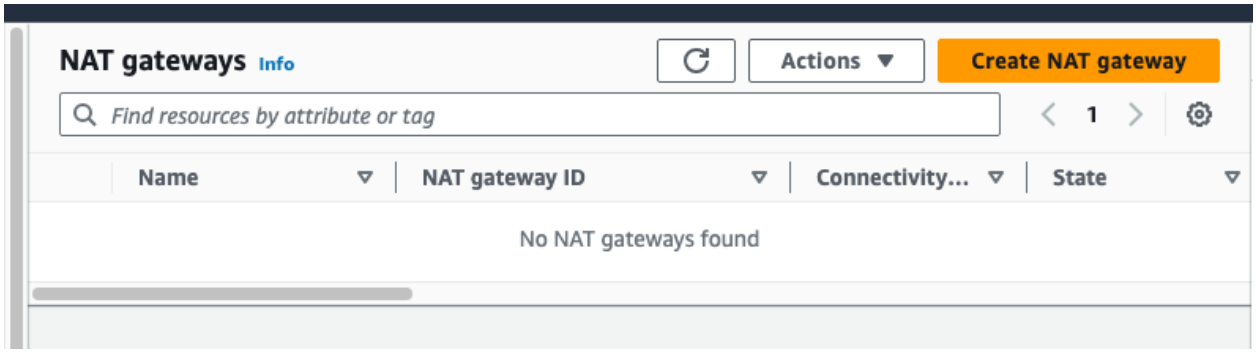
RDS

- Start the DB Instance

NAT Gateway

- Our app is going to be running inside a private subnet. We need to pull ECR images. There will NOT be any connectivity. We need to add the NAT gateway.
- Go to VPC & Create NAT gateway



- NAT gateway will be part of the public subnet. We will allocate an Elastic IP address.

NAT gateway settings

Name - *optional*

Create a tag with a key of 'Name' and a value that you specify.

netflux-nat-gateway

The name can be up to 256 characters long.

Subnet

Select a subnet in which to create the NAT gateway.

subnet-05b695fccfbce21ee (netflux-subnet-public1-us-east-1a)

Connectivity type

Select a connectivity type for the NAT gateway.

- (•) Public
- ( ) Private

Elastic IP allocation ID Info

Assign an Elastic IP address to the NAT gateway.

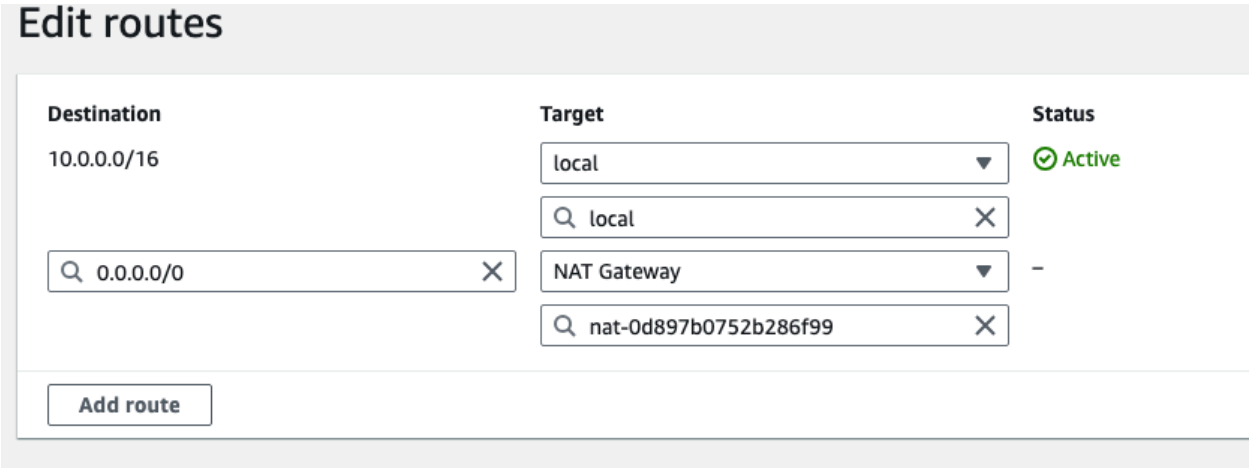
eipalloc-02d36b94b47e1948b | Allocate Elastic IP

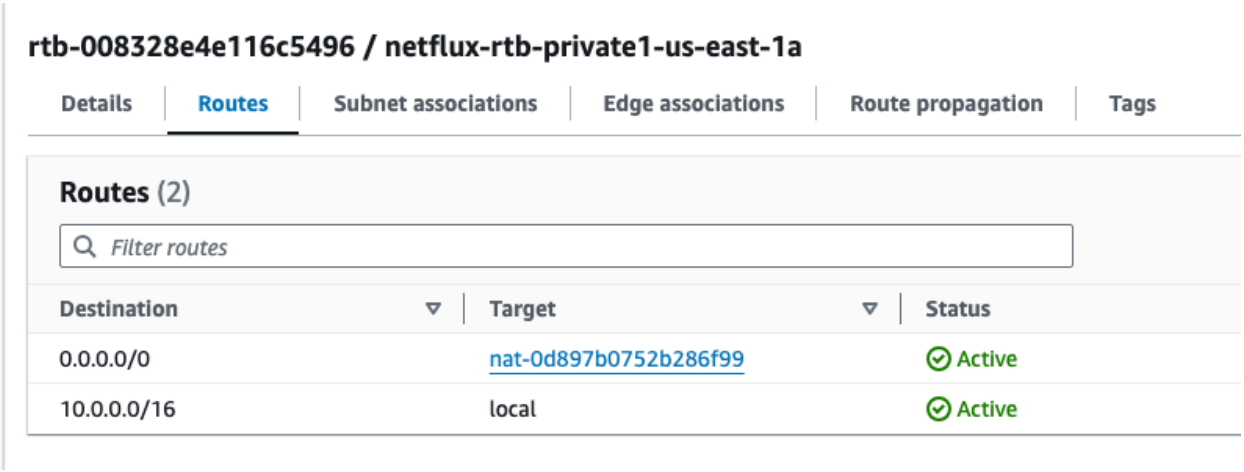
- Create
- Go to Route Tables. The private subnet 1 and 2 should have NAT gateway associated with it.

Route tables (6) Info

Find resources by attribute or tag

Name	Route table ID	Ex
–	rtb-08eaba530d3268ea3	–
netflux-rtb-private1-us-east-1a	rtb-008328e4e116c5496	sul
netflux-rtb-private2-us-east-1b	rtb-094cc4f401a05234d	sul
netflux-rtb-private3-us-east-1a	rtb-0643d8c8fe783becf	sul
netflux-rtb-private4-us-east-1b	rtb-0b3db4d8e28af791e	sul
netflux-rtb-public	rtb-0f91cdbbc5c46136f	2 s

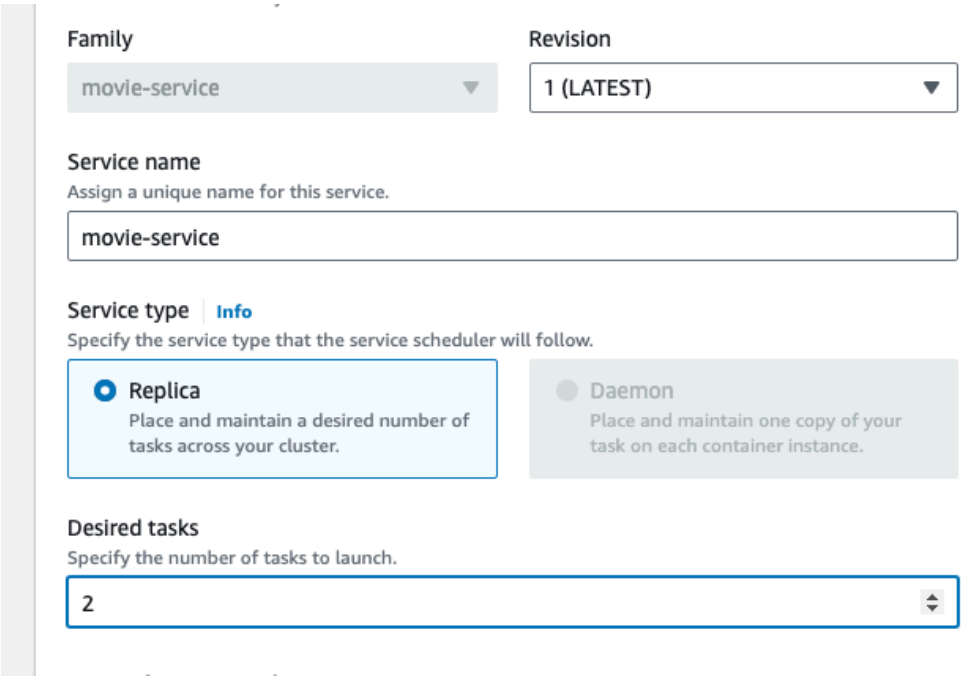




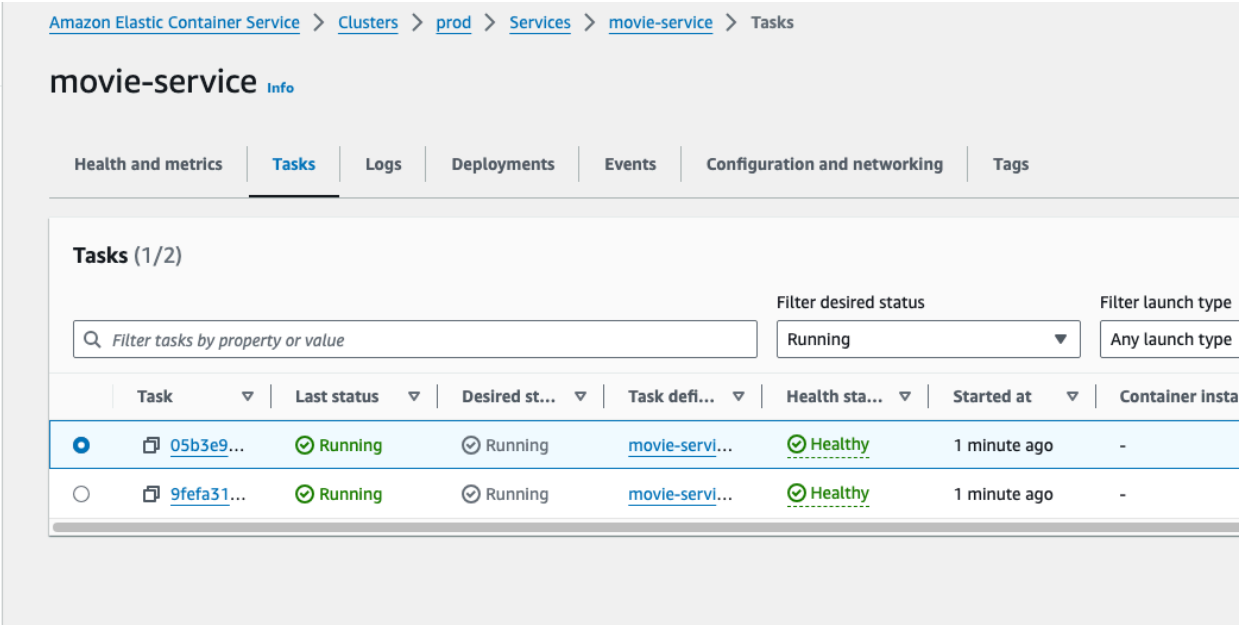
- Repeat the same for private-subnet2

ECS/Fargate Service

- Go to Movie service. Update the service with desired tasks “2”

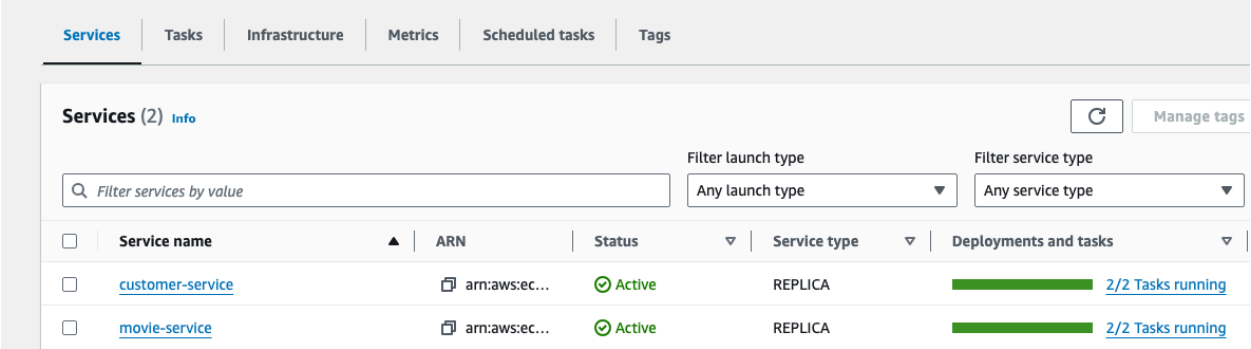


- Wait for 5 minutes! We can see the apps running fine!

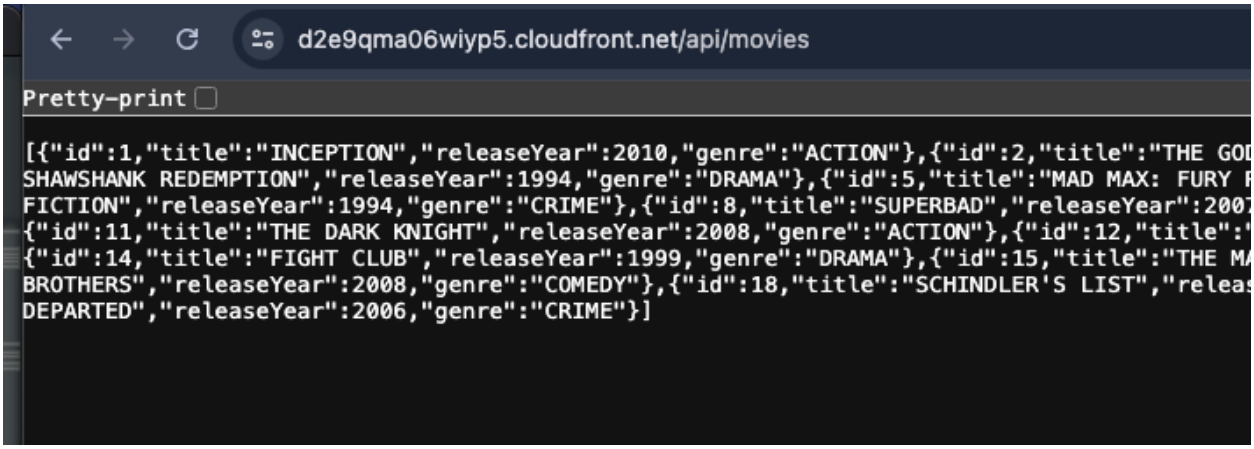


In case of issues, check the log for error, DB, NAT gateway, IAM Roles, Security Groups.

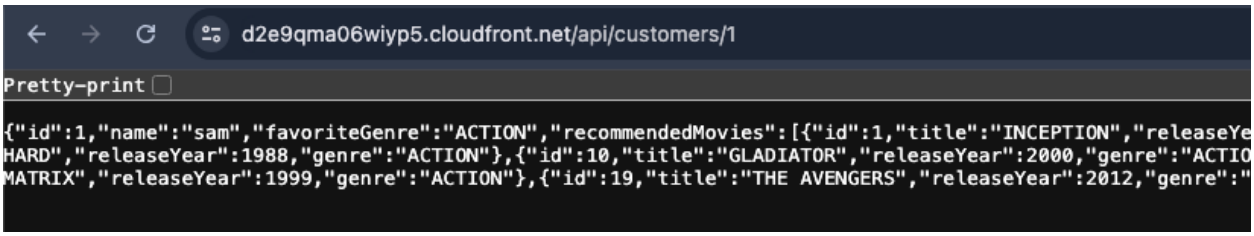
- Repeat the same for customer-service



- At this point, we can access the API via CloudFront

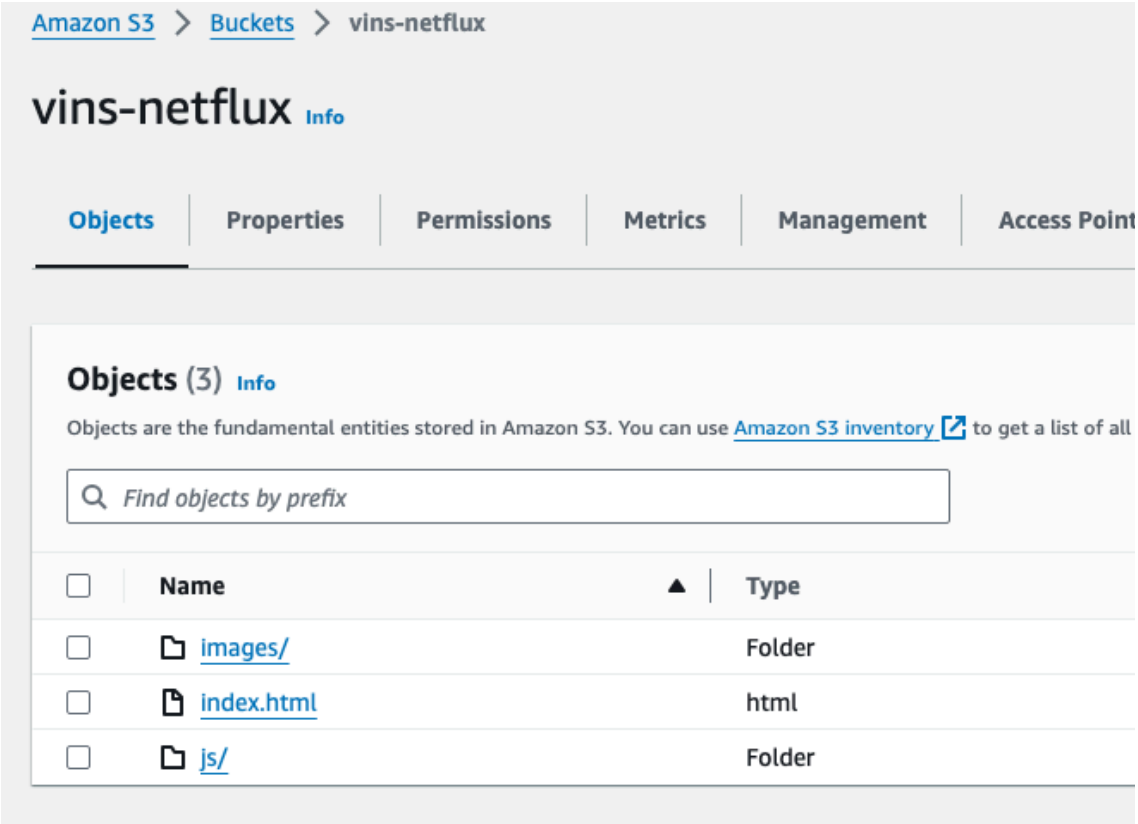


- We can also access the /api/customers/1. It also confirms that inter-service communication within the cluster works!



Front End

- Lets finally deploy the front end - html, js, img files.
- Copy the files I had shared and upload them under your S3 bucket.



- Access CloudFront URL

Netflux

Customer Profile

Name Sam

Favorite Genre ACTION

Recommended Movies | All Movies

#	Title	Release Year	Genre
1	Inception	2010	ACTION
2	Mad Max: Fury Road	2015	ACTION
3	Die Hard	1988	ACTION
4	Gladiator	2000	ACTION
5	The Dark Knight	2008	ACTION
6	The Matrix	1999	ACTION
7	The Avengers	2012	ACTION