



Screenshot of DockerHub shows the images.

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tranloi20001007 ▼





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Screenshot of the Travis CI interface shows a successful build and deploy job

Travis CI

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	Tranloi2k udagram-api-user	DEFAULT BRANCH -o- main passed	LAST BUILD ✓ #8 passed	LOG SCAN ✓ passed	COMMIT -o- f6a7106 	FINISHED  12 minutes ago	
	Tranloi2k udagram-frontend	DEFAULT BRANCH -o- main passed	LAST BUILD ✓ #10 passed	LOG SCAN ✓ passed	COMMIT -o- ab3bad1 	FINISHED  17 hours ago	
	Tranloi2k udagram-api-feed	DEFAULT BRANCH -o- main passed	LAST BUILD ✓ #11 passed	LOG SCAN ✓ passed	COMMIT -o- a8103a7 	FINISHED  17 hours ago	
	Tranloi2k reverseproxy	DEFAULT BRANCH -o- main passed	LAST BUILD ✓ #2 passed	LOG SCAN ✓ passed	COMMIT -o- d710377 	FINISHED  6 days ago	

A screenshots of kubectl commands show the Frontend and API projects deployed in Kubernetes.

```
● tranloi@MSI:/mnt/c/Users/Admin/Desktop/Project3/deployment$ kubectl get deployments
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
backend-feed  2/2     2            2           22m
backend-user  2/2     2            2           22m
frontend      2/2     2            2           53m
reverseproxy  2/2     2            2           130m

● tranloi@MSI:/mnt/c/Users/Admin/Desktop/Project3/deployment$ kubectl get pods
NAME                                                  READY   STATUS    RESTARTS   AGE
backend-feed-648654cfd-67n49                        1/1     Running   0          22m
backend-feed-648654cfd-sn9dr                        1/1     Running   0          22m
backend-user-75cd5c464d-4dx8l                       1/1     Running   0          22m
backend-user-75cd5c464d-j58dg                       1/1     Running   0          22m
frontend-69cf8fd859-cfm5s                           1/1     Running   0          53m
frontend-69cf8fd859-gbqxt                           1/1     Running   0          53m
reverseproxy-5d9c499f45-cv7zx                      1/1     Running   3 (130m ago)  130m
reverseproxy-5d9c499f45-xkdkk                      1/1     Running   3 (130m ago)  130m

● tranloi@MSI:/mnt/c/Users/Admin/Desktop/Project3/deployment$ kubectl get svc
NAME          TYPE          CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
backend-feed  ClusterIP     10.100.168.225  <none>           8080/TCP         130m
backend-user  ClusterIP     10.100.85.93    <none>           8080/TCP         130m
frontend      ClusterIP     10.100.86.68    <none>           8100/TCP         53m
kubernetes    ClusterIP     10.100.0.1      <none>           443/TCP          131m
publicfrontend  LoadBalancer 10.100.202.30   a1ea7b8de45fa4cda91e620a52b9a238-1320739254.us-east-1.elb.amazonaws.com 80:32185/TCP    53m
publicreverseproxy LoadBalancer 10.100.100.118 a3fddcd8dab1d419a9b5471570251efc-1032574995.us-east-1.elb.amazonaws.com 8080:32239/TCP  125m
reverseproxy   ClusterIP     10.100.119.92   <none>           8080/TCP         130m
```

The output of `kubectl describe services` does not expose any sensitive strings such as database passwords.

```
tranloi@MSI:/mnt/c/Users/Admin/Desktop/Project3/deployment$ kubectl describe services backend-feed
Name: backend-feed
Namespace: default
Labels: service=backend-feed
Annotations: <none>
Selector: service=backend-feed
Type: ClusterIP
IP Family Policy: SingleStack
IP Families: IPv4
IP: 10.100.168.225
IPs: 10.100.168.225
Port: 8080 8080/TCP
TargetPort: 8080/TCP
Endpoints: 172.31.1.154:8080,172.31.25.26:8080
Session Affinity: None
Events: <none>
tranloi@MSI:/mnt/c/Users/Admin/Desktop/Project3/deployment$ kubectl describe services backend-user
Name: backend-user
Namespace: default
Labels: service=backend-user
Annotations: <none>
Selector: service=backend-user
Type: ClusterIP
IP Family Policy: SingleStack
IP Families: IPv4
IP: 10.100.85.93
IPs: 10.100.85.93
Port: 8080 8080/TCP
TargetPort: 8080/TCP
Endpoints: 172.31.12.38:8080,172.31.26.66:8080
Session Affinity: None
Events: <none>
```

Screenshot of Kubernetes cluster of command `kubectl describe hpa` has autoscaling configured with CPU metrics.

```
tranloi@MSI:/mnt/c/Users/Admin/Desktop/Project3/deployment$ kubectl describe hpa
Warning: autoscaling/v2beta2 HorizontalPodAutoscaler is deprecated in v1.23+, unavailable in v1.26+; use autoscaling/v2 HorizontalPodAutoscaler
Name: backend-user
Namespace: default
Labels: <none>
Annotations: <none>
CreationTimestamp: Tue, 04 Apr 2023 13:45:17 +0700
Reference: Deployment/backend-user
Metrics: ( current / target )
  resource cpu on pods  (as a percentage of request): <unknown> / 80%
Min replicas: 2
Max replicas: 3
Deployment pods: 0 current / 0 desired
Events: <none>
```

Screenshot of one of the backend API pod logs indicates user activity that is logged when api/v0/users/auth/login is made.

```
tranloi@MSI:/mnt/c/Users/Admin/Desktop/Project3/deployment$ kubectl logs backend-user-75cd5c464d-4dx8l

> udacity-c2-restapi@1.0.0 prod /usr/src/app
> tsc && node ./www/server.js

Executing (default): CREATE TABLE IF NOT EXISTS "User" ("email" VARCHAR(255) , "password_hash" VARCHAR(255), "createdAt" TIMESTAMP WITH TIME ZONE, "updatedAt" TIMESTAMP WITH TIME ZONE, PRIMARY KEY ("email"));
Executing (default): SELECT i.relname AS name, ix.indisprimary AS primary, ix.indisunique AS unique, ix.indkey AS indkey, array_agg(a.attnum) as column_indexes, array_agg(a.attname) AS column_names, pg_get_indexdef(ix.indexrelid) AS definition FROM pg_class t, pg_class i, pg_index ix, pg_attribute a WHERE t.oid = ix.indrelid AND i.oid = ix.indexrelid AND a.attrelid = t.oid AND t.relkind = 'r' and t.relname = 'User' GROUP BY i.relname, ix.indexrelid, ix.indisprimary, ix.indisunique, ix.indkey ORDER BY i.relname;
server running http://localhost:8080
press CTRL+C to stop server
Executing (default): SELECT "email", "password_hash", "createdAt", "updatedAt" FROM "User" AS "User" WHERE "User"."email" = 'loi@gmail.com';
tranloi@MSI:/mnt/c/Users/Admin/Desktop/Project3/deployment$
```