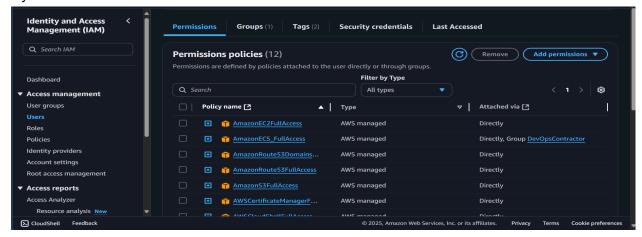
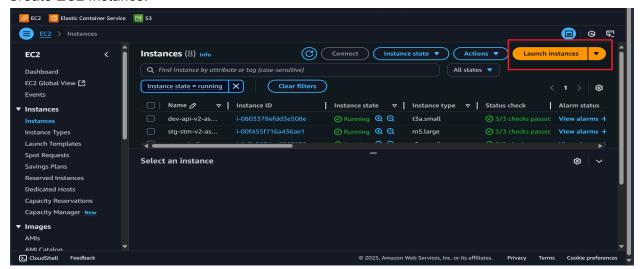
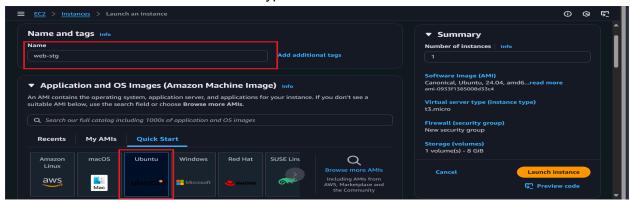
# Check IAM User Has EC2 ACCESS: My user has EC2FULLACCESS

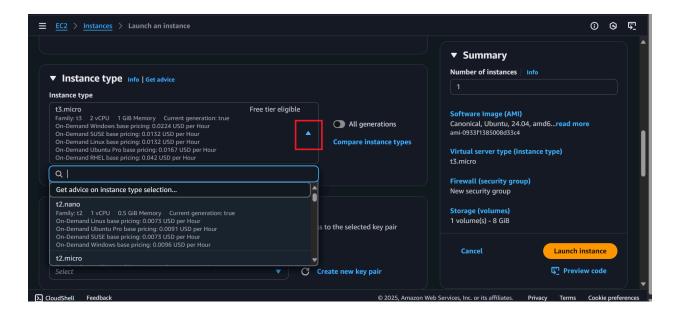


#### Create EC2 Instance:

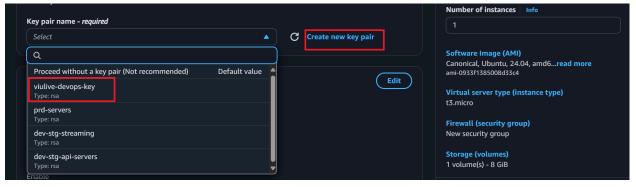


#### Add the Instance name and distribution type

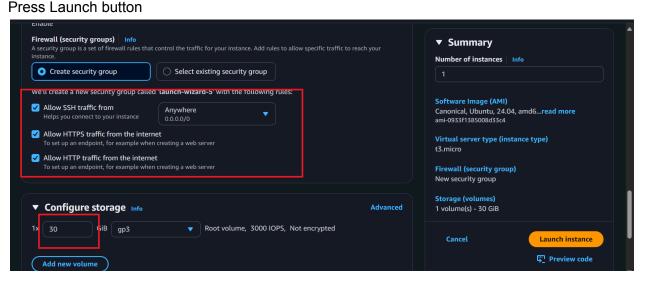




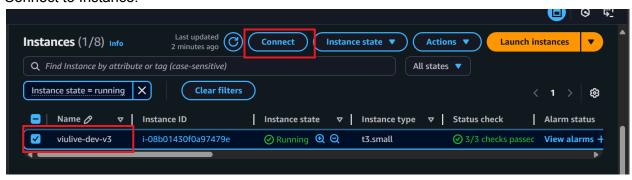
## Create New Key Pair or select from already present keys



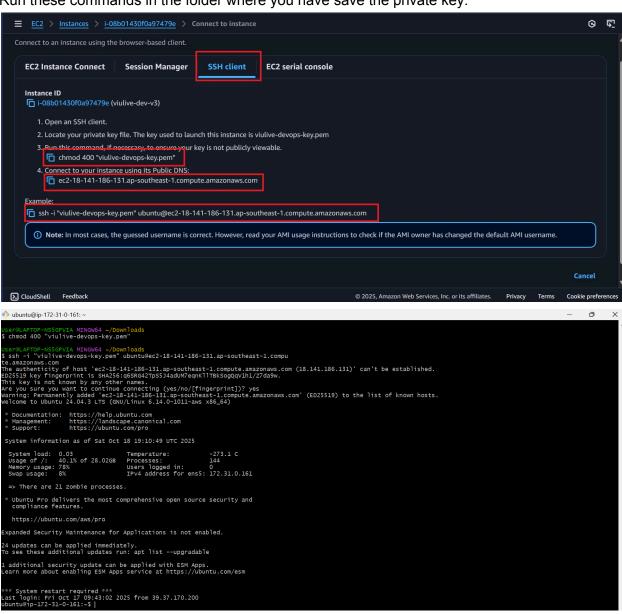
## Allow Ports and Update storage



#### Connect to Instance:



Run these commands in the folder where you have save the private key:



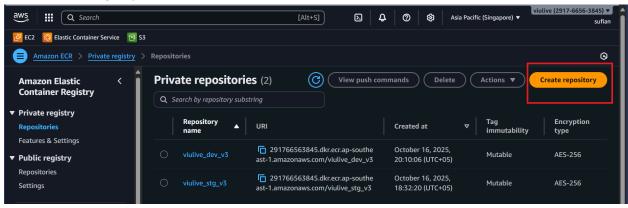
## Install docker on Instance:

## sudo apt update

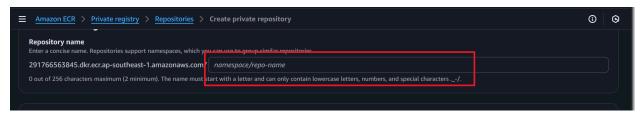
sudo apt install docker.io

```
ubuntu@ip-172-31-0-161:-$ sudo apt install docker.io
Reading package lists... Done
Reading state information... Done
Reading state information... Done
docker.io is already the newest version (28.2.2-Oubuntu1-24.04.1).
O upgraded, 0 newly installed, 0 to remove and 24 not upgraded.
Ubuntu@ip-172-31-0-161:-5 |
```

## Create ECR Registry:



#### Add name

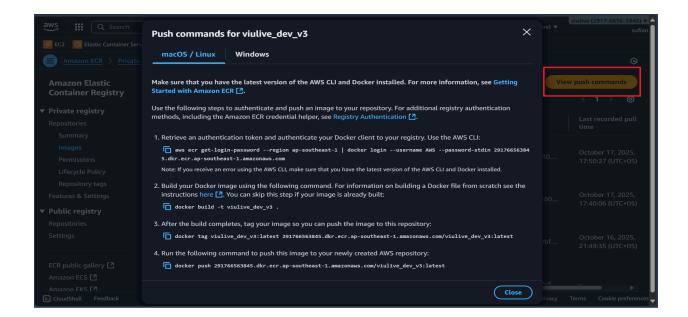


#### Select Create Button



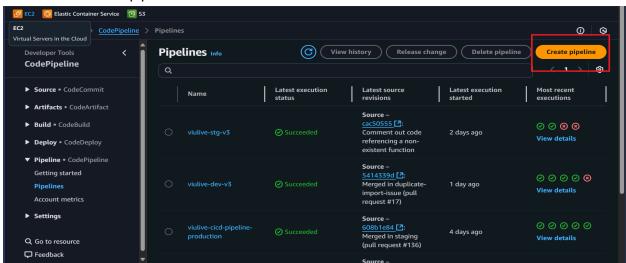
Click on View Push commands

These commands are useful for pipeline or manual push to ECR

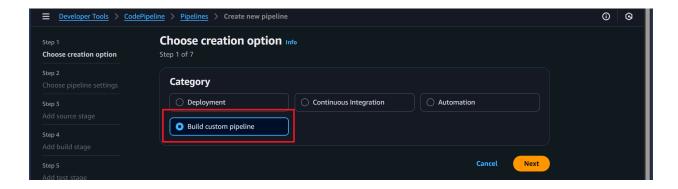


#### Create Pipeline:

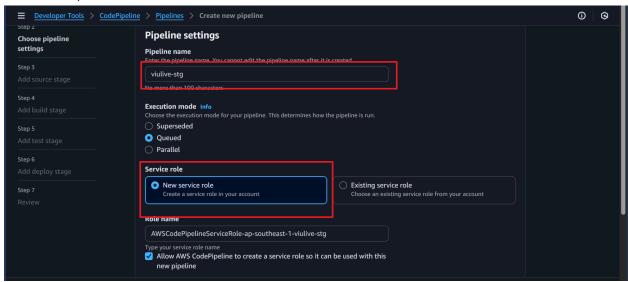
Click on the Create pipeline button



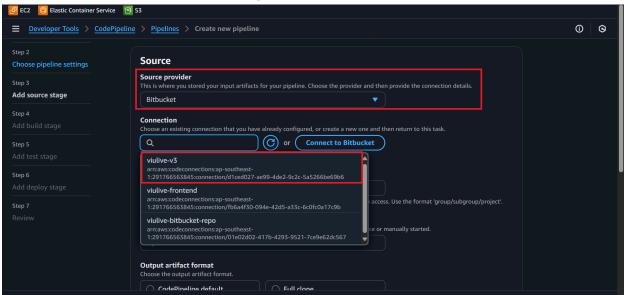
Select Custom Pipeline



Add Pipeline Name and Select Default New service role (For custom role click on Existing service role)



## Select The Source Provider and Existing Connection

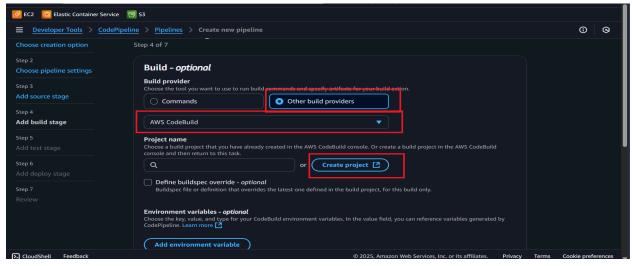


#### Select Repo Name and Default Branch

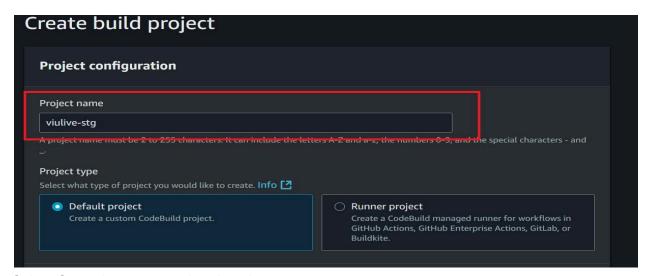


#### Create build:

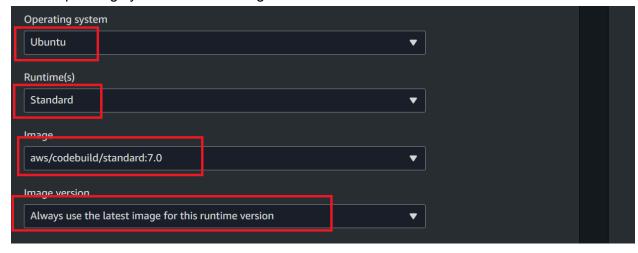
Select AWS CodeBuild and Create Project



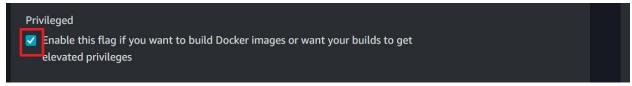
Add Project Name:



Select Operating system related settings



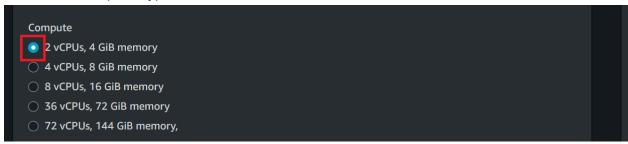
#### Select Docker Privileges



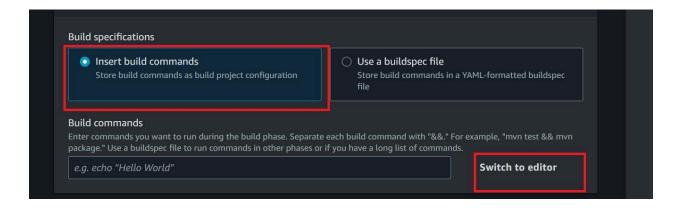
## Add VPC Setting



## Select The Compute Type



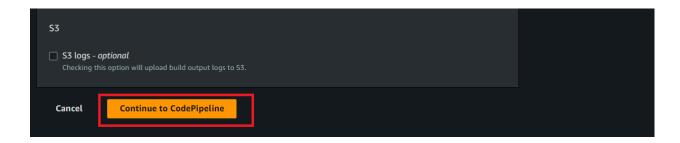
Select the Insert Build Commands and switch to editor



```
version: 0.2
                                                                                         圕
                                                                                               ķΞ
       variables:
         AWS_REGION: "ap-southeast-1"
ACCOUNT_ID: "291766563845"
REPO_NAME: "viulive_dev_v3"
         IMAGE TAG: "latest"
         EC2_USER: "ubuntu"
         commands:
            - echo "Logging in to Amazon ECR..."
            - aws ecr get-login-password --region $AWS REGION | docker login --username AWS --p.
       build:
         commands:
            - echo "Building Docker image..."
            - docker build -t $REPO_NAME .
     bue parra:
       commands:
                                                                                       囲
                                                                                             冱
         - echo "Logging in to Amazon ECR..."
         - aws ecr get-login-password --region $AWS REGION | docker login --username AWS --p
     build:
       commands:
         - echo "Building Docker image..."
0 •
         - docker build -t $REPO NAME .
         - echo "Tagging Docker image..."
         - docker tag $REPO NAME:latest $ACCOUNT ID.dkr.ecr.$AWS REGION.amazonaws.com/$REPO
       commands:
8 🔻
         - echo "Pushing Docker image to ECR..."
         - docker push $ACCOUNT ID.dkr.ecr.$AWS REGION.amazonaws.com/$REPO NAME:$IMAGE TAG

    echo "✓ Docker image successfully pushed to ECR!"

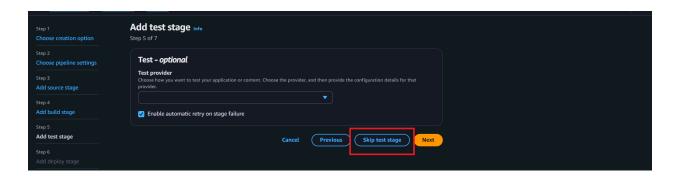
         - echo "Setting up SSH private key..."
        - chmod 600 /tmp/deploy_key.pem
        - echo "Deploying to EC2 instance..."
         - ssh -o StrictHostKeyChecking=no -i /tmp/deploy key.pem $EC2 USER@$EC2 HOST "
          docker login -u AWS -p \$(aws ecr get-login-password --region $AWS_REGION) $ACCOU
           docker pull $ACCOUNT_ID.dkr.ecr.$AWS_REGION.amazonaws.com/$REPO_NAME:$IMAGE_TAG &
          docker stop $REPO_NAME || true &&
           docker rm $REPO NAME || true &&
          docker run -d --name $REPO_NAME -p 81:3000 $ACCOUNT_ID.dkr.ecr.$AWS_REGION.amazon
v artifacts:
```



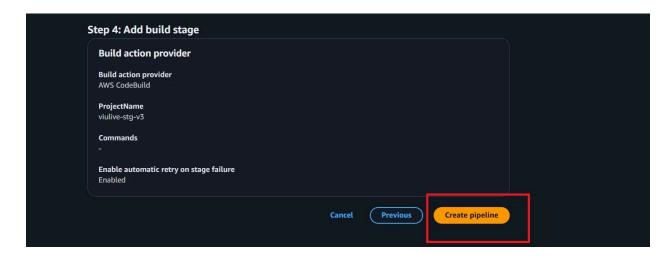
## Select the Build Project



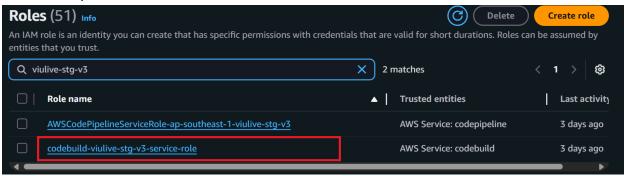
## Skip Other stages



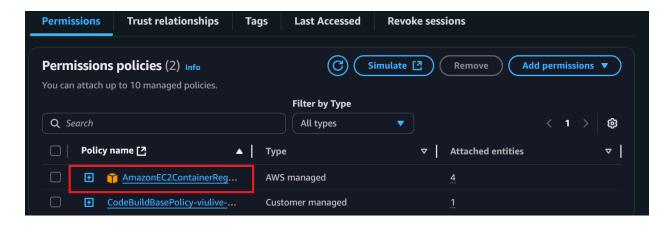
## Click on Create Pipeline



## Find CodePipeline Role



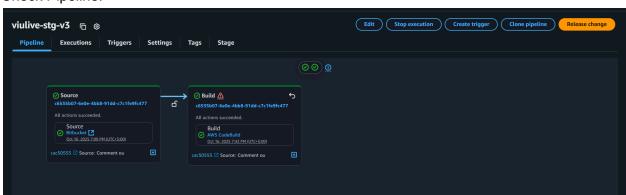
## Add this policy



#### On EC2 Install and configure aws:

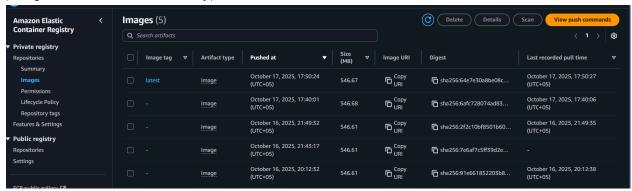
```
2 curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"
3 unzip awscliv2.zip
4 sudo apt install unzip
5 unzip awscliv2.zip
6 sudo ,/aws/install
7 aws --version
8 aws configure
```

#### Check Pipeline:



### Check Registry:

(Images are stored successfully)



#### Check EC2 For containers:



#### Target Groups (Two pipelines and Two instances)

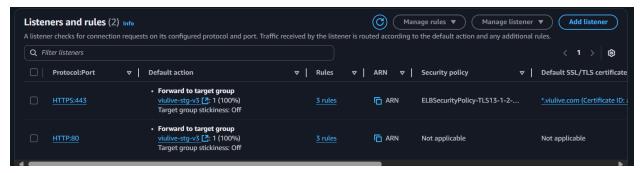


#### Add Loadbalancer:

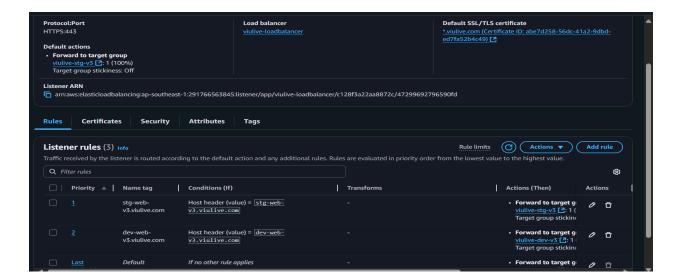


#### Create Listener and rules:

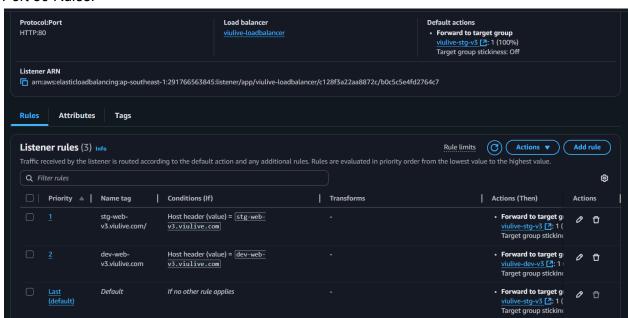
I'm using the Host header to filter two domains and send request to different domains



#### Port 443 Rules:



#### Port 80 Rules:

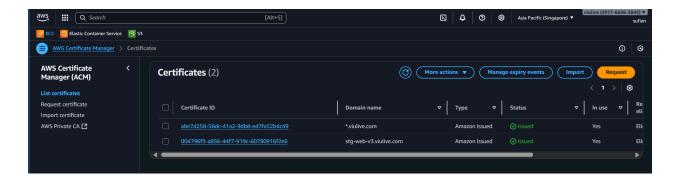


## Route 53 Configuration:

#### Add A record and connect it to loadbalancer



#### Generate Certificate:



#### Attach Certificate to load balancer:

