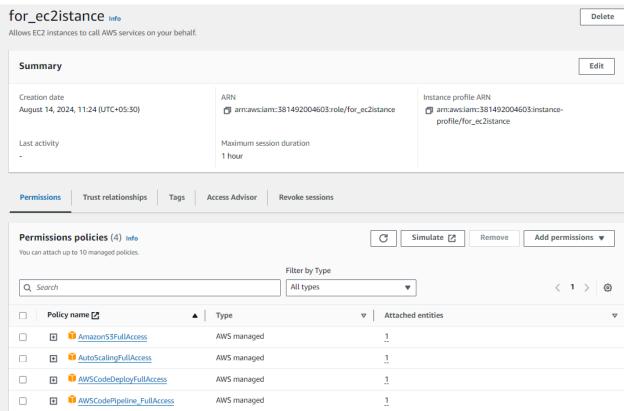
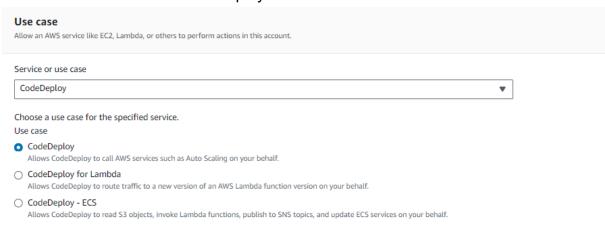
# Blue/Green Deployment

#### step1)let's create role for all

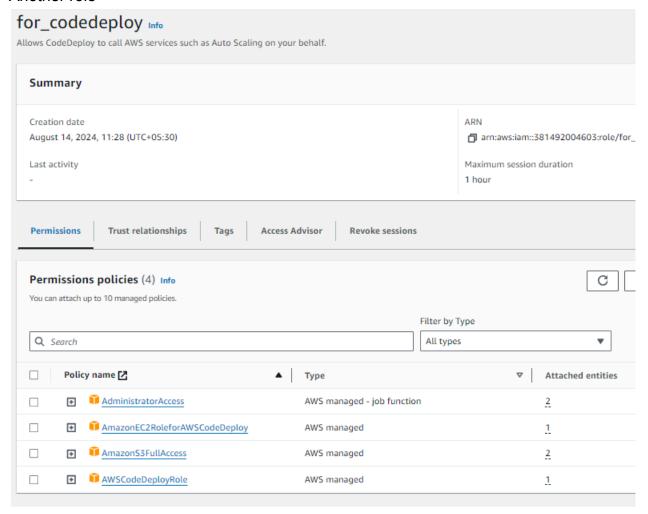
Go to iam role Create a role and give s3,codedeploy,pipeline,autoscaling



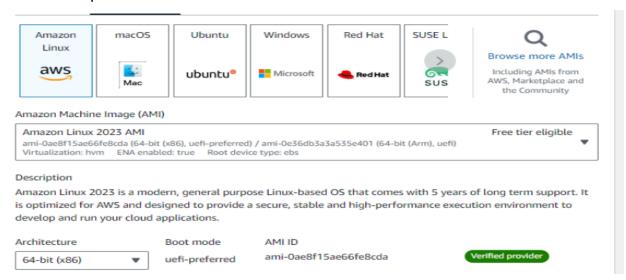
#### Create one more role for code deploy

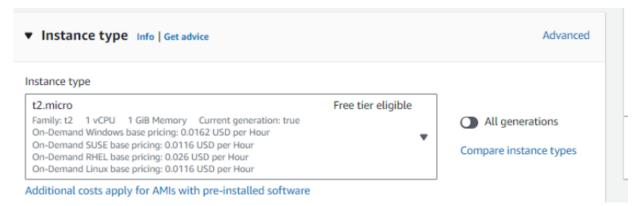


#### Another role

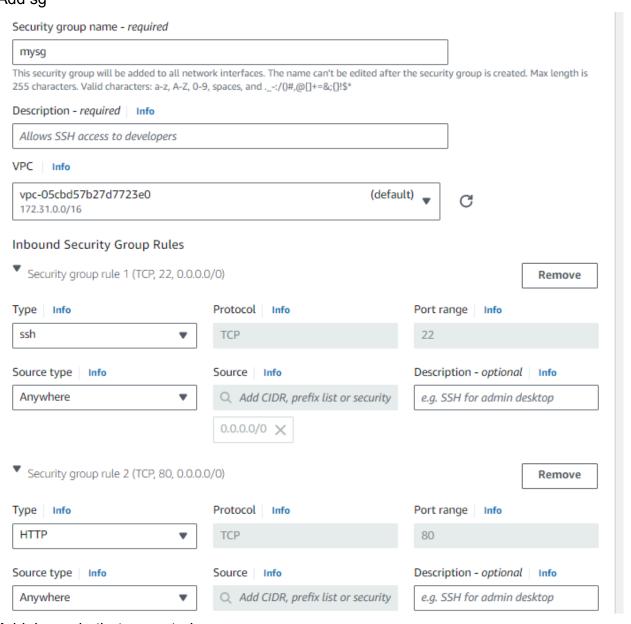


Step 2 : auto scaling group Create a template





# Add sg

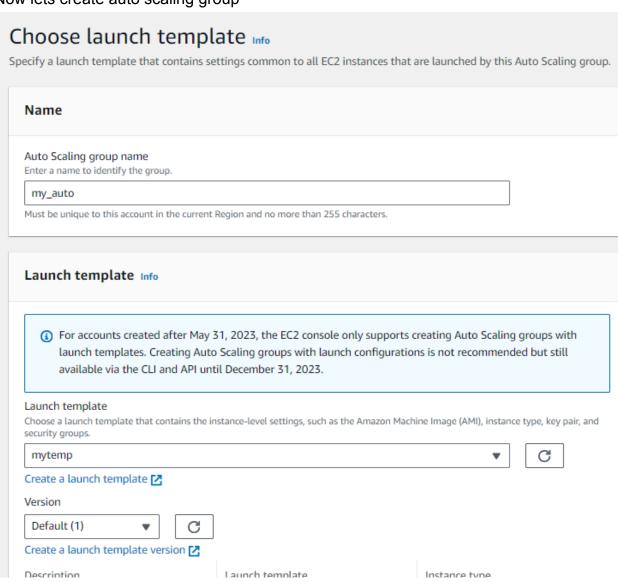


Add iam role that u created

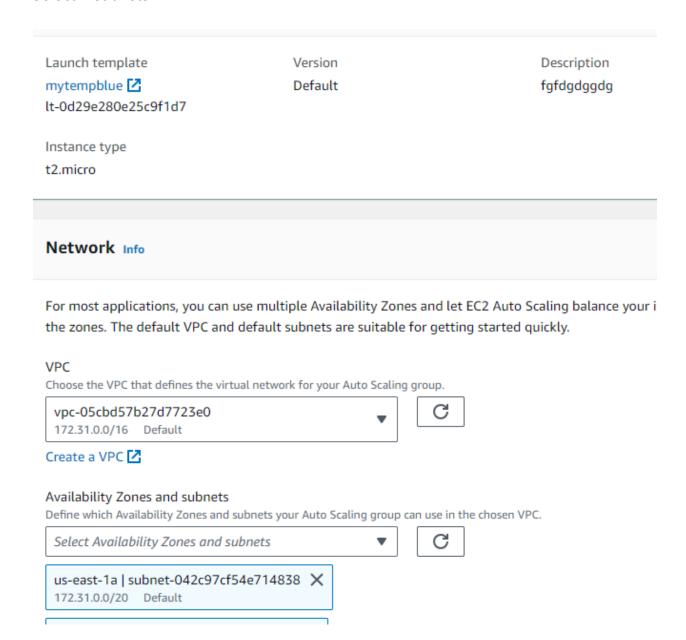


Add user data in advance option And paste it in your userdata options For github

Now lets create auto scaling group



#### Select 2 subnets



Attach new load balancer

Use the option	ns below to attach your A	uto Scaling group t	o an existing load ba	lancer, or to a new load balancer that	
Traffic to your Auto Scaling group will not be fronted by a load		O Attach to a balancer Choose from balancers.	n existing load your existing load	<ul> <li>Attach to a new load         balancer         Quickly create a basic load         balancer to attach to your Auto         Scaling group.     </li> </ul>	
	a new load balance ad balancer to create for attac		lling group.		
	**	* *		the load balancer is created. If you need a	
O Applica HTTP, HT	tion Load Balancer TTPS		Network Load Balancer     TCP, UDP, TLS		
Load balancer	r name e changed after the load balar	ncer is created.			
myauto1loa	d				
	get group	ners, you can configure	them from the Load Ba	alancing console 🔼 after your load balancer is	
created. Protocol	Port	Default	Default routing (forward to)		
НТТР	80	Create	Create a target group ▼		
			New target group name An instance target group with default settings will be created.		
		myaut	01		

Set desired capacity

#### Desired capacity

Specify your group size.

2

## Scaling Info

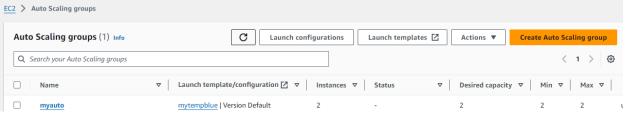
You can resize your Auto Scaling group manually or automatically to meet changes in demand.

#### Scaling limits

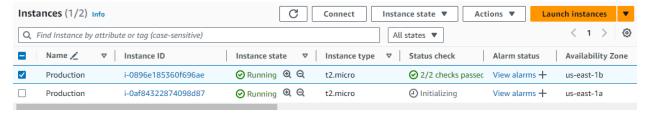
Set limits on how much your desired capacity can be increased or decreased.

# Min desired capacity A max desired capacity 2 Equal or less than desired capacity Equal or greater than desired capacity capacity

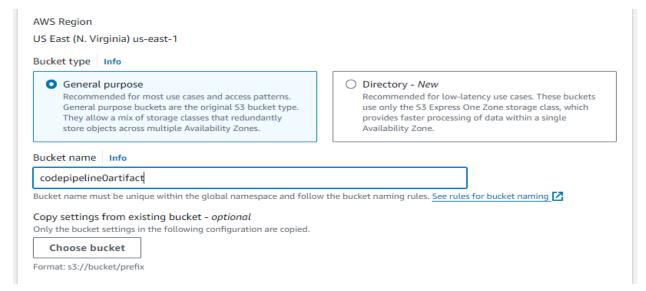
#### Next and click auto scaling grp



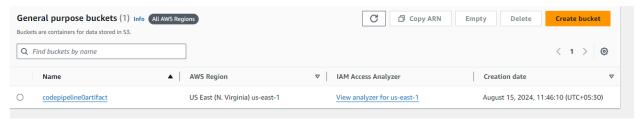
#### Wait for instance to launch



Now lets create a bucket

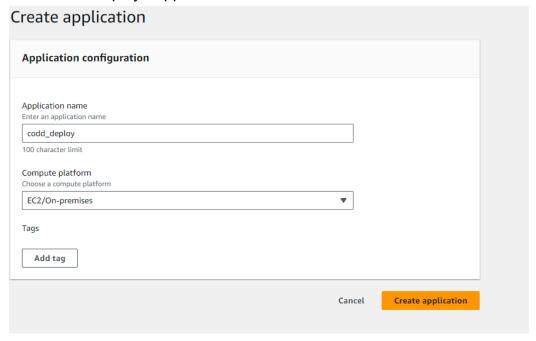


#### Click on create buck



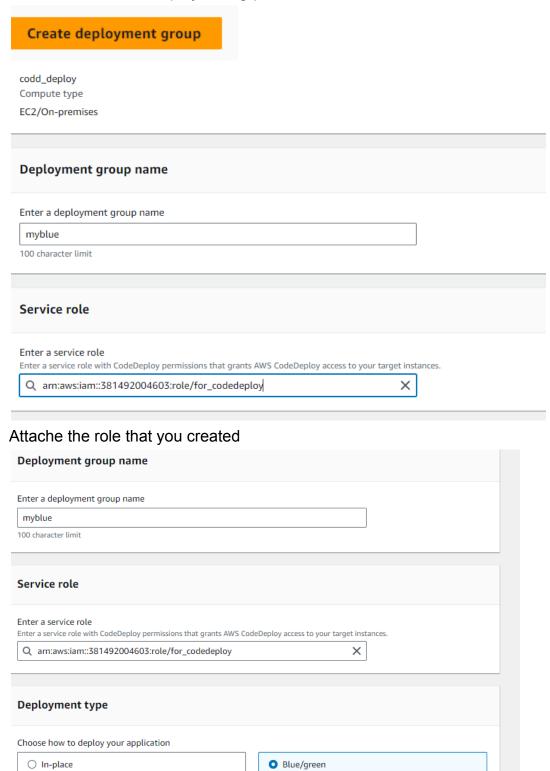
Now lets create an application

step 4 : let's create code deploy Got to code deploy >application



Click on create

# Now click on create deployment grp



Replaces the instances in the deployment group with new

Now select your auto scaling group

Updates the instances in the deployment group with the

#### **Environment configuration**

Specify the Amazon EC2 Auto Scaling groups or Amazon EC2 instances where the current application revision is deployed.

Automatically copy Amazon EC2 Auto Scaling group

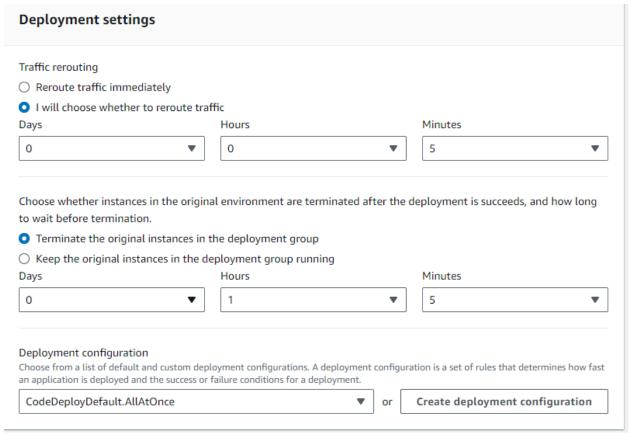
Provision an Amazon EC2 Auto Scaling group and deploy the new application revision to it. AWS CodeDeploy will create the Auto Scaling group by copying the one you specify here. Manually provision instances

I will specify here the instances where the current application revision is running. I will specify the instance for the replacement environment when I create a deployment.

Choose the Amazon EC2 Auto Scaling group where the current application revision is deployed.



#### Select all as give in the images

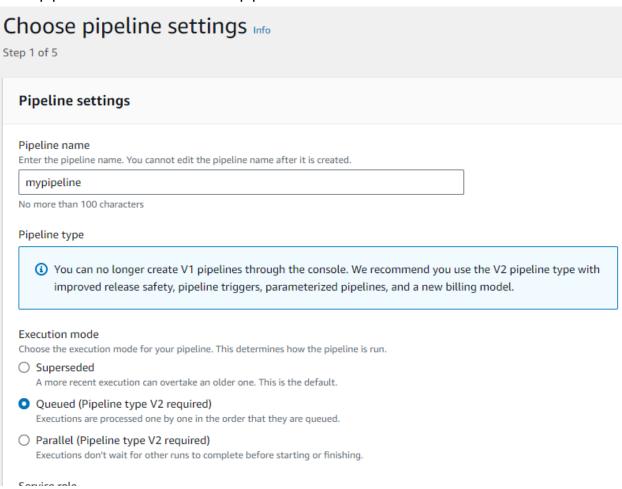


Select your target group

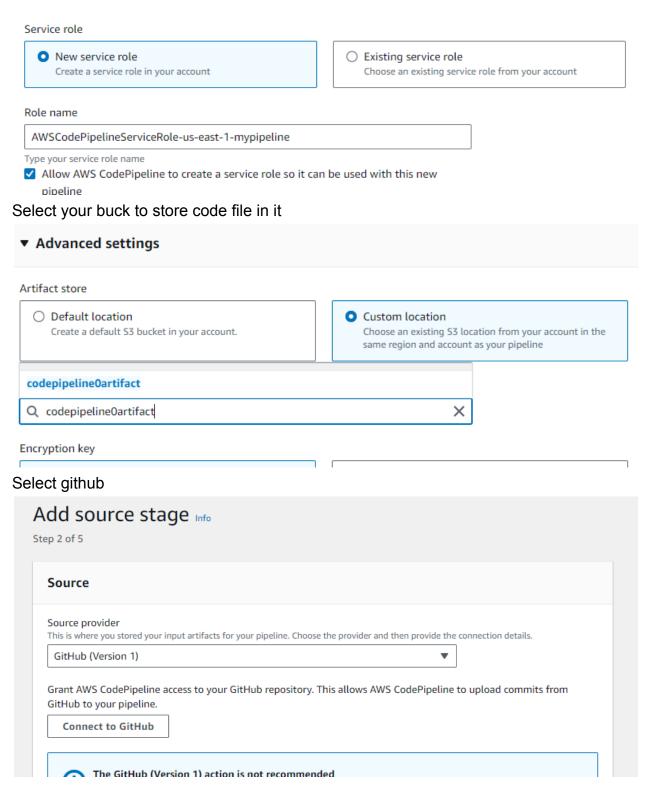
# Load balancer Select a load balancer to manage incoming traffic during the deployment process. The load balancer blocks traffic from each instance while it's being deployed to and allows traffic to it again after the deployment succeeds. ✓ Enable load balancing Load balancer type ✓ Application Load Balancer or Network Load Balancer Choose target groups ✓ myauto1 × Classic Load Balancer

Clci on create deployment group Will deploy this using code pipeline

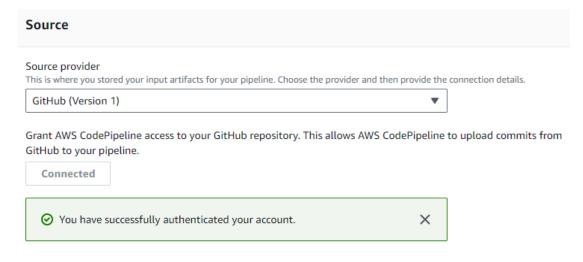
Go to pipeline click on create new pipe line



Select your service role



Click on connect

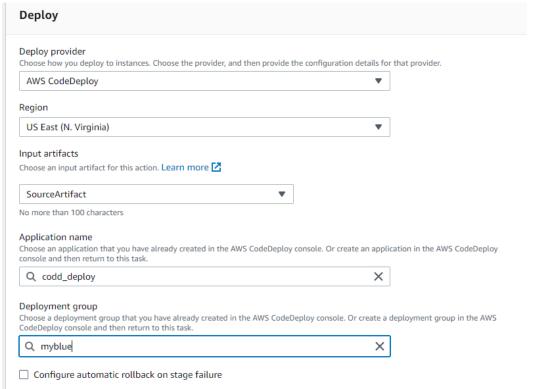


#### Select your repo and branch

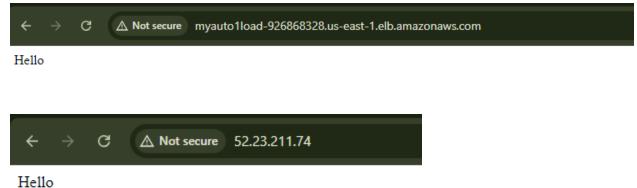


Change detection options

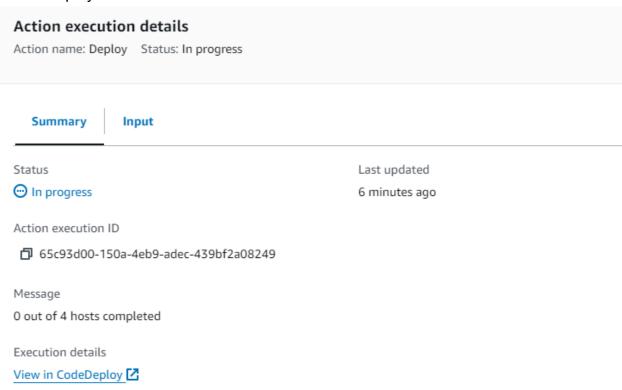
#### Select your code deploy



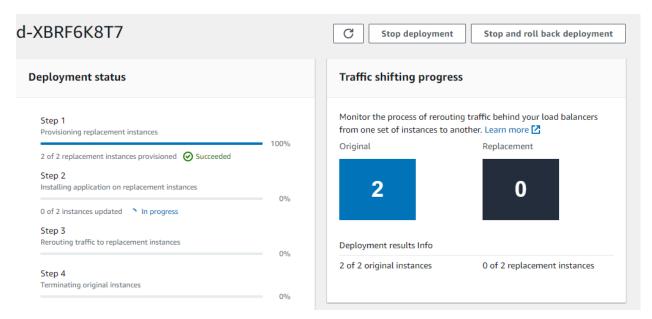
Click on next then click on next then click on create Load balancer is working fine



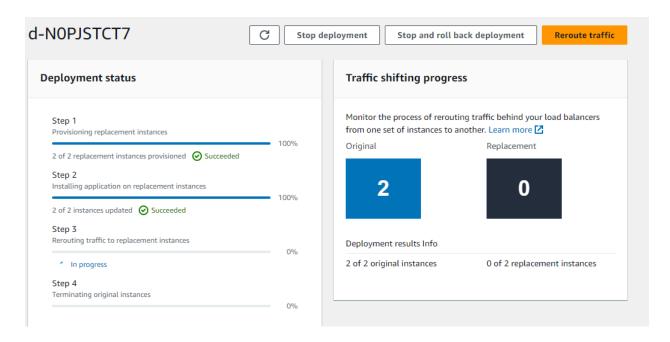
# To see deployment click on



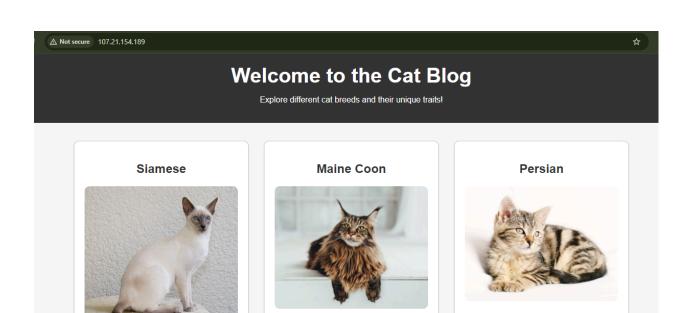
Here you can check



After some time you will see your



After that as we can see it success then our new version is deployed



The Maine Coon is one of the largest

domesticated cat breeds. It has a distinctive physical appearance and is

known for its friendly and intelligent

nature.

#### Click on reroute traffic on code deploy

The Siamese cat is one of the first

distinctly recognized breeds of Asian cat. They are known for their slender, elegant bodies, large ears, and striking blue eyes.

ent Reroute traffic

#### It take more times to configure the load balancer

# Welcome to the Cat Blog

Explore different cat breeds and their unique traits!





The Siamese cat is one of the first distinctly recognized breeds of Asian cat. They are known for their slender, elegant bodies, large ears, and striking blue eyes.

#### **Maine Coon**



The Maine Coon is one of the largest domesticated cat breeds. It has a distinctive physical appearance and is known for its friendly and intelligent nature.

#### Persian

The Persian cat is known for its long fur

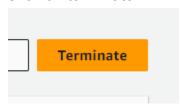
and round face. They are generally quiet and enjoy a calm and peaceful

environment.

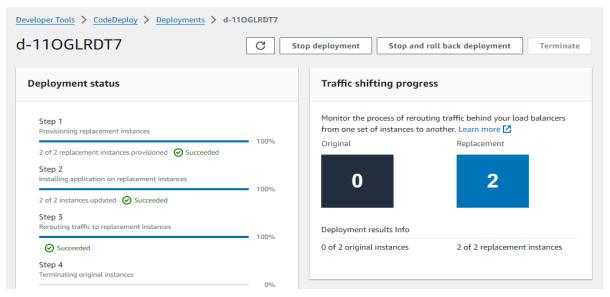


The Persian cat is known for its long fur and round face. They are generally quiet and enjoy a calm and peaceful environment.

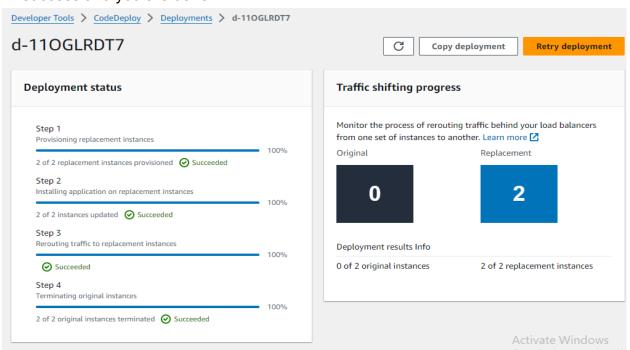
#### Click on terminate



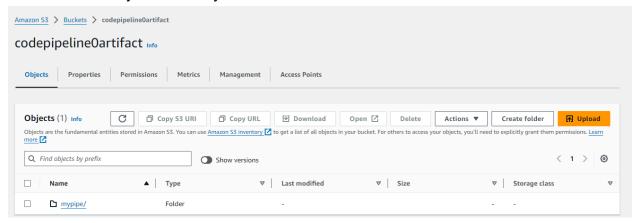
#### And even remove the production instance



#### All success and you are done



#### Inside s3 bucket you will see your code file or artifact



Good work !!!
Keep it up !!!
Delete what server you created !!!!
Auto scaling group will be deleted automatically

Error correction
> sudo cat /var/log/user-data.log
Error was because of region

#### To check if the user data scripts is working or not

```
#!/bin/bash -xe

# Update and install httpd
sudo yum update -y
sudo yum install httpd -y
echo 'Hello' | sudo tee /var/www/html/index.html
sudo systemctl restart httpd

## Code Deploy Agent Bootstrap Script ##

exec > >(tee /var/log/user-data.log | logger -t user-data -s
2>/dev/console) 2>&1
AUTOUPDATE=false

function installdep() {
  if [ "${PLAT}" = "ubuntu" ]; then
      sudo apt-get -y update
```

```
jq awscli ruby
function platformize() {
   echo "Ubuntu server OS detected"
   export PLAT="ubuntu"
```

```
echo "CodeDeploy Agent installation script failed, please investigate"

rm -f /tmp/install

exit 1

fi

}

platformize

installdep

install_codedeploy_agent
```

## To check if the codedeploy agent is running or not

```
[ec2-user@ip-172-31-10-149 ~]$ sudo service codedeploy-agent status
The AWS CodeDeploy agent is running as PID 14071
[ec2-user@ip-172-31-10-149 ~]$
```

