

kubectl get pods

```
Diptis-MBP:~ dipti$ kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
backend-feed-67dfd64c96-4scvx	1/1	Running	0	3m20s
backend-feed-67dfd64c96-qm7cj	1/1	Running	0	2m55s
backend-user-6d6857b94c-j88ql	1/1	Running	0	3m19s
frontend-7bbdb48f68-lr7vr	1/1	Running	0	19m
reverseproxy-69469dfd9-2wj7s	1/1	Running	0	20h

```
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NAME	READY	STATUS	RESTARTS	AGE
backend-feed-67dfd64c96-4scvx	1/1	Running	0	3m20s
backend-feed-67dfd64c96-qm7cj	1/1	Running	0	2m55s
backend-user-6d6857b94c-j88ql	1/1	Running	0	3m19s
frontend-7bbdb48f68-lr7vr	1/1	Running	0	19m
reverseproxy-69469dfd9-2wj7s	1/1	Running	0	20h

```
Diptis-MBP:~ dipti$ kubectl get deployments
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
backend-feed	2/2	2	2	20h
backend-user	1/1	1	1	20h
frontend	1/1	1	1	20h
reverseproxy	1/1	1	1	20h

```
Diptis-MBP:~ dipti$ kubectl expose deployment frontend --type=LoadBalancer --name=publicfrontend
```

service/publicfrontend exposed

```
Diptis-MBP:~ dipti$ kubectl expose deployment reverseproxy --type=LoadBalancer --name=publicreverseproxy
```

service/publicreverseproxy exposed

```
Diptis-MBP:~ dipti$ kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
backend-feed-67dfd64c96-4scvx	1/1	Running	0	6m35s
backend-feed-67dfd64c96-qm7cj	1/1	Running	0	6m10s
backend-user-6d6857b94c-j88ql	1/1	Running	0	6m34s
frontend-7bbdb48f68-lr7vr	1/1	Running	0	22m
reverseproxy-69469dfd9-2wj7s	1/1	Running	0	20h

```
Diptis-MBP:~ dipti$ kubectl get services
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
backend-feed	ClusterIP	10.100.20.89	<none>	8080/TCP	20h
backend-user	ClusterIP	10.100.62.31	<none>	8080/TCP	20h
frontend	ClusterIP	10.100.84.17	<none>	8100/TCP	20h
kubernetes	ClusterIP	10.100.0.1	<none>	443/TCP	21h
publicfrontend	LoadBalancer	10.100.109.220	a18adef5669f444c4aafd52aa3a53536-1738547433.us-east-1.elb.amazonaws.com	80:32371/TCP	113s
publicreverseproxy	LoadBalancer	10.100.104.57	a5a249dbd1fb64ed1809c4818af37172-351503402.us-east-1.elb.amazonaws.com	8080:32107/TCP	46s
reverseproxy	ClusterIP	10.100.219.164	<none>	8080/TCP	20h

```
Diptis-MBP:~ dipti$ kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
backend-feed-67dfd64c96-4scvx	1/1	Running	0	7m15s
backend-feed-67dfd64c96-qm7cj	1/1	Running	0	6m50s
backend-user-6d6857b94c-j88ql	1/1	Running	0	7m14s
frontend-7bbdb48f68-lr7vr	1/1	Running	0	23m
reverseproxy-69469dfd9-2wj7s	1/1	Running	0	20h

```
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```

kubectl describe services

```
Diptis-MBP:~ dipti$ kubectl describe services
Name:          backend-feed
Namespace:     default
Labels:        <none>
Annotations:   <none>
Selector:      app=backend-feed
Type:          ClusterIP
IP Family Policy: SingleStack
IP Families:   IPv4
IP:            10.100.20.89
IPs:           10.100.20.89
Port:          <unset> 8080/TCP
TargetPort:    8080/TCP
Endpoints:     192.168.103.65:8080,192.168.127.143:8080
Session Affinity: None
Events:        <none>

Name:          backend-user
Namespace:     default
Labels:        <none>
Annotations:   <none>
Selector:      app=backend-user
Type:          ClusterIP
IP Family Policy: SingleStack
IP Families:   IPv4
IP:            10.100.62.31
IPs:           10.100.62.31
Port:          <unset> 8080/TCP
TargetPort:    8080/TCP
Endpoints:     192.168.127.201:8080
Session Affinity: None
Events:        <none>

Name:          frontend
Namespace:     default
Labels:        <none>
Annotations:   <none>
Selector:      app=frontend
Type:          ClusterIP
IP Family Policy: SingleStack
IP Families:   IPv4
IP:            10.100.84.17
IPs:           10.100.84.17
Port:          <unset> 8100/TCP
TargetPort:    80/TCP
Endpoints:     192.168.115.168:80
Session Affinity: None
Events:        <none>
```

```
Name:      kubernetes
Namespace: default
Labels:    component=apiserver
           provider=kubernetes
Annotations: <none>
Selector:   <none>
Type:       ClusterIP
IP Family Policy: SingleStack
IP Families: IPv4
IP:         10.100.0.1
IPs:        10.100.0.1
Port:       https 443/TCP
TargetPort: 443/TCP
Endpoints:  192.168.108.252:443,192.168.85.106:443
Session Affinity: None
Events:     <none>

Name:      publicfrontend
Namespace: default
Labels:    <none>
Annotations: <none>
Selector:   app=frontend
Type:       LoadBalancer
IP Family Policy: SingleStack
IP Families: IPv4
IP:         10.100.109.220
IPs:        10.100.109.220
LoadBalancer Ingress: a18adef5669f444c4aafd52aa3a53536-1738547433.us-east-1.elb.amazonaws.com
Port:       <unset> 80/TCP
TargetPort: 80/TCP
NodePort:   <unset> 32371/TCP
Endpoints:  192.168.115.168:80
Session Affinity: None
External Traffic Policy: Cluster
Events:
  Type    Reason              Age    From              Message
  ----    -
  Warning  UnAvailableLoadBalancer 4m46s  service-controller  There are no available nodes for LoadBalancer
  Normal   UpdatedLoadBalancer    101s (x3 over 4m51s)  service-controller  Updated load balancer with new hosts
```

```

Name:                publicreverseproxy
Namespace:           default
Labels:              service=reverseproxy
Annotations:         <none>
Selector:            app=reverseproxy
Type:                LoadBalancer
IP Family Policy:    SingleStack
IP Families:         IPv4
IP:                  10.100.104.57
IPs:                 10.100.104.57
LoadBalancer Ingress: a5a249dbd1fb64ed1809c4818af37172-351503402.us-east-1.elb.amazonaws.com
Port:                <unset> 8080/TCP
TargetPort:          8080/TCP
NodePort:            <unset> 32107/TCP
Endpoints:           192.168.6.249:8080
Session Affinity:    None
External Traffic Policy: Cluster
Events:
  Type    Reason              Age   From                  Message
  ----    -
Warning  UnAvailableLoadBalancer 4m45s service-controller    There are no available nodes for LoadBalancer
Normal   UpdatedLoadBalancer    101s (x3 over 4m51s) service-controller    Updated load balancer with new hosts

Name:                reverseproxy
Namespace:           default
Labels:              <none>
Annotations:         <none>
Selector:            app=reverseproxy
Type:                ClusterIP
IP Family Policy:    SingleStack
IP Families:         IPv4
IP:                  10.100.219.164
IPs:                 10.100.219.164
Port:                <unset> 8080/TCP
TargetPort:          8080/TCP
Endpoints:           192.168.6.249:8080
Session Affinity:    None
Events:              <none>
diptis-MBP:~ diptis$

```

Docker hub

dipti20 / udagram-api-user Last pushed: an hour ago	Not Scanned	☆ 0	↓ 17	Public
dipti20 / udagram-frontend Last pushed: 2 hours ago	Not Scanned	☆ 0	↓ 14	Public
dipti20 / reverseproxy Last pushed: 2 days ago	Not Scanned	☆ 0	↓ 12	Public
dipti20 / udagram-api-feed Last pushed: 2 days ago	Not Scanned	☆ 0	↓ 15	Public

Travis build

dipti95 / Refactor-Monolith-to-Microservices-and-Deploy

Current Branches Build History Pull Requests > Build #4 Job #4.1 More options

More optio

✓ main updated:travis file ➔ #4.1 passed ↻ Restart

→ #4.1 passed Restart

🔄 Restart j

Commit 5a9a506 Ran for 5 min 28 sec

[Compare a713e03...5a9a506](#) 4 minutes ago

Branch main

Dipti Yadav

AMD64

[Job log](#) [View config](#) [View config](#) ●

Kubecttl logs

```
Diptis-MBP:~ dipti$ kubectl logs -f backend-feed-67dfd64c96-rb6nj
```

```
> udagram-api@2.0.0 prod /usr/src/app
> tsc && node ./www/server.js
```

```
Initialize database connection...
```

```
Executing (default): CREATE TABLE IF NOT EXISTS "FeedItem" ("id" SERIAL, "caption" VARCHAR(255), "url" VARCHAR(255), "createdAt" TIMESTAMPT WITH TIME ZONE, "updatedAt" TIMESTAMPT WITH TIME ZONE, "feedId" INT REFERENCES "Feed" ("id") ON DELETE CASCADE);
Executing (default): SELECT i.relname AS name, ix.indisprimary AS primary, ix.indisunique AS unique, ix.indexkey AS indexkey, array_agg(a.attname) AS column_indexes, array_agg(a.attname) AS column_names, ef(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 i.relname = 'ix' AND ix.indexname = 'ix' GROUP BY i.relname, ix.indexrelid, ix.indisprimary, ix.indisunique, ix.indexkey ORDER BY i.relname;
server running http://localhost:8100
```

```
press CTRL+C to stop server
```

```
Executing (default): SELECT count(*) AS "count" FROM "FeedItem" AS "FeedItem";
```

[illegible]

Kubectl describe hpa

```
Diptis-MBP:~ dipti$ kubectl get hpa
NAME                REFERENCE                TARGETS  MINPODS  MAXPODS  REPLICAS  AGE
backend-feed        Deployment/backend-feed   0%/49%   1         3         1          8m43s
backend-user        Deployment/backend-user    0%/10%   1         3         1          7m3s
Diptis-MBP:~ dipti$ kubectl describe hpa
Name:                backend-feed
Namespace:           default
Labels:              <none>
Annotations:         <none>
CreationTimestamp:   Fri, 05 Aug 2022 17:22:44 -0400
Reference:           Deployment/backend-feed
Metrics:              ( current / target )
  resource cpu on pods  (as a percentage of request): 0% (0) / 49%
Min replicas:         1
Max replicas:         3
Deployment pods:      1 current / 1 desired
Conditions:
  Type            Status  Reason                Message
  ----            -
  AbleToScale     True    ReadyForNewScale      recommended size matches current size
  ScalingActive   True    ValidMetricFound      the HPA was able to successfully calculate a replica count from cpu resource utilization (percentage of request)
  ScalingLimited  True    TooFewReplicas        the desired replica count is less than the minimum replica count
Events:
  Type    Reason      Age    From                Message
  ----    -
  Normal  SuccessfulRescale  3m51s  horizontal-pod-autoscaler  New size: 1; reason: All metrics below target

Name:                backend-user
Namespace:           default
Labels:              <none>
Annotations:         <none>
CreationTimestamp:   Fri, 05 Aug 2022 17:24:24 -0400
Reference:           Deployment/backend-user
Metrics:              ( current / target )
  resource cpu on pods  (as a percentage of request): 0% (0) / 10%
Min replicas:         1
Max replicas:         3
Deployment pods:      1 current / 1 desired
Conditions:
  Type            Status  Reason                Message
  ----            -
  AbleToScale     True    ReadyForNewScale      recommended size matches current size
  ScalingActive   True    ValidMetricFound      the HPA was able to successfully calculate a replica count from cpu resource utilization (percentage of request)
  ScalingLimited  True    TooFewReplicas        the desired replica count is less than the minimum replica count
Events:          <none>
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```