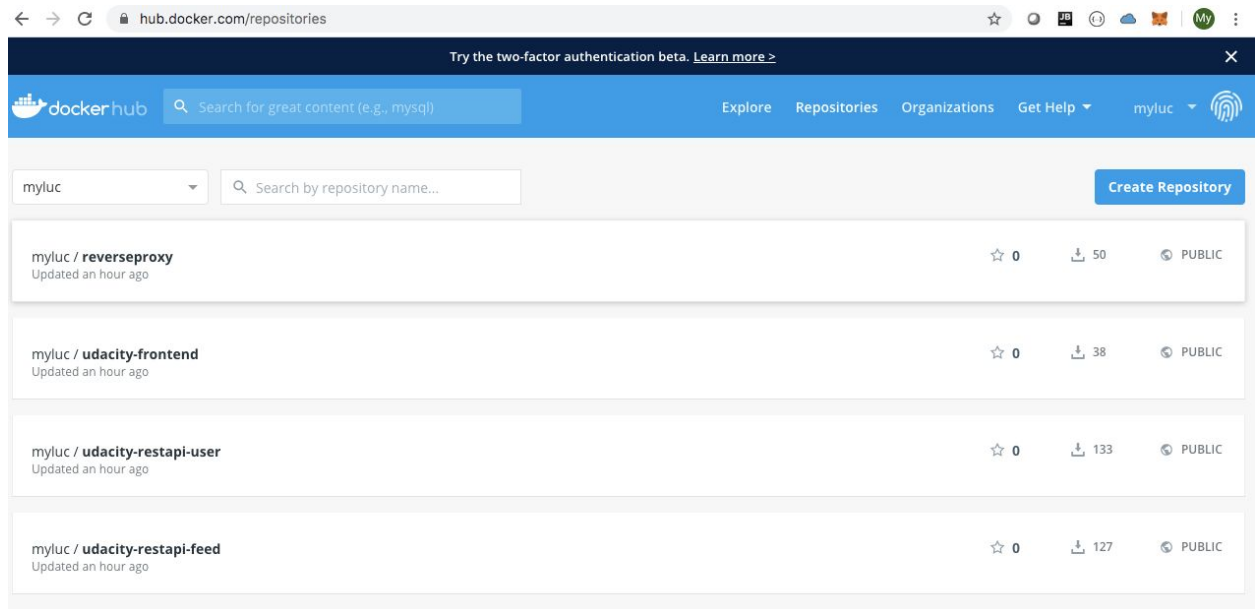


- Dockerhub:

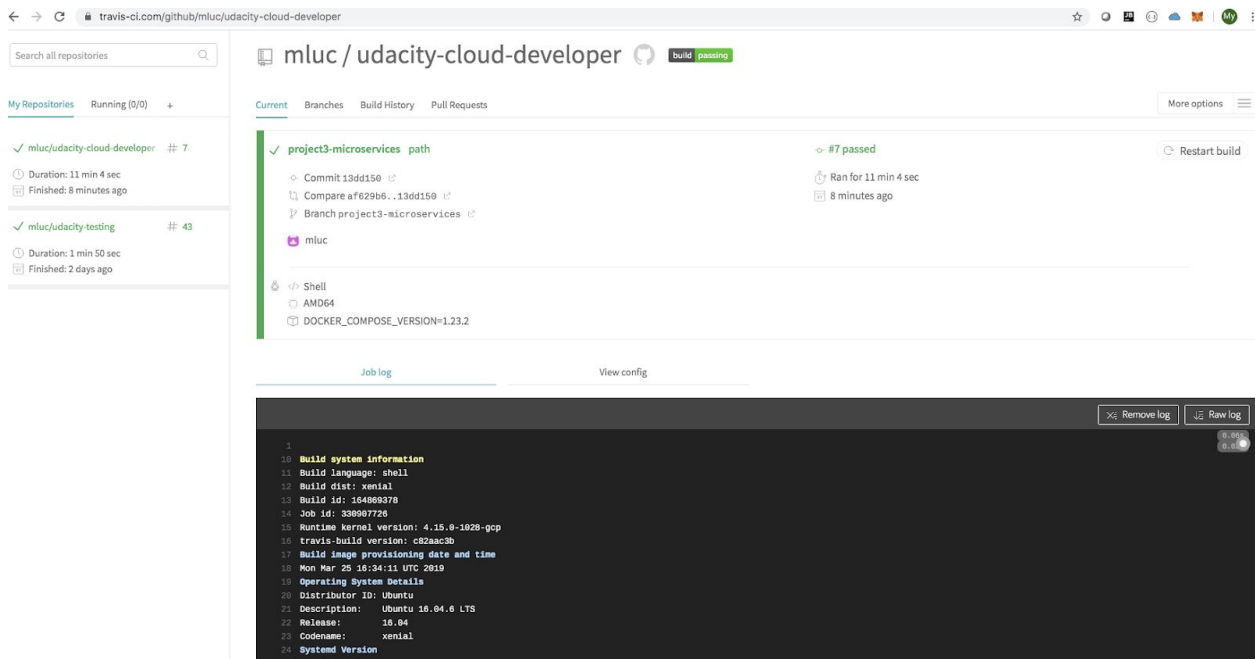


The screenshot shows the Docker Hub interface for the user 'myluc'. The page displays a list of repositories under the 'myluc' namespace. The repositories are:

- myluc / reverseproxy**: Updated an hour ago, 0 stars, 50 downloads, PUBLIC.
- myluc / udacity-frontend**: Updated an hour ago, 0 stars, 38 downloads, PUBLIC.
- myluc / udacity-restapi-user**: Updated an hour ago, 0 stars, 133 downloads, PUBLIC.
- myluc / udacity-restapi-feed**: Updated an hour ago, 0 stars, 127 downloads, PUBLIC.

The interface includes a search bar, a 'Create Repository' button, and navigation links for Explore, Repositories, Organizations, and Get Help.

- Travis-ci: (see <https://api.travis-ci.com/v3/job/330907726/log.txt> for detail)



The screenshot shows the Travis CI build page for the repository 'mluc / udacity-cloud-developer'. The build status is 'passed'.

Build Details:

- Project: project3-microservices path
- Commit: 13dd150
- Branch: project3-microservices
- Language: Shell
- Architecture: AMD64
- Environment: DOCKER_COMPOSE_VERSION=1.23.2

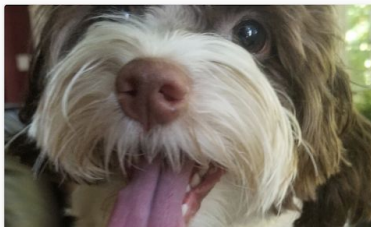
Build Log:

```
1
2
3
4
5
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8
9
10 Build system information
11 Build language: shell
12 Build dist: xenial
13 Build id: 164809378
14 Job id: 330907726
15 Runtime kernel version: 4.15.0-1028-gcp
16 Travis-build version: c82aac3b
17 Build image provisioning date and time
18 Mon Mar 25 16:13:41 UTC 2019
19 Operating System Details
20 Distributor ID: Ubuntu
21 Description: Ubuntu 16.04.6 LTS
22 Release: 16.04
23 Codename: xenial
24 System Version
```

CREATE A NEW POST



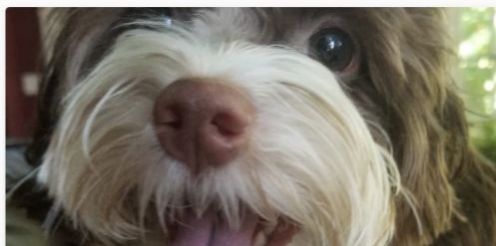
pineapple martini



CREATE A NEW POST



pineapple martini



- Rolling update without downtime:

Roberts-MBP:k8s myluc\$ kubectl get pods					
NAME	READY	STATUS	RESTARTS	AGE	
backend-feed-5d8854ddd6-2rvq4	0/1	ContainerCreating	0	14s	
backend-feed-5d8854ddd6-v9952	1/1	Running	0	21s	
backend-feed-6994cf777b-mfkcp	1/1	Running	0	57m	
backend-user-6968469794-jlxw6	0/1	ContainerCreating	0	0s	
backend-user-6968469794-mx5nt	1/1	Running	0	9s	
backend-user-857559f868-qhtt5	1/1	Running	0	57m	
backend-user-857559f868-rvcpg	1/1	Terminating	0	57m	
frontend-679db64ffc-c9qrk	1/1	Running	0	42m	
frontend-679db64ffc-zv69n	1/1	Running	0	42m	
reverseproxy-557c7c7d56-49w4f	1/1	Running	0	57m	
reverseproxy-557c7c7d56-l2zkt	1/1	Running	0	57m	
Roberts-MBP:k8s myluc\$ kubectl get pods					
NAME	READY	STATUS	RESTARTS	AGE	
backend-feed-5d8854ddd6-2rvq4	1/1	Running	0	16s	
backend-feed-5d8854ddd6-v9952	1/1	Running	0	23s	
backend-feed-6994cf777b-mfkcp	0/1	Terminating	0	57m	
backend-user-6968469794-jlxw6	0/1	ContainerCreating	0	2s	
backend-user-6968469794-mx5nt	1/1	Running	0	11s	
backend-user-857559f868-qhtt5	1/1	Running	0	57m	
backend-user-857559f868-rvcpg	0/1	Terminating	0	57m	
frontend-5cc8cd695-46cbg	0/1	ContainerCreating	0	0s	
frontend-679db64ffc-c9qrk	1/1	Running	0	42m	
frontend-679db64ffc-zv69n	1/1	Running	0	42m	
reverseproxy-557c7c7d56-49w4f	1/1	Running	0	57m	
reverseproxy-557c7c7d56-l2zkt	1/1	Running	0	57m	
Roberts-MBP:k8s myluc\$ kubectl get pods					
NAME	READY	STATUS	RESTARTS	AGE	
backend-feed-5d8854ddd6-2rvq4	1/1	Running	0	17s	
backend-feed-5d8854ddd6-v9952	1/1	Running	0	24s	
backend-user-6968469794-jlxw6	0/1	ContainerCreating	0	3s	
backend-user-6968469794-mx5nt	1/1	Running	0	12s	
backend-user-857559f868-qhtt5	1/1	Running	0	57m	
backend-user-857559f868-rvcpg	0/1	Terminating	0	57m	
frontend-5cc8cd695-46cbg	0/1	ContainerCreating	0	1s	
frontend-679db64ffc-c9qrk	1/1	Running	0	42m	
frontend-679db64ffc-zv69n	1/1	Running	0	42m	
reverseproxy-557c7c7d56-49w4f	1/1	Running	0	57m	
reverseproxy-557c7c7d56-l2zkt	1/1	Running	0	57m	

```

Roberts-MBP:k8s myluc$ kubectl get all
NAME                                READY    STATUS    RESTARTS   AGE
pod/backend-feed-5d8854ddd6-2rvq4   1/1      Running   0           3m49s
pod/backend-feed-5d8854ddd6-v9952   1/1      Running   0           3m56s
pod/backend-user-6968469794-jlxw6   1/1      Running   0           3m35s
pod/backend-user-6968469794-mx5nt   1/1      Running   0           3m44s
pod/frontend-5cc8cd695-46cbg        1/1      Running   0           3m33s
pod/frontend-5cc8cd695-6ndlh        1/1      Running   0           3m29s
pod/reverseproxy-85dbfb5998-7zd2z   1/1      Running   0           3m22s
pod/reverseproxy-85dbfb5998-vbmxx   1/1      Running   0           3m20s

NAME                                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
service/backend-feed               ClusterIP           10.100.149.169  <none>           8080/TCP          4h55m
service/backend-user               ClusterIP           10.100.69.28    <none>           8080/TCP          4h55m
service/frontend                   LoadBalancer       10.100.178.26   a5701791095804ba0a139b8b6c83cdc6-643514599.us-east-1.elb.amazonaws.com 8100:30451/TCP 46m
service/kubernetes                 ClusterIP           10.100.0.1      <none>           443/TCP           6h16m
service/reverseproxy               LoadBalancer       10.100.35.214   a727e8f85a7a143229a165c4f855a717-1857238864.us-east-1.elb.amazonaws.com 8080:30036/TCP 4h55m

NAME                                READY    UP-TO-DATE    AVAILABLE    AGE
deployment.apps/backend-feed        2/2      2              2            4h55m
deployment.apps/backend-user        2/2      2              2            4h55m
deployment.apps/frontend             2/2      2              2            46m
deployment.apps/reverseproxy        2/2      2              2            4h55m

NAME                                DESIRED    CURRENT    READY    AGE
replicaset.apps/backend-feed-5d8854ddd6 2          2          2        3m56s
replicaset.apps/backend-feed-6994cf777b 0          0          0        61m
replicaset.apps/backend-feed-7746b9d645 0          0          0        4h55m
replicaset.apps/backend-user-6865ddb6cf 0          0          0        4h55m
replicaset.apps/backend-user-6968469794 2          2          2        3m44s
replicaset.apps/backend-user-857559f868 0          0          0        61m
replicaset.apps/frontend-5cc8cd695       2          2          2        3m33s
replicaset.apps/frontend-679db64ffc      0          0          0        46m
replicaset.apps/reverseproxy-557c7c7d56 0          0          0        60m
replicaset.apps/reverseproxy-7558457cb7 0          0          0        4h55m
replicaset.apps/reverseproxy-85dbfb5998 2          2          2        3m22s

```

- A/B deployment: (use canary deployment) two versions of the same application run simultaneously

```

Roberts-MBP:k8s myluc$ kubectl get pods
NAME                                READY    STATUS    RESTARTS   AGE
backend-feed-5d8854ddd6-2rvq4       1/1      Running   0           52m
backend-feed-5d8854ddd6-v9952       1/1      Running   0           52m
backend-user-6968469794-jlxw6       1/1      Running   0           52m
backend-user-6968469794-mx5nt       1/1      Running   0           52m
frontend-795c6dc949-wdf6d           1/1      Running   0           7m47s
frontend-795c6dc949-zkh8n           1/1      Running   0           7m50s
frontend-canary-9889ccdfc-7vxrt     1/1      Running   0           49s
frontend-canary-9889ccdfc-j5h86     1/1      Running   0           49s
reverseproxy-85dbfb5998-7zd2z       1/1      Running   0           52m
reverseproxy-85dbfb5998-vbmxx       1/1      Running   0           52m

```



```
Roberts-MBP:~ myluc$ kubectl get pods
NAME                                READY    STATUS    RESTARTS   AGE
backend-feed-5d8854dd6-2rvq4        1/1      Running   0           56m
backend-feed-5d8854dd6-v9952        1/1      Running   0           56m
backend-user-6968469794-jlw6        1/1      Running   0           56m
backend-user-6968469794-m5nt        1/1      Running   0           56m
frontend-795c6dc949-wdf6d           1/1      Running   0           11m
frontend-795c6dc949-zkh8n           1/1      Running   0           11m
frontend-canary-9889ccffc-7vzrt      1/1      Running   0           4m23s
Frontend-canary-9889ccffc-7vzrt      1/1      Running   0           4m23s
reverseproxy-85dbfb5998-7zd2z       1/1      Running   0           55m
reverseproxy-85dbfb5998-vbmox       1/1      Running   0           55m


Roberts-MBP:~ myluc$ kubectl describe pod/frontend-795c6dc949-wdf6d
Name:                frontend-795c6dc949-wdf6d
Namespace:            default
Priority:              0
Node:                 ip-192-168-22-156.ec2.internal/192.168.22.156
Start Time:           Sat, 09 May 2020 00:15:28 -0500
Labels:               api=external
                     pod-template-hash=795c6dc949
                     service=frontend
                     track=stable
Annotations:          kubernetes.io/psp: eks.privileged
Status:               Running
IP:                   192.168.24.84
IPs:                  <none>
Controlled By:        ReplicaSet/frontend-795c6dc949
Containers:
  frontend:
    Container ID:   docker://0fd0de53bc7ef3f0cca5db7951b6539e5495c736641e8f58155f35dca2c0e
    Image:           myluc/udacity-frontend:v1
    Image ID:        docker-pullable://myluc/udacity-frontend@sha256:b6b1e6387df2d59962195ff336c4d876ecf33eb998314b4ef7e6475858
    Port:            80/TCP
    Host Port:       80/TCP
    State:           Running
    Started:         Sat, 09 May 2020 00:15:38 -0500
    Ready:           True
    Restart Count:    0
    Limits:          cpu: 500m

Last login: Sat May 9 00:24:12 on tty009
Roberts-MBP:~ myluc$ kubectl get pods
NAME                                READY    STATUS    RESTARTS   AGE
backend-feed-5d8854dd6-2rvq4        1/1      Running   0           56m
backend-feed-5d8854dd6-v9952        1/1      Running   0           57m
backend-user-6968469794-jlw6        1/1      Running   0           56m
backend-user-6968469794-m5nt        1/1      Running   0           56m
frontend-795c6dc949-wdf6d           1/1      Running   0           11m
frontend-795c6dc949-zkh8n           1/1      Running   0           12m
Frontend-canary-9889ccffc-7vzrt      1/1      Running   0           4m59s
Frontend-canary-9889ccffc-7vzrt      1/1      Running   0           4m59s
reverseproxy-85dbfb5998-7zd2z       1/1      Running   0           56m
reverseproxy-85dbfb5998-vbmox       1/1      Running   0           56m


Roberts-MBP:~ myluc$ kubectl describe pod/frontend-canary-9889ccffc-7vzrt
Name:                frontend-canary-9889ccffc-7vzrt
Namespace:            default
Priority:              0
Node:                 ip-192-168-61-21.ec2.internal/192.168.61.21
Start Time:           Sat, 09 May 2020 00:22:26 -0500
Labels:               api=external
                     pod-template-hash=9889ccffc
                     service=frontend
                     track=canary
Annotations:          kubernetes.io/psp: eks.privileged
Status:               Running
IP:                   192.168.62.24
IPs:                  <none>
Controlled By:        ReplicaSet/frontend-canary-9889ccffc
Containers:
  frontend:
    Container ID:   docker://157cbfff2e0b8f46e382edbd7d54bc84956bed47fa174605a065f48a26ab90
    Image:           myluc/udacity-frontend:v1
    Image ID:        docker-pullable://myluc/udacity-frontend@sha256:8ae4697c7ad1d42c89f557b08c691c2c19e2f7d0d2e3a124b56821da1
    Port:            80/TCP
    Host Port:       80/TCP
    State:           Running
    Started:         Sat, 09 May 2020 00:22:28 -0500
    Ready:           True
    Restart Count:    0
    Limits:          cpu: 500m
```

Udagram8

CREATE A NEW POST




pineapple martinis



Udagram7

CREATE A NEW POST



pineapple martinis

