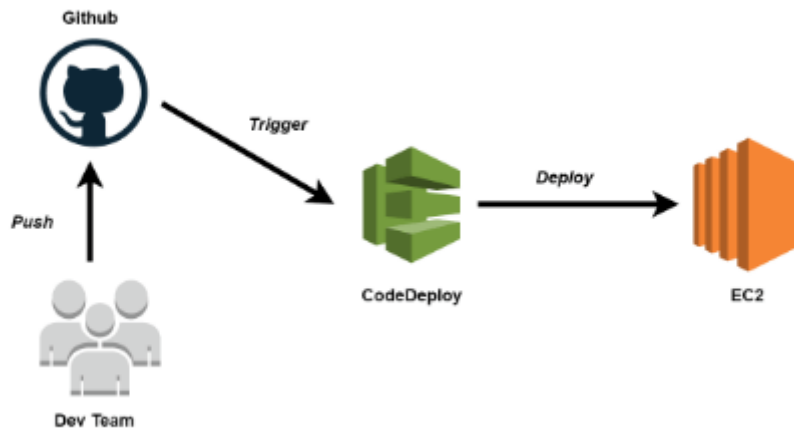


Steps to Deploy Web Application Using AWS Infrastructure

- The below architecture where developers team code is saved in github and by using codedeloy ec2 instances and github is integrated to autodeloy the application.



- First created 2 IAM roles
 1. Instance- AmazonEC2RoleforAWSCodeDeploy(attached to instance)
 2. Code deploy service -AWSCodeDeployRole(attached to code deploy)
- Launched the instances with Amazon Linux 2 AMI image and instances type is t2.micro, select the amazonEC2RoleforAWSCodeDeploy IAM role in IAM role tab.
- In the user data the below script added to install codedeloy agent at boot time.

```
#!/bin/bash
sudo yum -y update
sudo yum -y install ruby
sudo yum -y install wget
cd /home/ec2-user
wget https://aws-codedploy-ap-south-1.s3.ap-south-1.amazonaws.com/latest/install
sudo chmod +x ./install
sudo ./install auto
sudo yum install -y python-pip
sudo pip install awscli
```

- In security group opened http port 80 in the inbound rule to allow the http traffic.

- Created application the codedeploy with the platform EC2 platform.
- Created deployment group and attached the service role(AWSCodeDeployRole) while creating, for high availability load balancer and autoscaling can be added , I selected single ec2 instance for deploy.
- Create a pipeline using codepipeline
 1. In the source stage, connected to github by selecting source provider as github and provided git repository and master branch of the code.

Connection
Choose an existing connection that you have already configured, or create a new one and then return to this task.

Q am:aws:codestar-connections:ap-south-1:942f X or Connect to GitHub

Repository name
Choose a repository in your GitHub account.

Q shayannnn/myapplication X

Branch name
Choose a branch of the repository.

Q master X

2. In add deploy stage provide created application and deployment group.

Deploy provider
Choose how you deploy to instances. Choose the provider, and then provide the configuration details for that provider.

AWS CodeDeploy ▼

Region

Asia Pacific (Mumbai) ▼

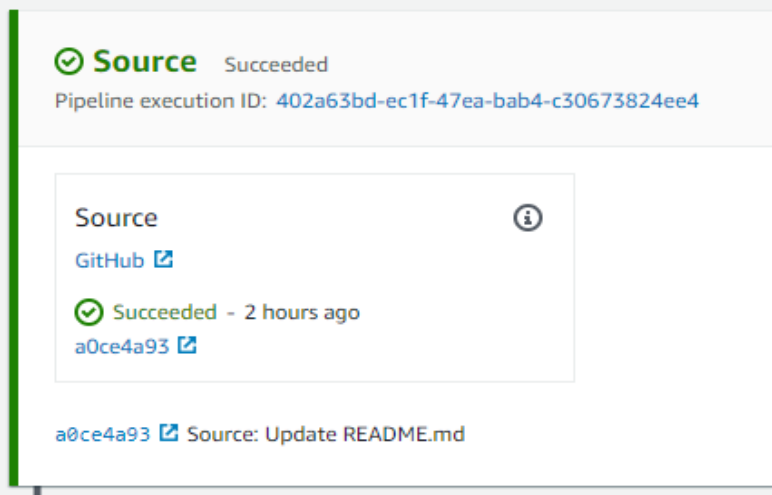
Application name
Choose an application that you have already created in the AWS CodeDeploy console. Or create an application in the console and then return to this task.

Q myapp X

Deployment group
Choose a deployment group that you have already created in the AWS CodeDeploy console. Or create a deployment group in the AWS CodeDeploy console and then return to this task.

Q mydep X

- Checked for the pipeline execution and confirmed it is success



- In the instance copy the ip address or dns name of instance and open in the web browser.

