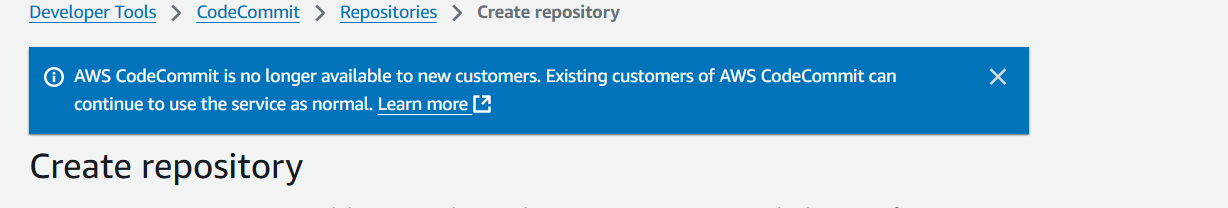
**AWS Task-5**

**Task Description:**

Deploy a simple web application using AWS code commit, code build and deploy & access via browser and automate via codepipeline.

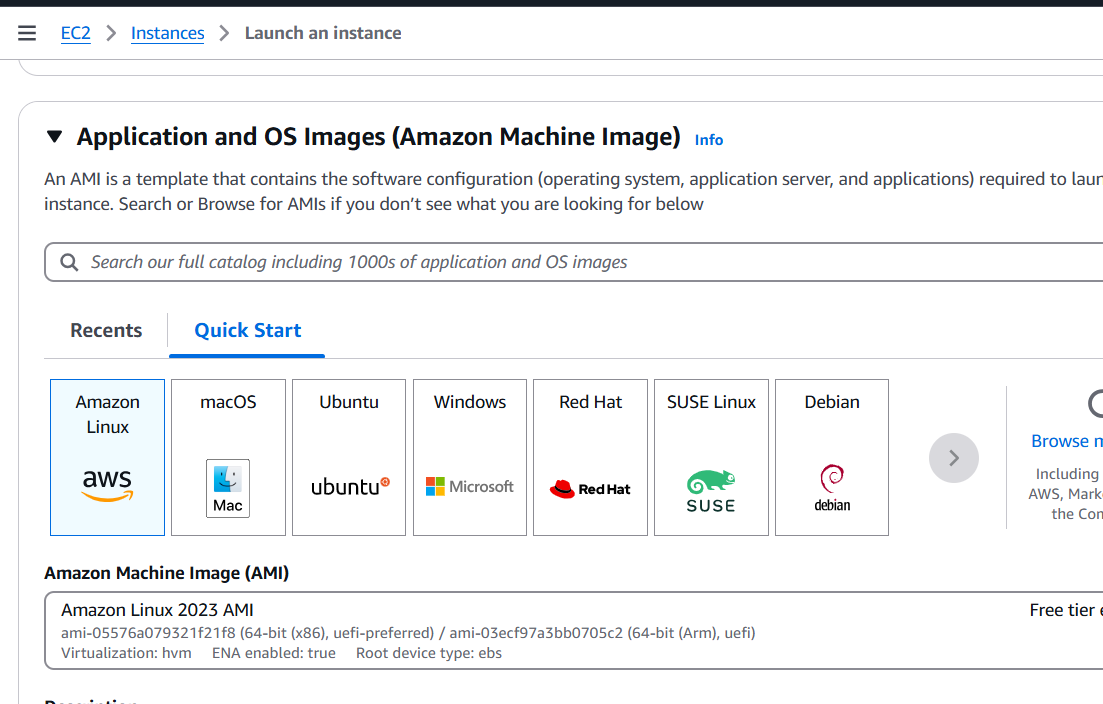
**Explanation:**

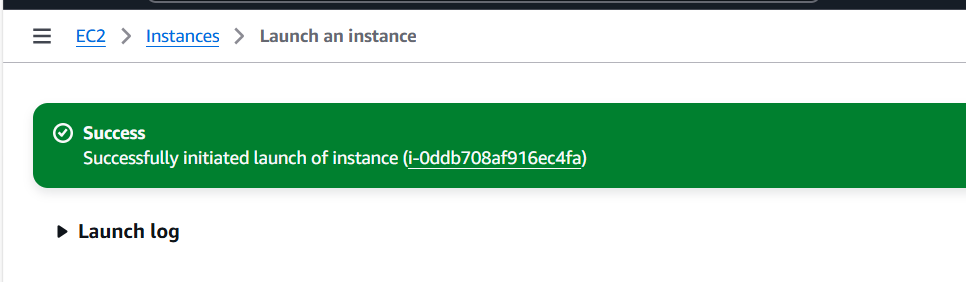
AWS CodeCommit is no longer available to new customers. Hence it is not used.

**Note : **

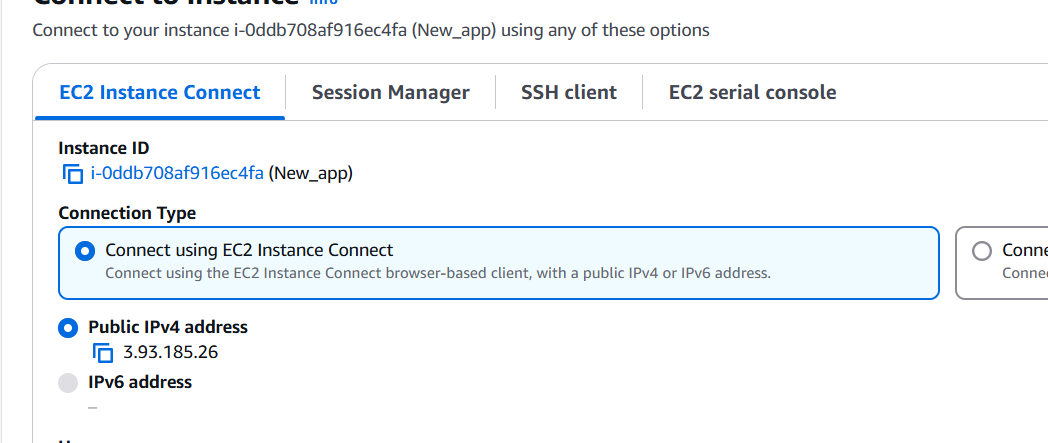
1. Launch an EC2 instance in AWS console.

EC2 > Launch instance > Name – New\_app > AMI – amazon linux > instance type – t2.micro > keypair – choose the existing or create new > Network settings – allow http and ssh > launch instance.



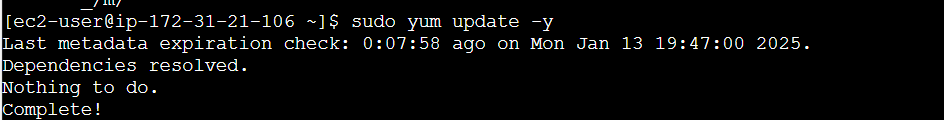


Connect using EC2 instance connect.

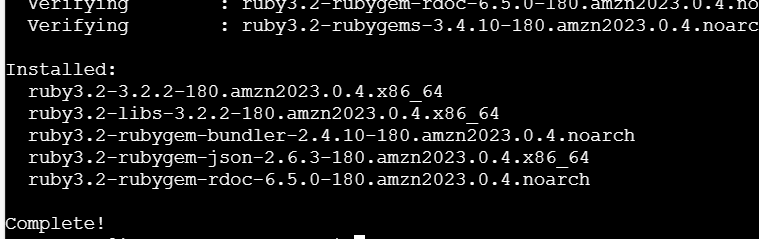


Use the following commands to start the agent for code deploy.

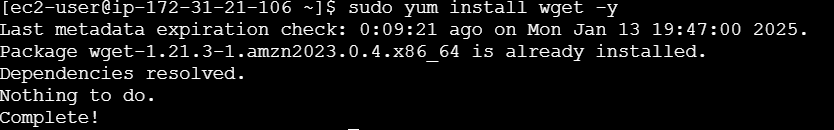
sudo yum update -y



sudo yum install ruby -y

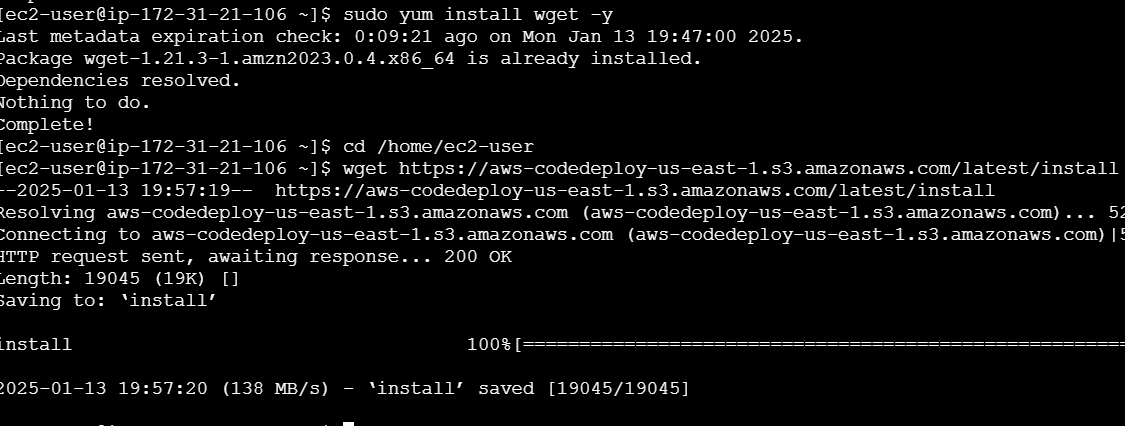


sudo yum install wget -y



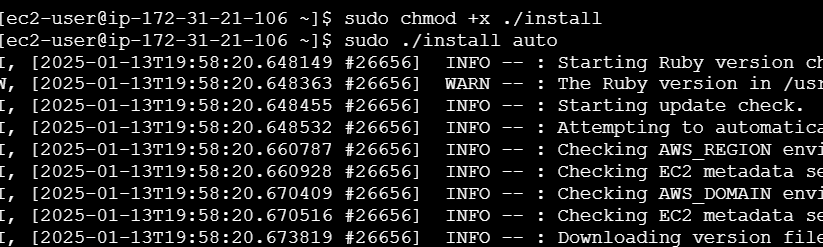
cd /home/ec2-user

wget <https://aws-codedeploy-us-east-1.s3.amazonaws.com/latest/install>



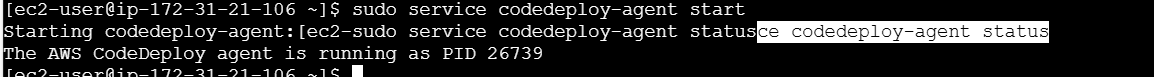
sudo chmod +x ./install

sudo ./install auto



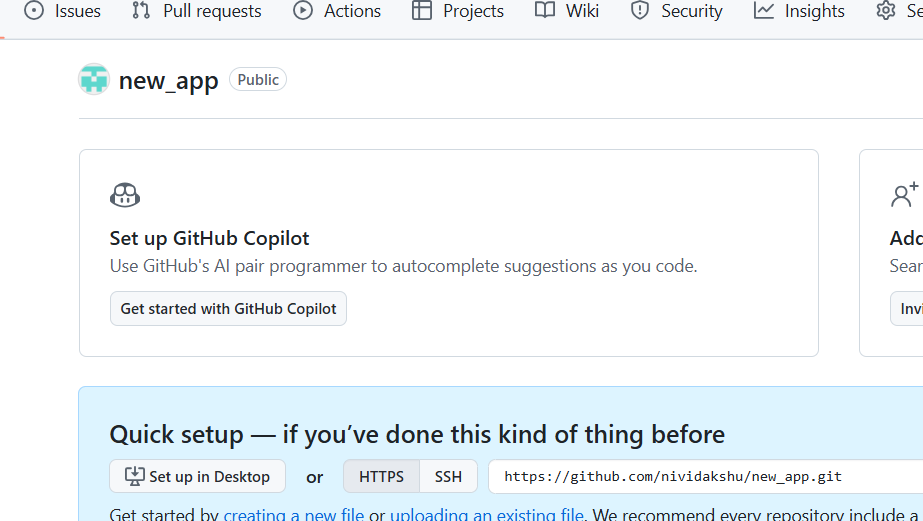
sudo service codedeploy-agent start

sudo service codedeploy-agent status



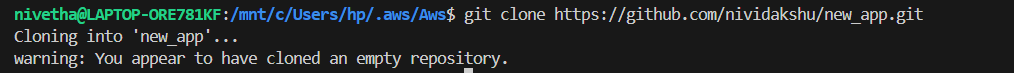
1. Create new github repo.

Login to github > create new repository



Clone the repository locally.

git clone <https://github.com/nividakshu/new_app.git>

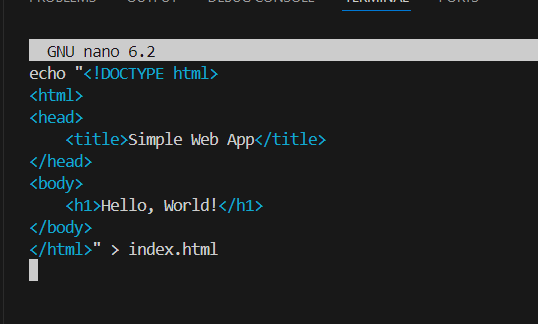


Prepare web application

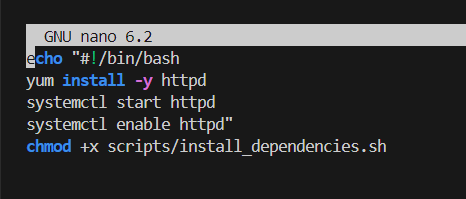
cd new\_app

nano index.html

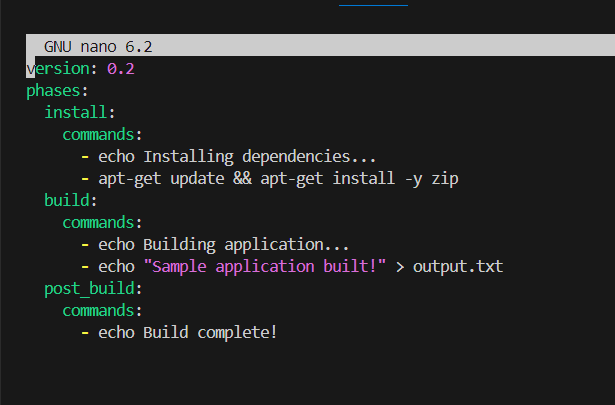




Add deployment scripts - install\_dependencies.sh



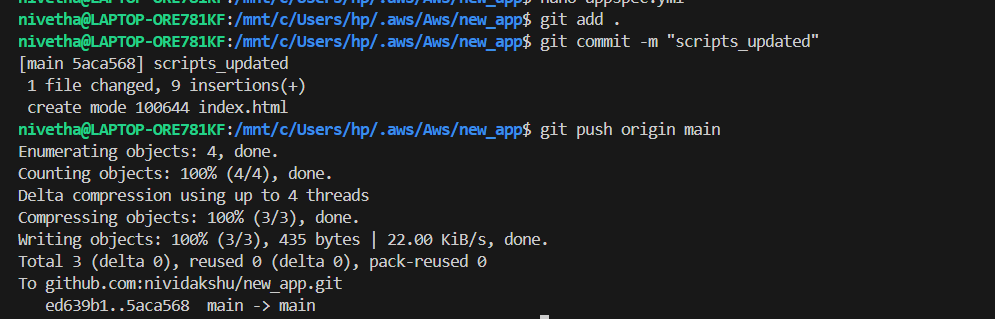
nano appspec.yml



Commit and push to github

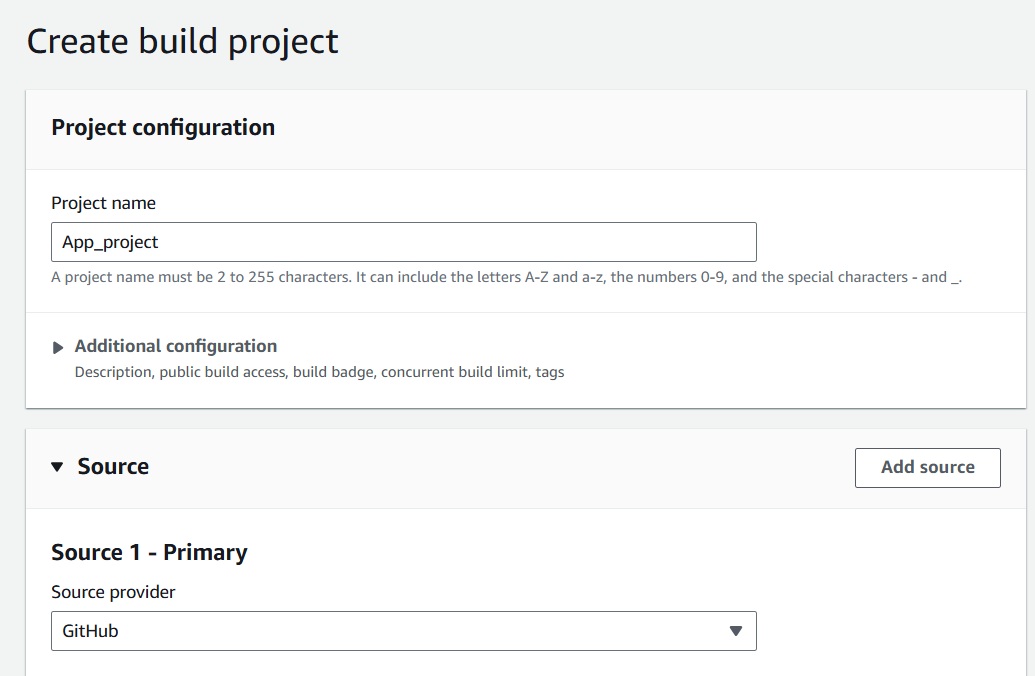
git add .

git commit -m "Initial commit with scripts"

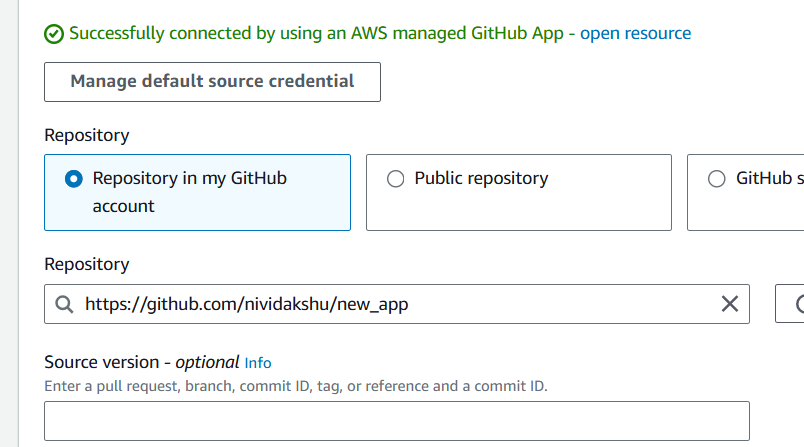


1. Aws code build

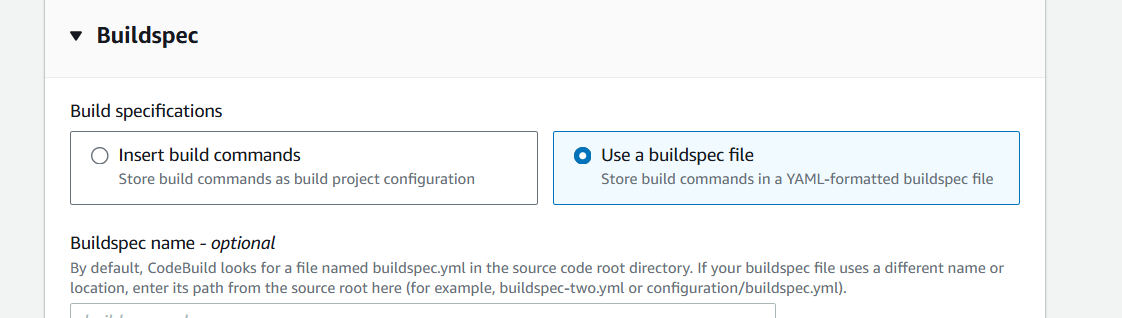
Navigate to code build > Build projects > create project> Name - App\_project > source – github



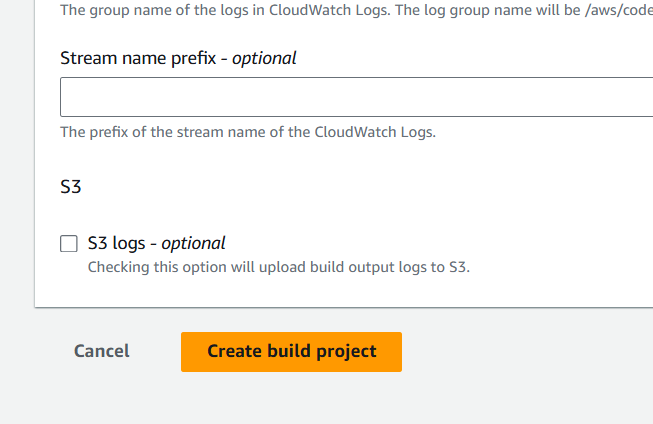
Connect and choose repository

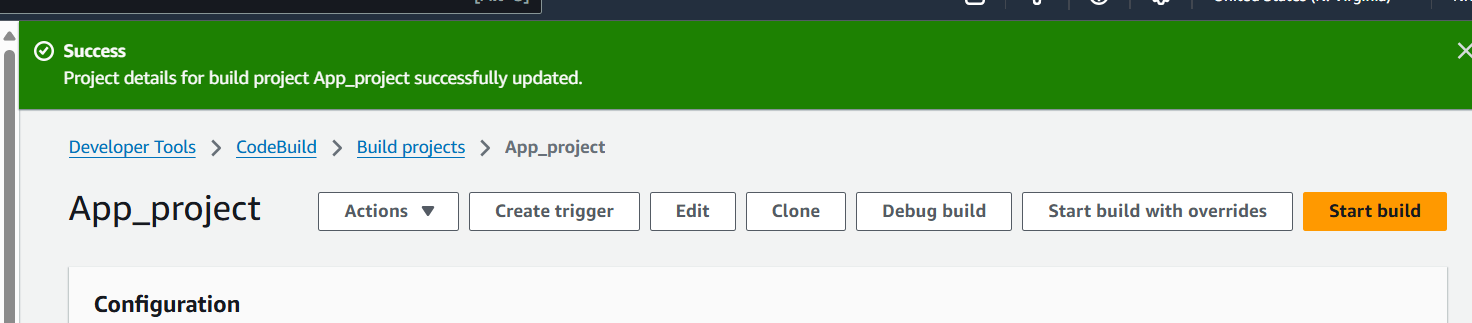


Use a default buildspec file

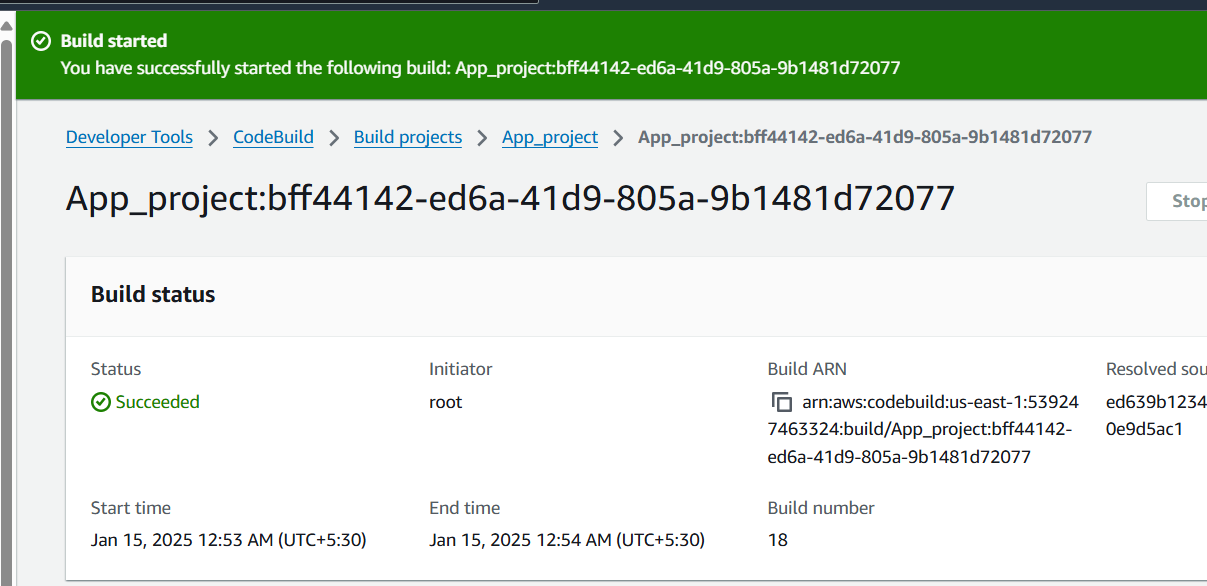


Create build project



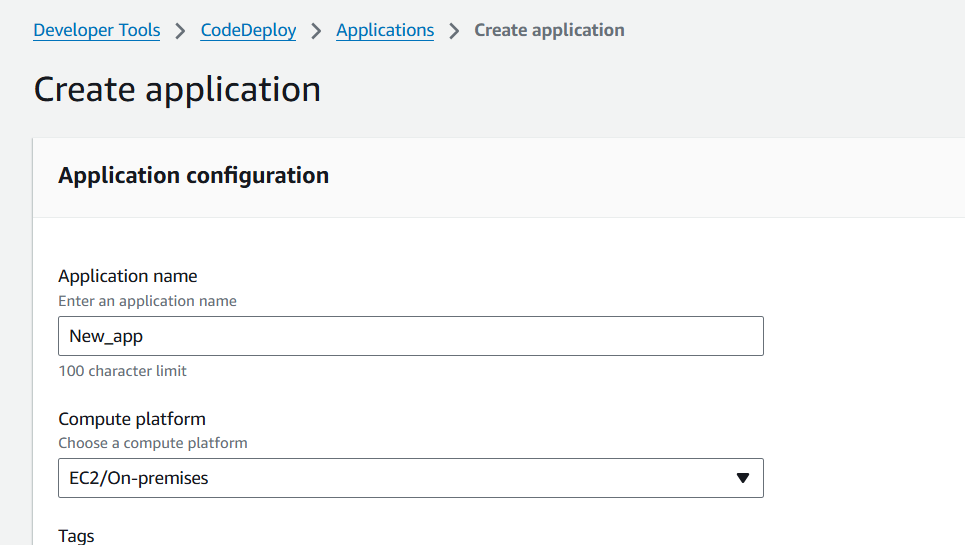


Click start build.

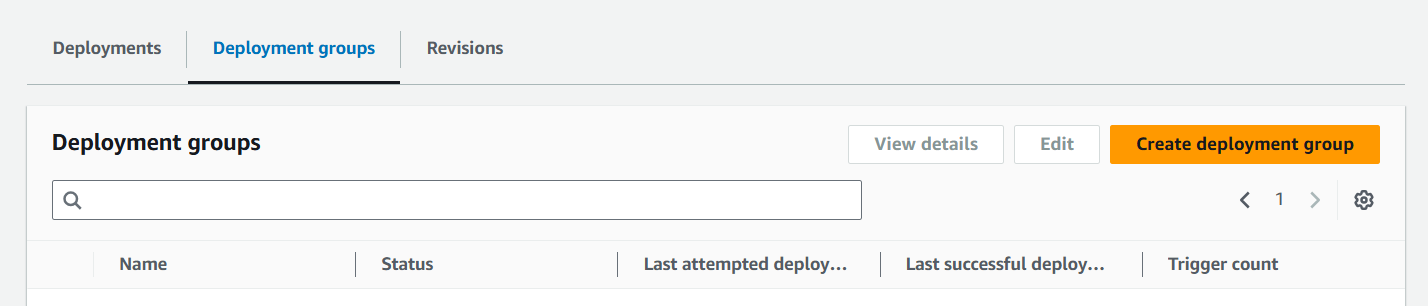


1. Code deploy

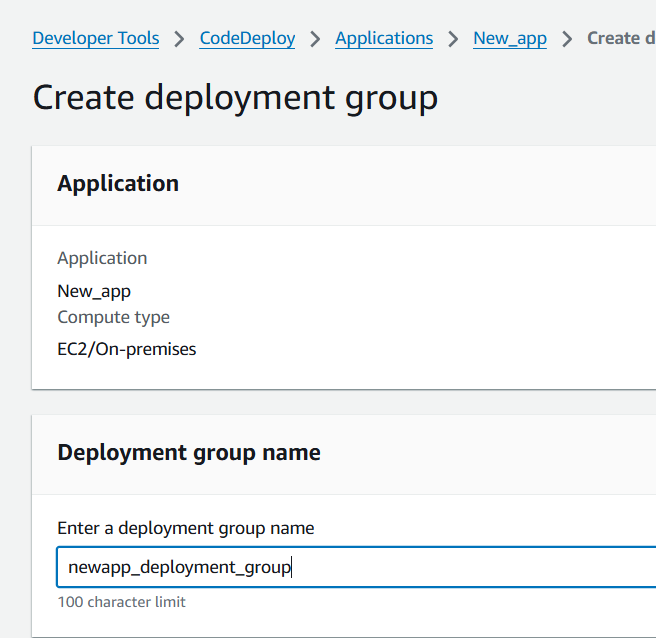
Navigate to code deploy > create application > Application name – New app > Compute platform: EC2/On-Premises



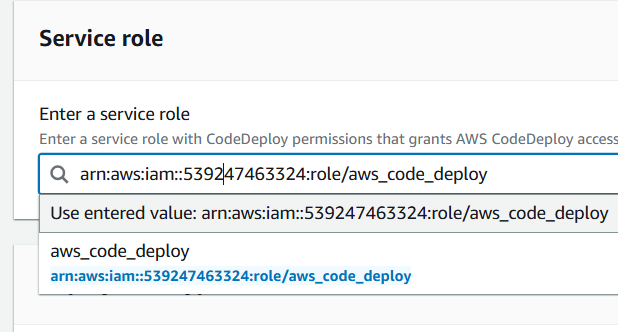
Click create deployment group



Deployment group - newapp\_deployment\_group

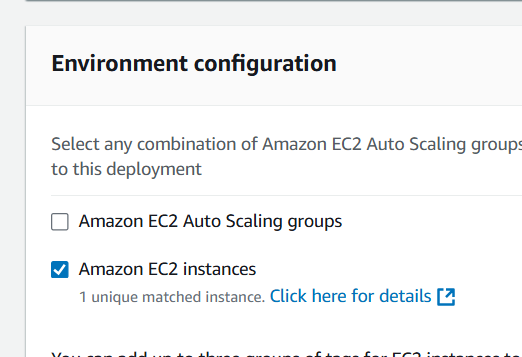


Choose the service role

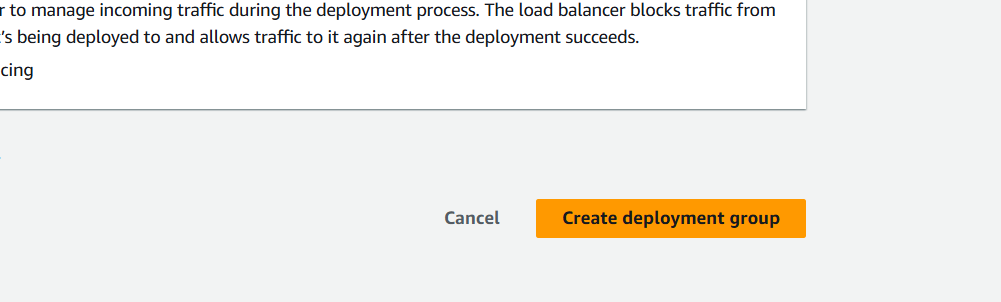


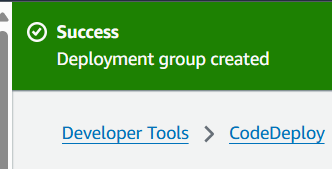
Deployment type – in place

Environment configuration – Amazon EC2 instance



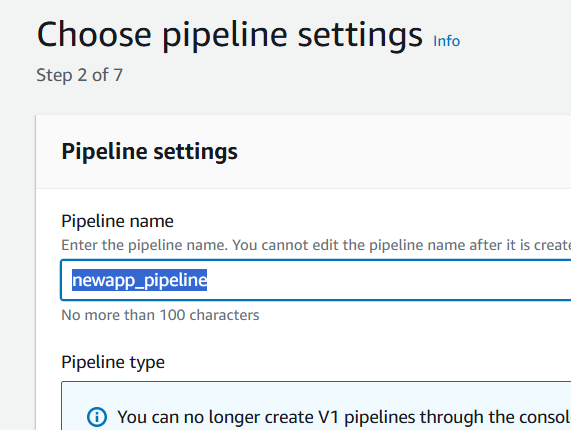
Click create deployment group.

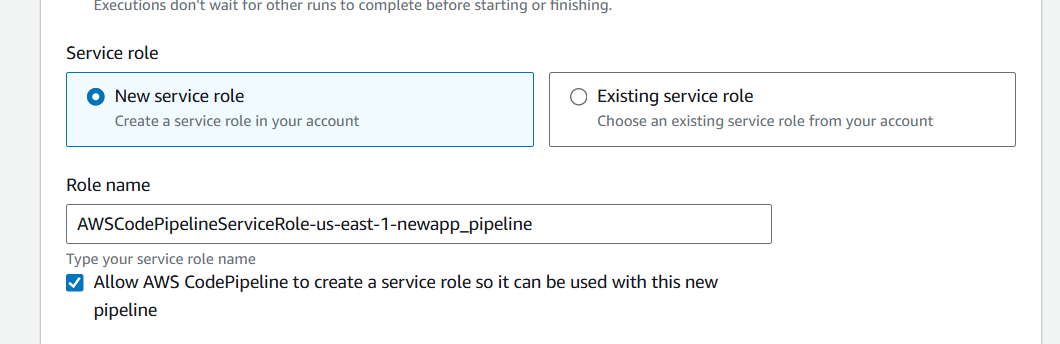




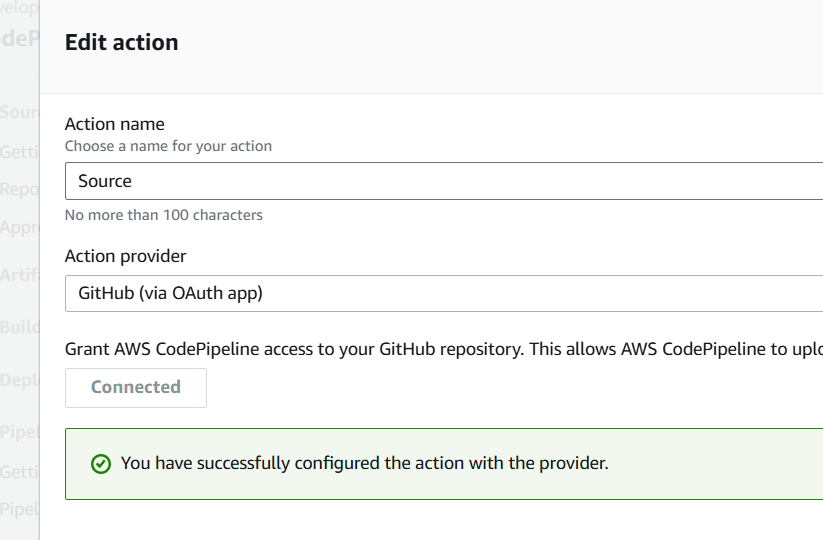
1. AWS Code pipeline

Navigate to code pipeline > create pipeline > build custom pipeline > pipeline name - newapp\_pipeline

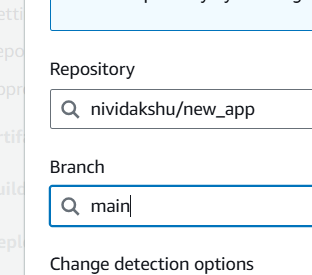




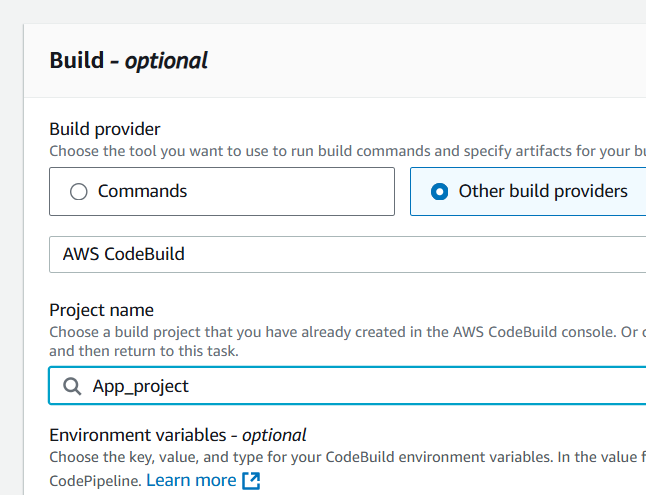
Source – github



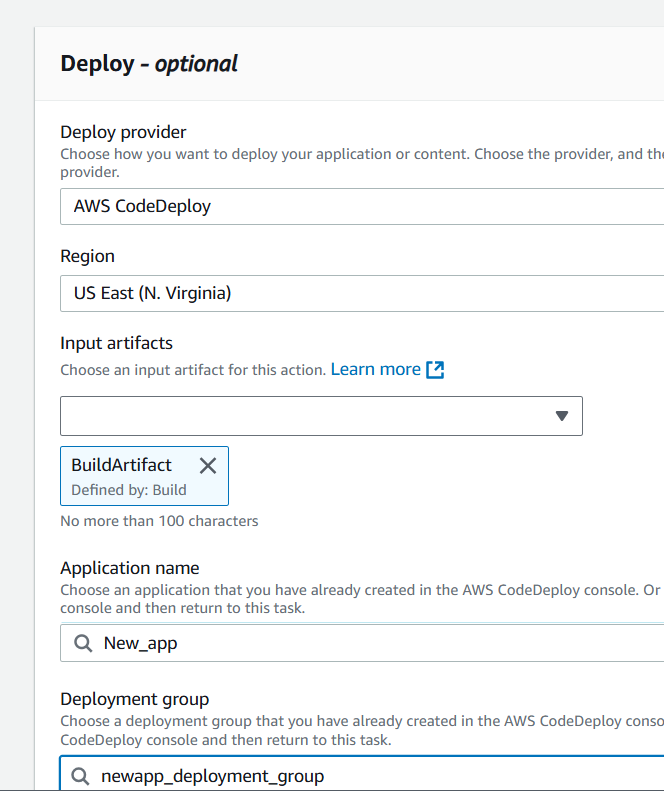
Choose the repo and branch



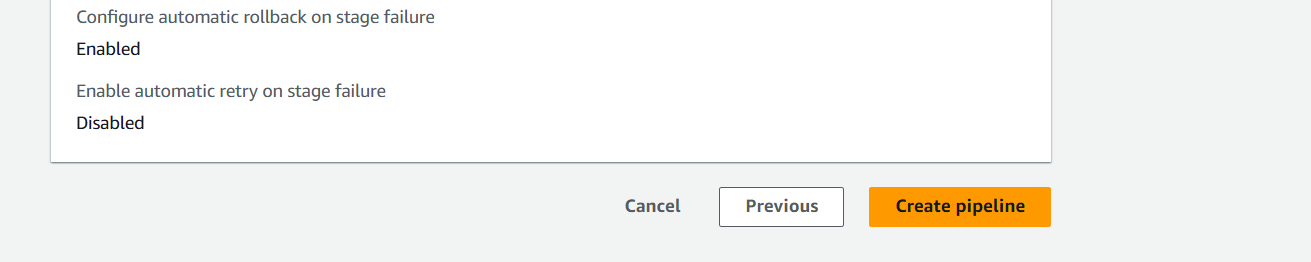
Build > other build providers > AWS code build > select the created project

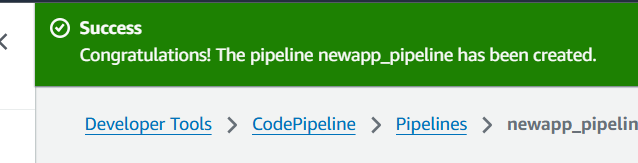


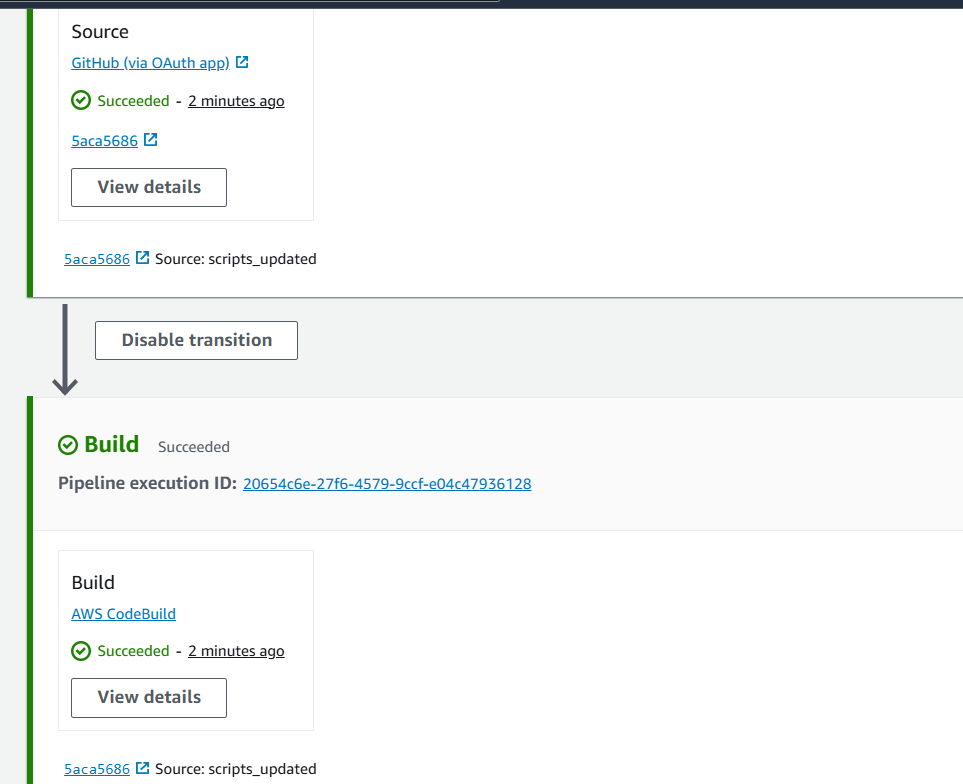
Select AWS code deploy, created application and deployment group.



Click create pipeline.







1. Access the webserver using EC2 publc v4 address

