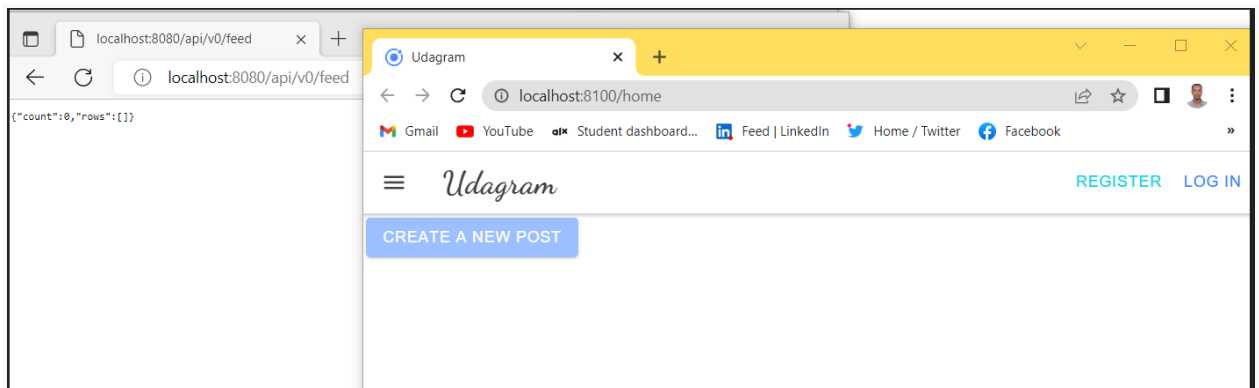
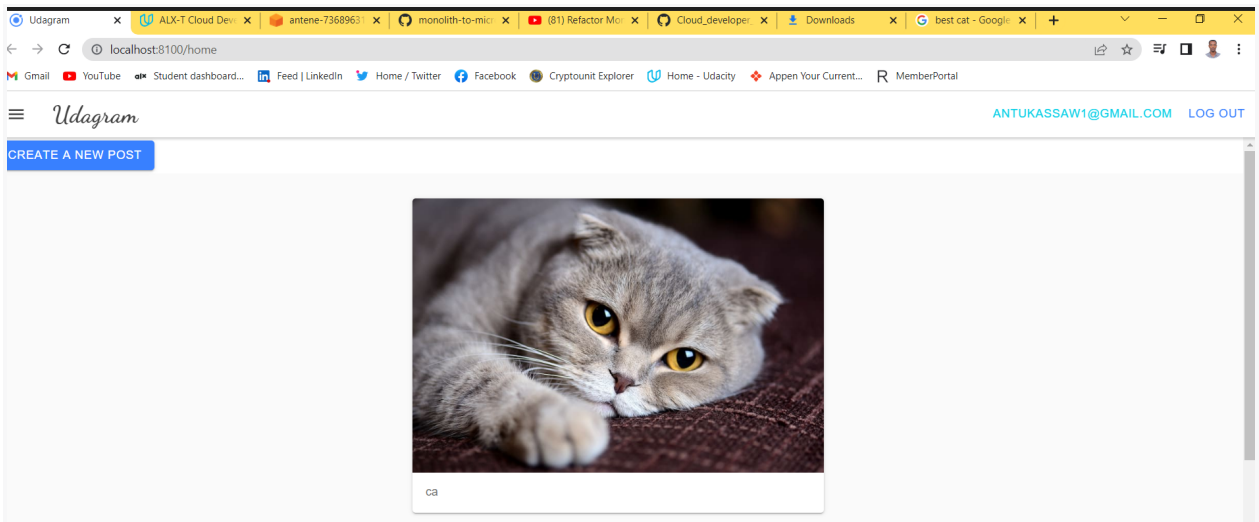


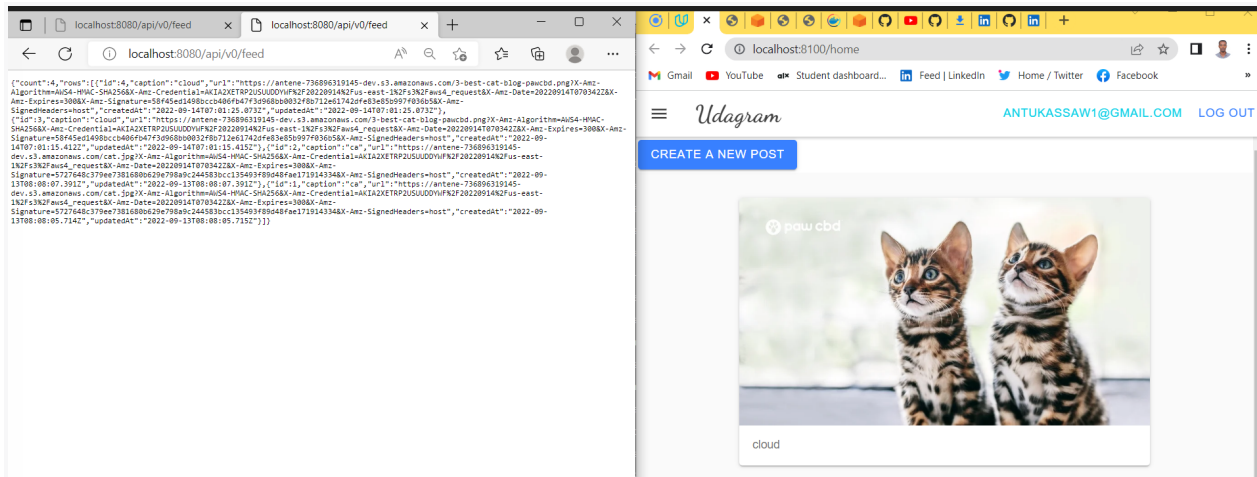
Images



Create post

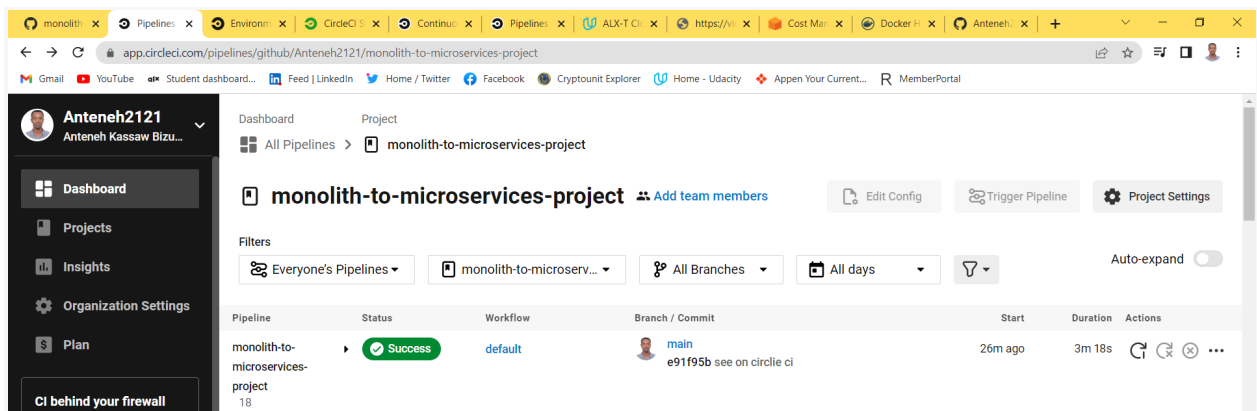


post images to S3



DockerHub showing images that you have pushed

Circle ci



The screenshot shows the CircleCI dashboard for the 'monolith-to-microservices-project'. The pipeline is in a 'Success' state. The left sidebar contains navigation links: Dashboard, Projects, Insights, Organization Settings, and Plan. The main content area shows the pipeline details, including filters for 'Everyone's Pipelines', 'monolith-to-microserv...', 'All Branches', and 'All days'. The pipeline table lists the following jobs:

Pipeline	Status	Workflow	Branch / Commit	Start	Duration	Actions
monolith-to-microservices-project	Success	default	main e91f95b see on circle ci	27m ago	3m 18s	🔄 📄 🗑️ ⋮
Jobs						
lint-app	Success	42			16s	
build-docker	Success	43			2m 55s	

The screenshot shows the details for the 'build-docker' job, which is in a 'Success' state. The left sidebar is the same as the previous screenshot. The main content area shows the job details, including filters for 'monolith-to-microservices-project', 'main', 'default', and 'build-docker (43)'. The job details table shows the following information:

Duration / Finished	Queued	Executor / Resource Class	Branch	Commit	Author & Message
2m 55s / 21m ago	0s	Machine / Linux Large ↗	main	e91f95b	see on circle ci

The 'STEPS' tab is selected, showing the following steps:

- Spin up environment (0s)
- Preparing environment variables (0s)
- Checkout code (0s)
- Build docker container for each microservices (2m 54s)

Docker images

```
hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project (main)
$ docker images
REPOSITORY              TAG         IMAGE ID      CREATED        SIZE
udagram-frontend        local      688b73c51a8a  19 minutes ago  41MB
udagram-api-user        latest     652eb60d2436  16 hours ago   1.12GB
udagram-api-feed        latest     3bd1abcff054  16 hours ago   1.12GB
reverseproxy            latest     e6197299bc64  18 hours ago   23.5MB
udagram-frontend        latest     6558053d880a  2 days ago     41MB
```

```
hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project (main)
$ docker images
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
udagram-frontend    local       688b73c51a8a  19 minutes ago 41MB
udagram-api-user     latest     652eb60d2436  16 hours ago  1.12GB
udagram-api-feed     latest     3bd1abcff054  16 hours ago  1.12GB
reverseproxy        latest     e6197299bc64  18 hours ago  23.5MB

```

kubectl get nodes

```
MINGW64:/c:/Users/hp/Desktop/project3/monolith-to-microservices-project
hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project (main)
$ kubectl get nodes
NAME                                STATUS    ROLES    AGE   VERSION
ip-192-168-2-27.us-east-2.compute.internal Ready    <none>   155m  v1.22.12-eks-ba74326
ip-192-168-46-216.us-east-2.compute.internal Ready    <none>   152m  v1.22.12-eks-ba74326
hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project (main)
$ |
```

Apply env variables and secrets

```
hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project (main)
$ cd deployment

hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$ kubectl apply -f aws-secret.yaml
secret/mysecret created

hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$ kubectl apply -f env-secret.yaml
secret/env-secret created

hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$ kubectl apply -f env-configmap.yaml
configmap/env-config created

hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$ |
```

DockerHub repository

Docker Hub
hub.docker.com
Gmail
YouTube
Student dashboard...
Feed | LinkedIn
Home / Twitter
Facebook
Cryptounit Explorer
Home - Udacity
Appen Your Current...
MemberPortal

dockerhub
Search for great content (e.g., mysql)
Explore
Repositories
Organizations
Help
Upgrade
antenehse

antenehse
Search by repository name
Create repository

antenehse / reverseproxy
Not Scanned
0
0
Public
Last pushed: 15 minutes ago

antenehse / udagram-frontend
Not Scanned
0
0
Public
Last pushed: 16 minutes ago

antenehse / udagram-api-user
Not Scanned
0
0
Public
Last pushed: 16 minutes ago

antenehse / udagram-api-feed
Not Scanned
0
0
Public
Last pushed: 16 minutes ago

Create an Organization
Manage Docker Hub repositories
with your team

Udagram
Docker Hub
hub.docker.com/repository/docker/antenehse/udagram-api-user
Gmail
YouTube
Student dashboard...
Feed | LinkedIn
Home / Twitter
Facebook
Cryptounit Explorer
Home - Udacity
Appen Your Current...
MemberPortal

Add a short description for this repository
The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.
Update

Description
This repository does not have a description
Last pushed: 28 minutes ago

Docker commands
Public View

To push a new tag to this repository.

```
docker push antenehse/udagram-api-user:tagname
```

Tags and scans
VULNERABILITY SCANNING - DISABLED
Enable

This repository contains 1 tag(s).

TAG	OS	PULLED	PUSHED
latest		---	28 minutes ago

See all
Go to Advanced Image Management

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

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Udagram

Docker Hub

hub.docker.com/repository/docker/antenehse/reverseproxy

GmailYouTubeStudent dashboard...Feed | LinkedInHome / TwitterFacebookCryptounit ExplorerHome - UdacityAppen Your Current...MemberPortal

The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.

antenehse / reverseproxy

Description

This repository does not have a description

Last pushed: 25 minutes ago

Docker commands

To push a new tag to this repository,

docker push antenehse/reverseproxy:tagname

Public View

Tags and scans

VULNERABILITY SCANNING - DISABLED

Enable

This repository contains 1 tag(s).

TAG	OS	PULLED	PUSHED
latest		---	25 minutes ago

[See all](#)[Go to Advanced Image Management](#)

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

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UpgradeLearn more

Udagram

Docker Hub

hub.docker.com/repository/docker/antenehse/reverseproxy

GmailYouTubeStudent dashboard...Feed | LinkedInHome / TwitterFacebookCryptounit ExplorerHome - UdacityAppen Your Current...MemberPortal

The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.

antenehse / reverseproxy

Description

This repository does not have a description

Last pushed: 25 minutes ago

Docker commands

To push a new tag to this repository,

docker push antenehse/reverseproxy:tagname

Public View

Tags and scans

VULNERABILITY SCANNING - DISABLED

Enable

This repository contains 1 tag(s).

TAG	OS	PULLED	PUSHED
latest		---	25 minutes ago

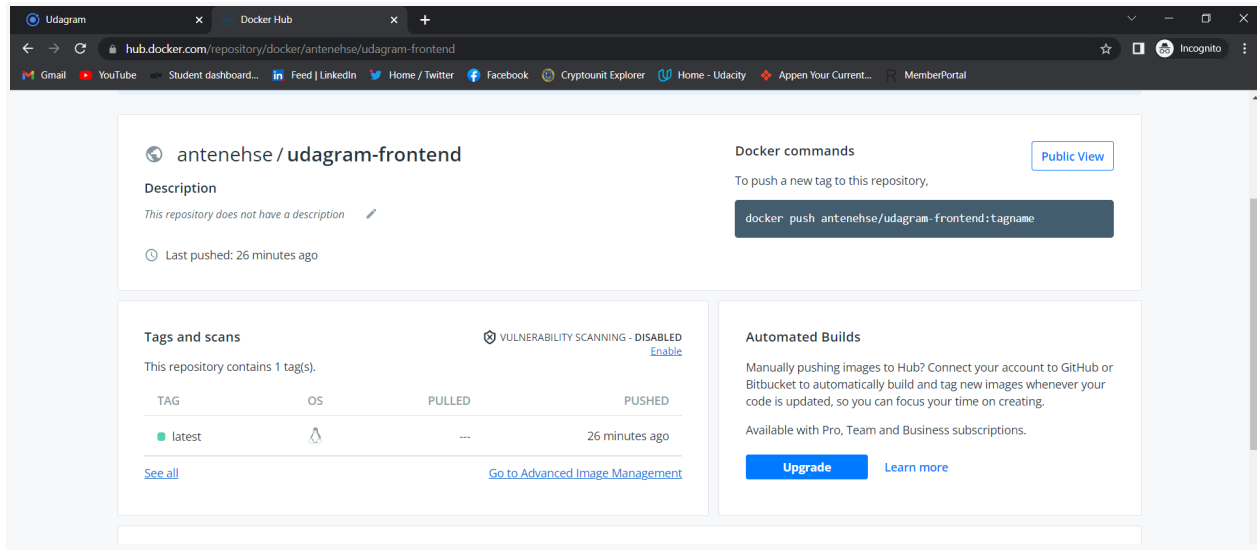
[See all](#)[Go to Advanced Image Management](#)

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions.

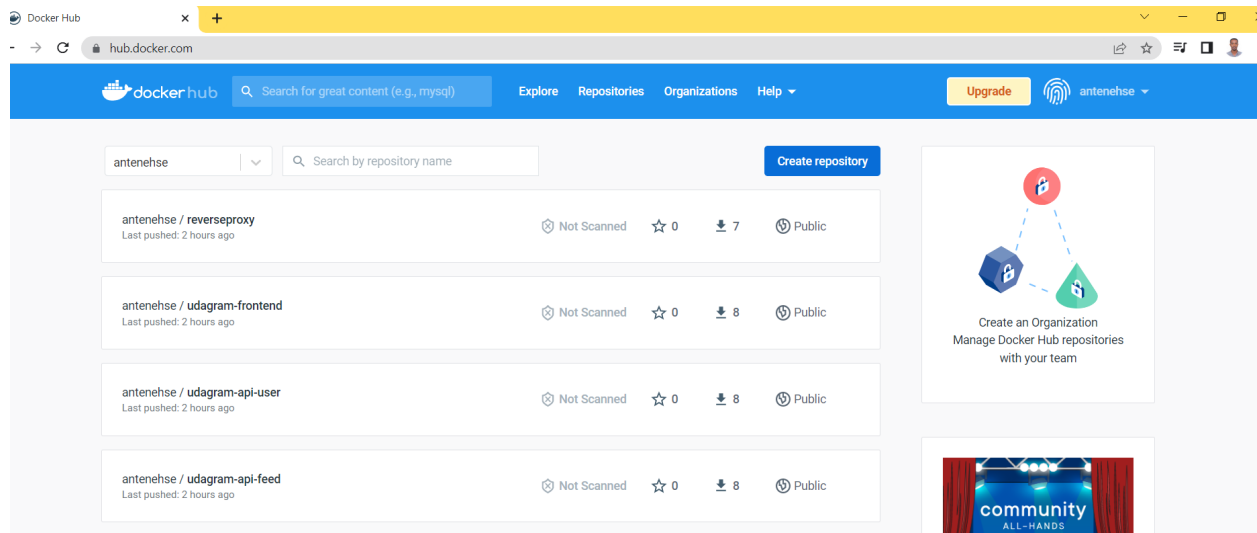
UpgradeLearn more



The screenshot shows the Docker Hub repository page for `antenehse/udagram-frontend`. The page includes a description section stating "This repository does not have a description" and "Last pushed: 26 minutes ago". A "Docker commands" section provides the command `docker push antenehse/udagram-frontend:tagname`. A "Tags and scans" section shows a table with one tag, `latest`, pushed 26 minutes ago. The table has columns for TAG, OS, PULLED, and PUSHED. A "Vulnerability Scanning - DISABLED" status is shown with an "Enable" link. An "Automated Builds" section explains how to connect GitHub or Bitbucket for automatic builds. The page also features a "Public View" button and an "Upgrade" button.

TAG	OS	PULLED	PUSHED
latest	linux	---	26 minutes ago

Deployments - Double check the Dockerhub image



The screenshot shows the Docker Hub search results for the user `antenehse`. The search results list four repositories: `antenehse/reverseproxy`, `antenehse/udagram-frontend`, `antenehse/udagram-api-user`, and `antenehse/udagram-api-feed`. Each repository entry shows its last push time (2 hours ago), a "Not Scanned" status, 0 stars, 7 or 8 downloads, and a "Public" status. A "Create repository" button is visible. On the right, there is a "Create an Organization" prompt and a "community ALL-HANDS" banner.

Kubernetes pods are deployed properly

```
kubectl get pods
```

```
hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
backend-feed-5489db5cff-2r8rs       1/1     Running   0           37s
backend-feed-5489db5cff-p4v78       1/1     Running   0           37s
backend-user-c5cfb57cb-rgsps        1/1     Running   0           26s
backend-user-c5cfb57cb-znqf4        1/1     Running   0           26s
frontend-69cdb8c4b5-r4pdr           1/1     Running   0           3h43m
frontend-69cdb8c4b5-wn8pn           1/1     Running   0           3h43m
reverseproxy-7877b8bcfc-b9rp7       1/1     Running   0           3h57m
reverseproxy-7877b8bcfc-qghm7       1/1     Running   0           3h57m

hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$
```

```
kubectl describe
```

```
hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$ kubectl get deployments
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
backend-feed  2/2     2             2           22s
backend-user  2/2     2             2           11s
frontend      2/2     2             2           3h42m
reverseproxy  2/2     2             2           3h57m

hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$ kubectl get services
NAME          TYPE        CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
backend-feed  ClusterIP   10.100.84.131 <none>          8080/TCP         5h18m
backend-user  ClusterIP   10.100.96.130 <none>          8080/TCP         5h17m
frontend      ClusterIP   10.100.47.58  <none>          80/TCP           5h16m
kubernetes    ClusterIP   10.100.0.1    <none>          443/TCP          10h
publicfrontend LoadBalancer 10.100.30.144 aeb3a2944348441ef987ea6db9a56279-806172751.us-east-2.elb.amazonaws.com 80:31891/TCP 145m
publicreverseproxy LoadBalancer 10.100.54.6    a86ffb135af064d0481fb6c1619589a5-151079703.us-east-2.elb.amazonaws.com 80:31783/TCP 143m
reverseproxy  ClusterIP   10.100.96.160 <none>          8080/TCP         5h15m

hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
backend-feed-5489db5cff-2r8rs       1/1     Running   0           37s
backend-feed-5489db5cff-p4v78       1/1     Running   0           37s
backend-user-c5cfb57cb-rgsps        1/1     Running   0           26s
backend-user-c5cfb57cb-znqf4        1/1     Running   0           26s
frontend-69cdb8c4b5-r4pdr           1/1     Running   0           3h43m
frontend-69cdb8c4b5-wn8pn           1/1     Running   0           3h43m
reverseproxy-7877b8bcfc-b9rp7       1/1     Running   0           3h57m
reverseproxy-7877b8bcfc-qghm7       1/1     Running   0           3h57m

hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$
```

```
hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
backend-feed-794498579b-ghgn9       1/1     Running   0           14s
backend-feed-794498579b-ng4jf       1/1     Running   0           14s
backend-feed-794498579b-p4xhk       1/1     Running   0           7s
backend-user-667bc765f-4fqc4        1/1     Running   0           37s
backend-user-667bc765f-fpvbr        1/1     Running   1 (9s ago)   52s
backend-user-667bc765f-hrr7l        1/1     Running   1 (8s ago)   52s
frontend-679bcff998-k9j9j           1/1     Running   0           150m
frontend-679bcff998-m5l1dn          1/1     Running   0           150m
reverseproxy-7877b8bcfc-9rvp1       1/1     Running   0           3h50m
reverseproxy-7877b8bcfc-pg7d1       1/1     Running   0           3h50m
```



```
kubectl describe services
```

hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)

```
$ kubectl describe services
```

```
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:            10.100.84.131
IPs:           10.100.84.131
Port:          8080 8080/TCP
TargetPort:    8080/TCP
Endpoints:     <none>
Session Affinity: None
Events:        <none>
```

```
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:            10.100.96.130
IPs:           10.100.96.130
Port:          8080 8080/TCP
TargetPort:    8080/TCP
Endpoints:     <none>
Session Affinity: None
Events:        <none>
```

```
Name:          frontend
Namespace:     default
Labels:        run=frontend
Annotations:   <none>
Selector:      run=frontend
Type:          ClusterIP
IP Family Policy: SingleStack
IP Families:   IPv4
IP:            10.100.47.58
IPs:           10.100.47.58
Port:          <unset> 80/TCP
TargetPort:    80/TCP
Endpoints:     192.168.12.234:80,192.168.90.214:80
Session Affinity: None
Events:        <none>
```

```
Name:          kubernetes
Namespace:     default
```

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: 192.168.191.191:443,192.168.99.29:443
Session Affinity: None
Events: <none>

Name: publicfrontend
Namespace: default
Labels: <none>
Annotations: <none>
Selector: run=frontend
Type: LoadBalancer
IP Family Policy: SingleStack
IP Families: IPv4
IP: 10.100.30.144
IPs: 10.100.30.144
LoadBalancer Ingress: aeb3a2944348441ef987ea6db9a56279-806172751.us-east-2.elb.amazonaws.com
Port: <unset> 80/TCP
TargetPort: 80/TCP
NodePort: <unset> 31891/TCP
Endpoints: 192.168.12.234:80,192.168.90.214:80
Session Affinity: None
External Traffic Policy: Cluster
Events: <none>

Name: publicreverseproxy
Namespace: default
Labels: <none>
Annotations: <none>
Selector: run=reverseproxy
Type: LoadBalancer
IP Family Policy: SingleStack
IP Families: IPv4
IP: 10.100.54.6
IPs: 10.100.54.6
LoadBalancer Ingress: a86ffb135af064d0481fb6c1619589a5-151079703.us-east-2.elb.amazonaws.com
Port: <unset> 80/TCP
TargetPort: 80/TCP
NodePort: <unset> 31783/TCP
Endpoints: 192.168.18.212:80,192.168.8.68:80
Session Affinity: None
External Traffic Policy: Cluster
Events: <none>

```
Name:          reverseproxy
Namespace:     default
Labels:        service=reverseproxy
Annotations:   <none>
Selector:      service=reverseproxy
Type:          ClusterIP
IP Family Policy: SingleStack
IP Families:   IPv4
IP:            10.100.96.160
IPs:           10.100.96.160
Port:          8080 8080/TCP
TargetPort:    8080/TCP
Endpoints:     <none>
Session Affinity: None
Events:        <none>
```

```
hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$
```

kubectl describe hpa

```
hp@ET-27608 MINGW64 ~/Desktop/project3/monolith-to-microservices-project/deployment (main)
$ kubectl get hpa
NAME          REFERENCE                TARGETS   MINPODS   MAXPODS   REPLICAS   AGE
backend-feed  Deployment/backend-feed   388%/70%   3         5         5          74m
backend-user  Deployment/backend-user   351%/70%   3         5         5          74m
```