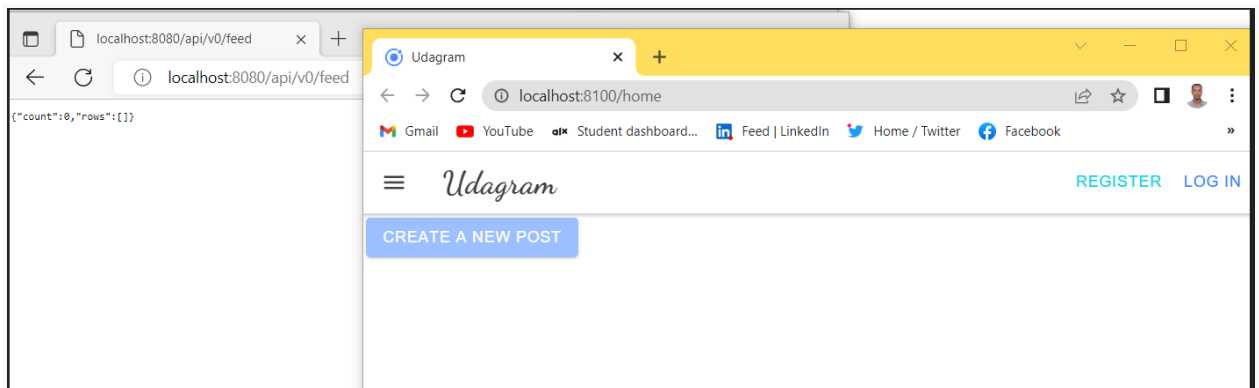
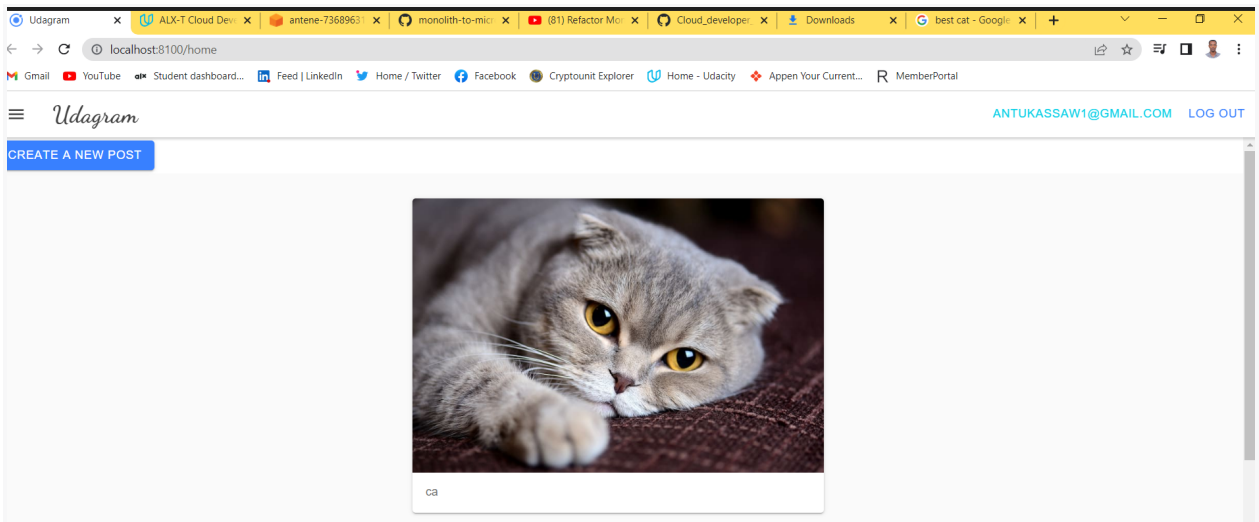


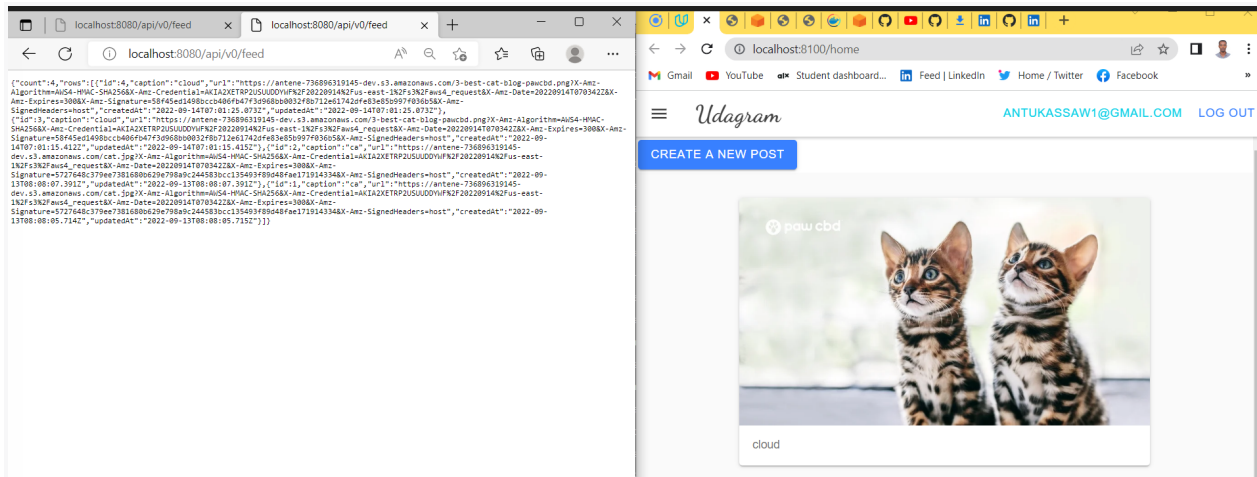
## Images



## Create post

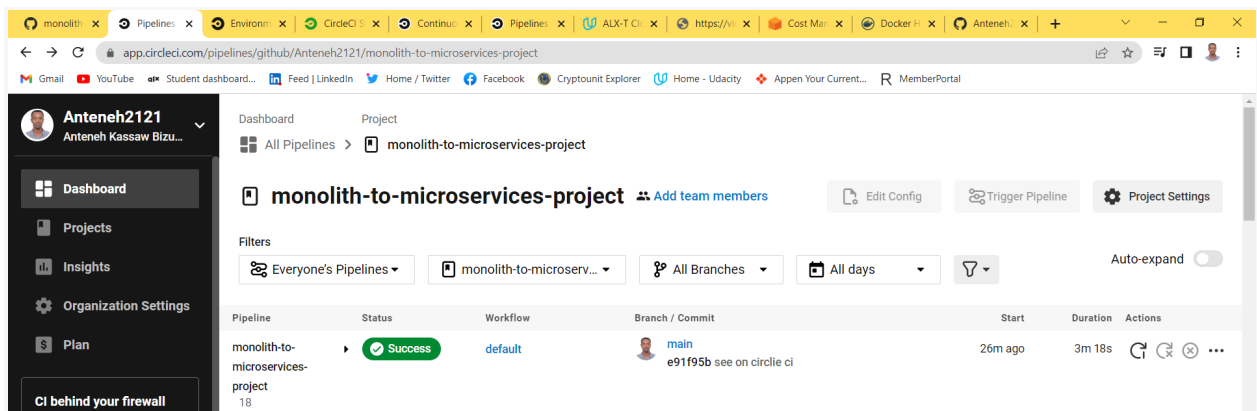


## post images to S3



DockerHub showing images that you have pushed

Circle ci



The screenshot shows the CircleCI dashboard for the project 'monolith-to-microservices-project'. The left sidebar contains navigation links: Dashboard, Projects, Insights, Organization Settings, and Plan. The main content area shows a list of pipelines. The selected pipeline is 'monolith-to-microservices-project' with a status of 'Success'. It was triggered 27m ago and took 3m 18s to complete. The pipeline has two jobs: 'lint-app' (42s) and 'build-docker' (43s). The 'build-docker' job is highlighted in the 'Jobs' section.

The screenshot shows the details of the 'build-docker' job. The job status is 'Success'. It was triggered 2m 55s ago and took 2m 55s to complete. The job is running on a 'Machine / Linux Large' executor. The job details include a table with columns: Duration / Finished, Queued, Executor / Resource Class, Branch, Commit, and Author & Message. The job is part of a workflow named 'default' on the 'main' branch. The job is triggered by a commit from 'e91f95b' by 'see on circle ci'. The job is part of a pipeline named 'monolith-to-microservices-project'.

## 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
```

```
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

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hub.docker.com/repository/docker/antenehse/udagram-api-user

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antenehse / udagram-api-user

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Tags and scans VULNERABILITY SCANNING - DISABLED Enable This repository contains 1 tag(s).

TAG	OS	PULLED	PUSHED
latest	linux	---	28 minutes ago

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Udagram

Docker Hub

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

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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

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Udagram

Docker Hub

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

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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

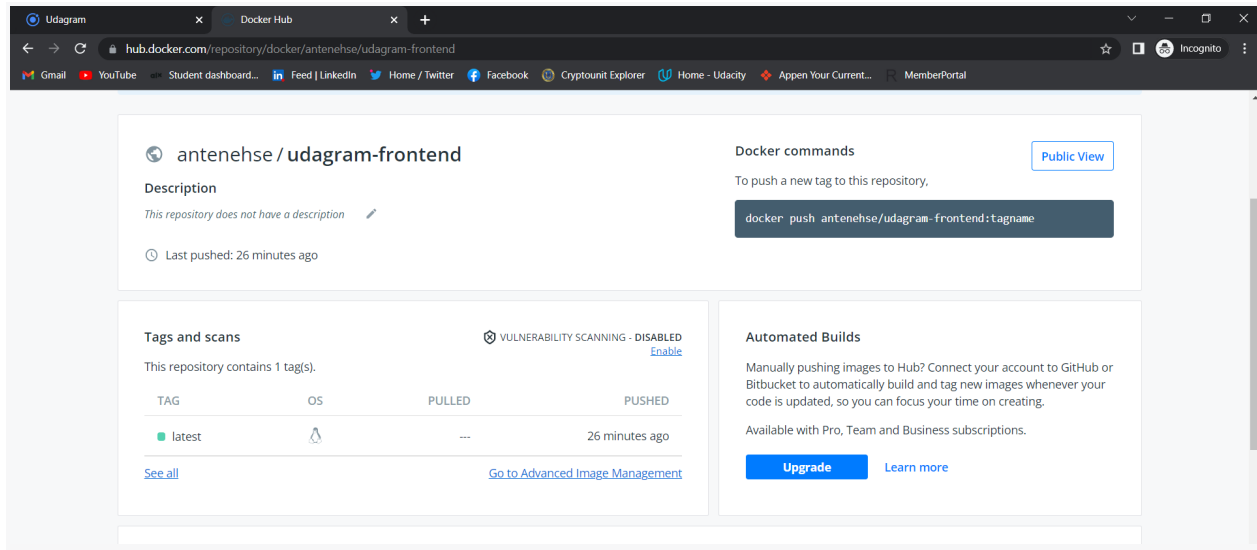
[See all](#)[Go to Advanced Image Management](#)

Automated Builds

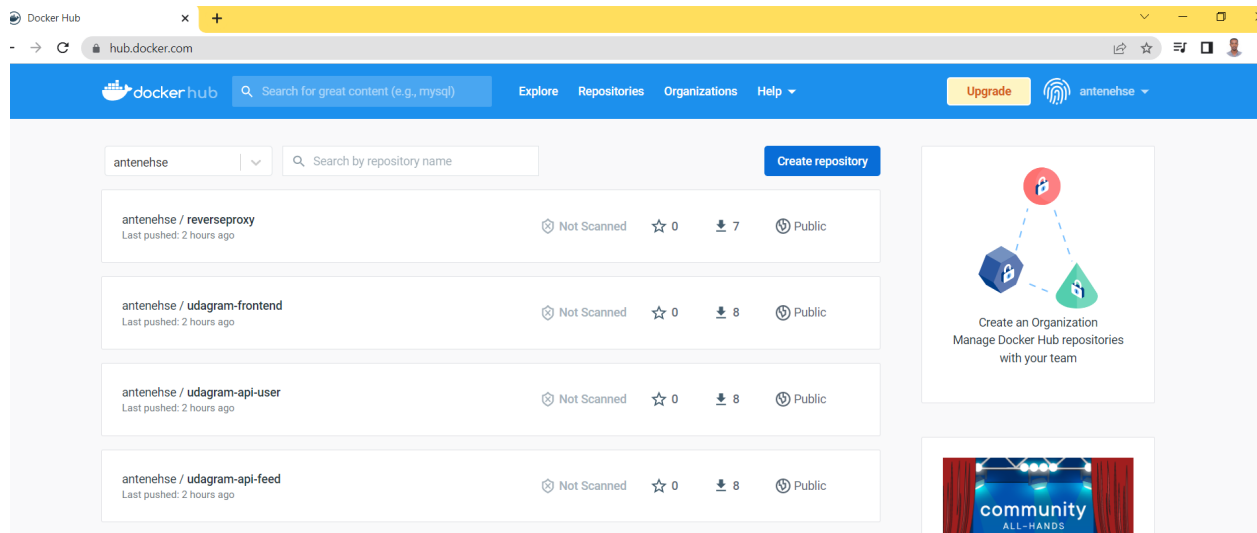
Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

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# Deployments - Double check the Dockerhub image



# 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

kubectl describe hpa

```

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

```

Name:	backend-feed
Namespace:	default
Labels:	<none>
Annotations:	<none>
CreationTimestamp:	Fri, 16 Sep 2022 14:23:44 -0700
Reference:	Deployment/backend-feed
Metrics:	( current / target )
resource cpu on pods (as a percentage of request):	476% (953m) / 70%
Min replicas:	3
Max replicas:	5
Deployment pods:	5 current / 5 desired
Conditions:	
Type	Status Reason Message
ableToScale	True SucceededGetScale the HPA controller was able to get the target's current scale
ScalingActive	False FailedGetResourceMetric the HPA was unable to compute the replica count: failed to get cpu utilization: unable to get metrics for resource cpu: no metrics returned from resource metrics API
ScalingLimited	True TooManyReplicas the desired replica count is more than the maximum replica count
Events:	
Type Reason Age From Message	
Warning FailedGetResourceMetric 3m22s (x543 over 3h17m) horizontal-pod-autoscaler	failed to get cpu utilization: unable to get metrics for resource cpu: no metrics returned from resource metrics API

Name:	backend-user
Namespace:	default
Labels:	<none>
Annotations:	<none>
CreationTimestamp:	Fri, 16 Sep 2022 14:24:25 -0700
Reference:	Deployment/backend-user
Metrics:	( current / target )
resource cpu on pods (as a percentage of request):	496% (993m) / 70%
Min replicas:	3
Max replicas:	5
Deployment pods:	5 current / 5 desired
Conditions:	
Type	Status Reason Message
ableToScale	True SucceededGetScale the HPA controller was able to get the target's current scale
ScalingActive	False FailedGetResourceMetric the HPA was unable to compute the replica count: failed to get cpu utilization: unable to get metrics for resource cpu: no metrics returned from resource metrics API
ScalingLimited	True TooManyReplicas the desired replica count is more than the maximum replica count
Events:	
Type Reason Age From Message	
Warning FailedGetResourceMetric 2m38s (x566 over 3h17m) horizontal-pod-autoscaler	failed to get cpu utilization: unable to get metrics for resource cpu: no metrics returned from resource metrics API

Name:	frontend
Namespace:	default
Labels:	<none>
Annotations:	<none>
CreationTimestamp:	Fri, 16 Sep 2022 17:41:15 -0700
Reference:	Deployment/frontend

```

Name: frontend
Namespace: default
Labels:
Annotations:
CreationTimestamp: Fri, 16 Sep 2022 17:41:15 -0700
Reference: Deployment/frontend
Metrics:
  resource cpu on pods (as a percentage of request): 0% (1m) / 70%
Min replicas: 3
Max replicas: 5
Deployment pods: 3 current / 3 desired
Conditions:
  Type          Status Reason
  ----          -
  AbleToScale   True   ScaleDownStabilized recent recommendations were higher than current one, applying the highest recent recommendation
  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 56s horizontal-pod-autoscaler New size: 3; reason: Current number of replicas below Spec.MinReplicas

Name: reverseproxy
Namespace: default
Labels:
Annotations:
CreationTimestamp: Fri, 16 Sep 2022 17:41:45 -0700
Reference: Deployment/reverseproxy
Metrics:
  resource cpu on pods (as a percentage of request): 0% (0) / 70%
Min replicas: 3
Max replicas: 5
Deployment pods: 3 current / 3 desired
Conditions:
  Type          Status Reason
  ----          -
  AbleToScale   True   ScaleDownStabilized recent recommendations were higher than current one, applying the highest recent recommendation
  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 27s horizontal-pod-autoscaler New size: 3; reason: Current number of replicas below Spec.MinReplicas

```

kubectl get 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  421%/70%   3         5         5          3h33m
backend-user  Deployment/backend-user  414%/70%   3         5         5          3h32m
frontend      Deployment/frontend    0%/70%     3         5         3          16m
reverseproxy  Deployment/reverseproxy  0%/70%     3         5         3          15m

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

```