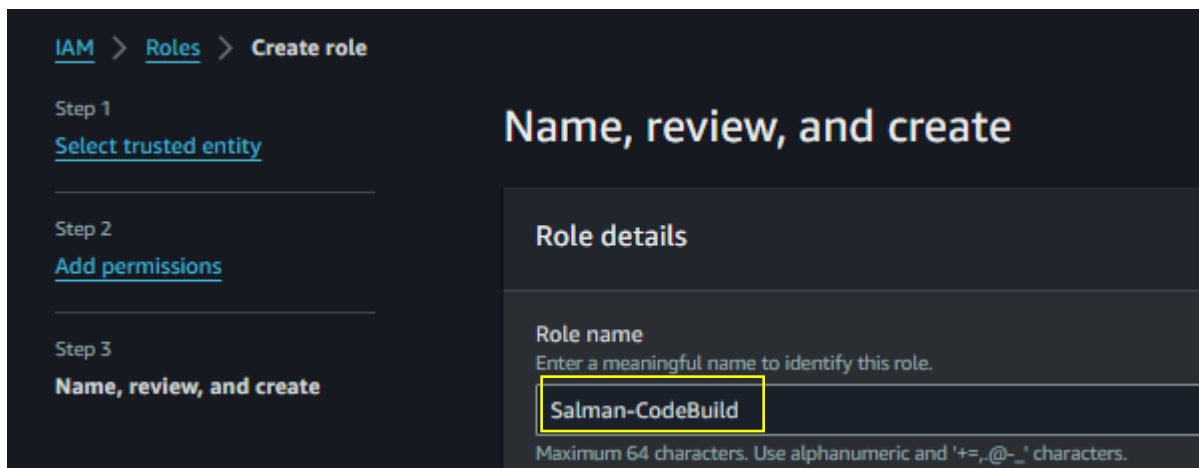
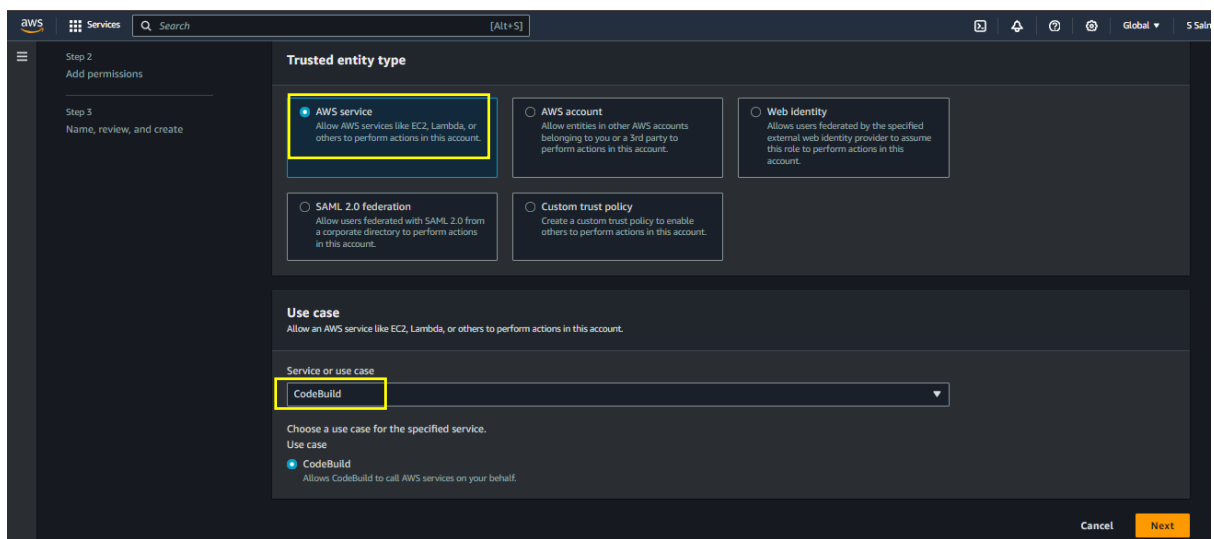
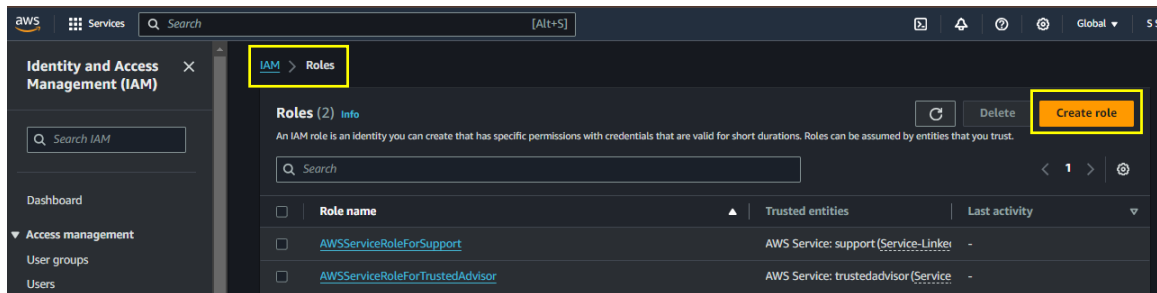


Code Build Demo:

Go to IAM



Permissions policy summary			
Policy name ?	Type	Attached as	
AmazonCloudWatchEvidentlyFullAccess	AWS managed	Permissions policy	
AmazonEC2ContainerRegistryFullAccess	AWS managed	Permissions policy	
AmazonEC2FullAccess	AWS managed	Permissions policy	
AmazonS3FullAccess	AWS managed	Permissions policy	
AWSCodeBuildAdminAccess	AWS managed	Permissions policy	

Create a Bucket for After Build the Job it will be store all the build artifacts in bucket, we can go through with s3, RDS..... so I chosen s3 bucket

[Amazon S3](#) > [Buckets](#) > **Create bucket**

Create bucket [Info](#)

Buckets are containers for data stored in S3.

General configuration

AWS Region

US East (Ohio) us-east-2

Bucket name [Info](#)

salmanaug28

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Bucket Versioning

☐ Disable

☒ Enable

▼ Storage Lens Dashboards	Name	AWS Region	IAM Access Analyzer	Creation date
	<input type="radio"/> salmanaug28	US East (Ohio) us-east-2	View analyzer for us-east-2	August 28, 2024, 19:54:00 (UTC+05:30)

Now Create a CodeBuild Setup and after Select Source Provider and Click Manage

Developer Tools > CodeBuild > Build projects > Create build project

Create build project

Project configuration

Project name

awsdevops

A project name must be 2 to 255 characters. It can include the letters A-Z and a-z, the numbers 0-9, and the special characters - and _.

► **Additional configuration**
Description, Build badge, Concurrent build limit, tags

Source Add source

Source 1 - Primary

Source provider

GitHub

Give the Connection name and login into your git hub and connect it.

Developer Tools > ... > Create connection

Beginning July 1, 2024, the console will create connections with codeconnections in the resource ARN. Resources with both service prefixes will continue to display in the console. [Learn more](#)

Connect to GitHub

GitHub connection settings [Info](#)

Connection name

aws-pipeline

App installation - optional
Install GitHub App to connect as a bot. Alternatively, leave it blank to connect as a GitHub user, which can be used in AWS CodeBuild projects.

Q 54253574 or Install a new app

► **Tags - optional**

Public **JenkinsMavenCode**
Forked from suhailasad/JenkinsMavenCode
Java

Public **aws-pipeline**
Forked from mehar221/aws-pipeline
HTML

Public **awsdevops**

CloudShell Feedback Privacy Terms Cookie preferences

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Contribution settings

Successfully Connected, In the Repository, I chosen aws-pipeline repo and remove .git

Source 1 - Primary

Source provider
GitHub

Credential

- ☒ **Default source credential**
Use your account's default source credential to apply to all projects
- ☐ **Custom source credential**
Use a custom source credential to override your account's default settings

✓ Successfully connected by using an AWS managed GitHub App - [open resource](#)

[Manage default source credential](#)

Repository

- ☒ **Repository in my GitHub account**
- ☐ **Public repository**
- ☐ **GitHub scoped webhook**

Repository
https://github.com/SalmanFarsi123/aws-pipeline

Select Operation system as ubuntu

Provisioning model [Info](#)

- ☒ **On-demand**
Automatically provision build infrastructure in response to new builds.
- ☐ **Reserved capacity**
Use a dedicated fleet of instances for builds. A fleet's compute and environment type will be used for the project.

Environment image

- ☒ **Managed image**
Use an image managed by AWS CodeBuild
- ☐ **Custom image**
Specify a Docker image

Compute

- ☒ **EC2**
Optimized for flexibility during action runs
- ☐ **Lambda**
Optimized for speed and minimizes the start up time of workflow actions

Operating system
Ubuntu

Runtime(s)
Standard

Image
aws/codebuild/standard:7.0

Previously We Created IAM Role for CodeBuild Select it

The screenshot shows the 'Service role' configuration page in the AWS CodeBuild console. It has two main sections: 'Service role' and 'Buildspec'.

Service role

- Service role:** Two radio buttons are present. 'New service role' (Create a service role in your account) is unselected. 'Existing service role' (Choose an existing service role from your account) is selected.
- Role ARN:** A text input field contains 'arn:aws:iam::746669236695:role/Salman-CodeBuild'.
- Permissions:** A checkbox labeled 'Allow AWS CodeBuild to modify this service role so it can be used with this build project' is checked.
- Additional configuration:** A section with a right-pointing triangle icon and the text 'Timeout, privileged, certificate, VPC, compute type, environment variables, file systems'.

Buildspec

Build specifications

- Build specifications:** Two radio buttons are present. 'Insert build commands' (Store build commands as build project configuration) is unselected. 'Use a buildspec file' (Store build commands in a YAML-formatted buildspec file) is selected.
- Buildspec name - optional:** A text input field contains 'buildspec.yml'. Below it, a note states: 'By default, CodeBuild looks for a file named buildspec.yml in the source code root directory. If your buildspec file uses a different name or location, enter its path from the source root here (for example, buildspec-two.yml or configuration/buildspec.yml).'

And Artifacts select s3 and select created Bucket

The screenshot shows the 'Artifacts' configuration page in the AWS CodeBuild console. It features a sidebar with a hamburger menu icon and a top bar with the title 'Artifacts' and an 'Add artifact' button.

Artifact 1 - Primary

- Type:** A dropdown menu is set to 'Amazon S3'. Below it, a note says: 'You might choose no artifacts if you are running tests or pushing a Docker image to Amazon ECR.'
- Bucket name:** A text input field contains 'salmanaug28'.
- Name:** A text input field is empty. Below it, a note states: 'The name of the folder or compressed file in the bucket that will contain your output artifacts. Use Artifacts packaging under Additional configuration to choose whether to use a folder or compressed file. If the name is not provided, defaults to project name.'
- Enable semantic versioning:** An unchecked checkbox with the label 'Enable semantic versioning' and a sub-note: 'Use the artifact name specified in the buildspec file'.
- Path - optional:** A text input field is empty. Below it, a note says: 'The path to the build output ZIP file or folder.' and an example: 'Example: MyPath/MyArtifact.zip.'
- Namespace type - optional:** A dropdown menu is set to 'None'. Below it, a note states: 'Choose Build ID to insert the build ID into the path to the build output ZIP file or folder. e.g. MyPath/MvBuildID/MvArtifact.zip. Otherwise'.

In Logs `/aws/codebuild/aws-pipeline`, yellow mark name keep it as default and blue mark is your repo name which we are building now, and hit the create button

Artifacts packaging

☒ **None**
The artifact files will be uploaded to the bucket.

☐ **Zip**
AWS CodeBuild will upload artifacts into a compressed file that is put into the specified bucket.

☐ **Disable artifact encryption**
Disable encryption if using the artifact to publish a static website or sharing content with others

► **Additional configuration**
Cache, encryption key

Logs

CloudWatch

☒ **CloudWatch logs - optional**
Checking this option will upload build output logs to CloudWatch.

Group name - optional

The group name of the logs in CloudWatch Logs. The log group name will be `/aws/codebuild/<project-name>` by default.

Stream name prefix - optional

The prefix of the stream name of the CloudWatch Logs.

Now Start Build

Project created
You have successfully created the following project: `awsdevops`

Create a notification rule for this project

Developer Tools > CodeBuild > Build projects > **awsdevops**

awsdevops

Actions ▼ Create trigger Edit Clone Debug build Start build with overrides Start build

Configuration

Source provider	Primary repository	Artifacts upload location	Service role
GitHub	SalimanFarsi123/aws-pipeline	salmanaug28	arn:aws:iam::746669236695:role/Salman-CodeBuild
Public builds	Disabled		

The Build was Succeeded

The screenshot shows the AWS CodeBuild console for a build named `awsdevops:a5859524-6498-483b-8ade-0c18289856a9`. The build status is **Succeeded**. The console displays the build status, build logs, and a table of build phases.

Build status

Status	Initiator	Build ARN	Resolved source version
Succeeded	root	arn:aws:codebuild:us-east-2:746669236695:build/awsdevops:a5859524-6498-483b-8ade-0c18289856a9	3219b0c36cbb4aa98a36e48df0daf5684e3f04

Build logs

Name	Status	Context	Duration	Start time	End time
SUBMITTED	Succeeded	-	<1 sec	Aug 28, 2024 8:23 PM (UTC+5:30)	Aug 28, 2024 8:23 PM (UTC+5:30)
QUEUED	Succeeded	-	<1 sec	Aug 28, 2024 8:23 PM (UTC+5:30)	Aug 28, 2024 8:23 PM (UTC+5:30)

Phase Details

The screenshot shows the AWS CodeBuild console for a build named `awsdevops:a5859524-6498-483b-8ade-0c18289856a9`. The build status is **Succeeded**. The console displays the build status, build logs, and a table of build phases.

Build logs

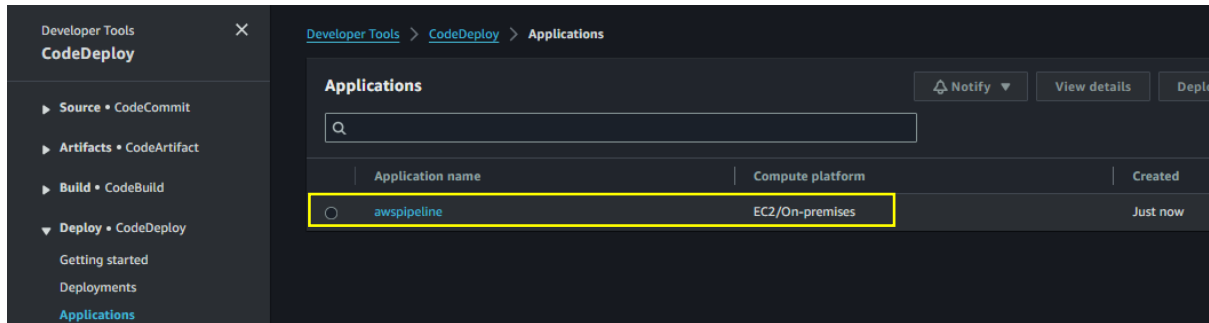
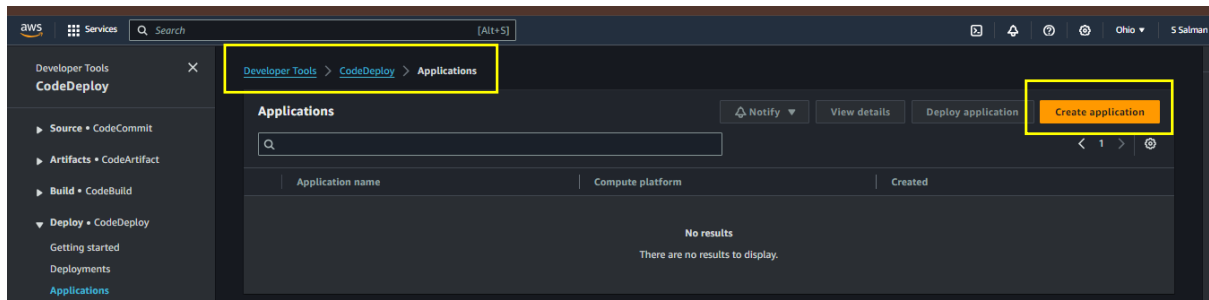
Name	Status	Context	Duration	Start time	End time
SUBMITTED	Succeeded	-	<1 sec	Aug 28, 2024 8:23 PM (UTC+5:30)	Aug 28, 2024 8:23 PM (UTC+5:30)
QUEUED	Succeeded	-	<1 sec	Aug 28, 2024 8:23 PM (UTC+5:30)	Aug 28, 2024 8:23 PM (UTC+5:30)
PROVISIONING	Succeeded	-	4 secs	Aug 28, 2024 8:23 PM (UTC+5:30)	Aug 28, 2024 8:23 PM (UTC+5:30)
DOWNLOAD_SOURCE	Succeeded	-	42 secs	Aug 28, 2024 8:23 PM (UTC+5:30)	Aug 28, 2024 8:24 PM (UTC+5:30)
INSTALL	Succeeded	-	31 secs	Aug 28, 2024 8:24 PM (UTC+5:30)	Aug 28, 2024 8:24 PM (UTC+5:30)
PRE_BUILD	Succeeded	-	<1 sec	Aug 28, 2024 8:24 PM (UTC+5:30)	Aug 28, 2024 8:24 PM (UTC+5:30)
BUILD	Succeeded	-	<1 sec	Aug 28, 2024 8:24 PM (UTC+5:30)	Aug 28, 2024 8:24 PM (UTC+5:30)
POST_BUILD	Succeeded	-	<1 sec	Aug 28, 2024 8:24 PM (UTC+5:30)	Aug 28, 2024 8:24 PM (UTC+5:30)
UPLOAD_ARTIFACTS	Succeeded	-	<1 sec	Aug 28, 2024 8:24 PM (UTC+5:30)	Aug 28, 2024 8:24 PM (UTC+5:30)
FINALIZING	Succeeded	-	<1 sec	Aug 28, 2024 8:24 PM (UTC+5:30)	Aug 28, 2024 8:24 PM (UTC+5:30)
COMPLETED	Succeeded	-	-	Aug 28, 2024 8:24 PM (UTC+5:30)	-

Artifacts get stored in s3 bucket, this is **codebuild demo**.

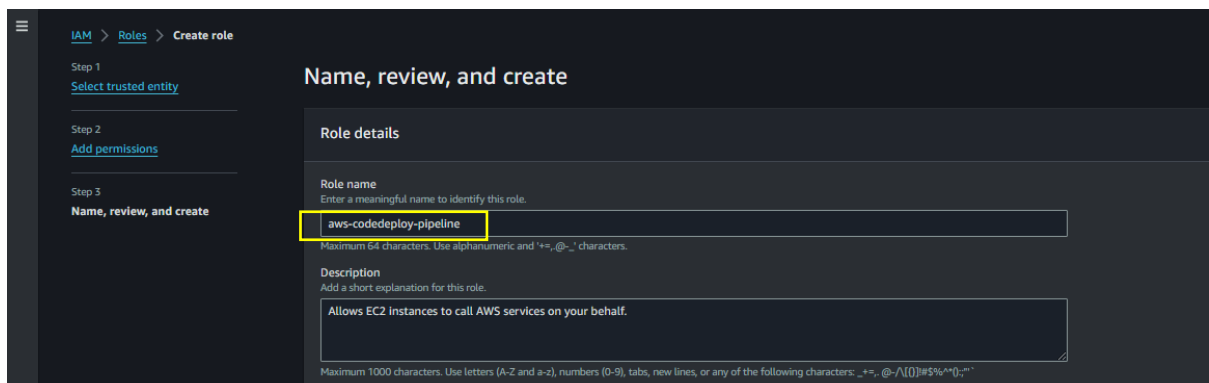
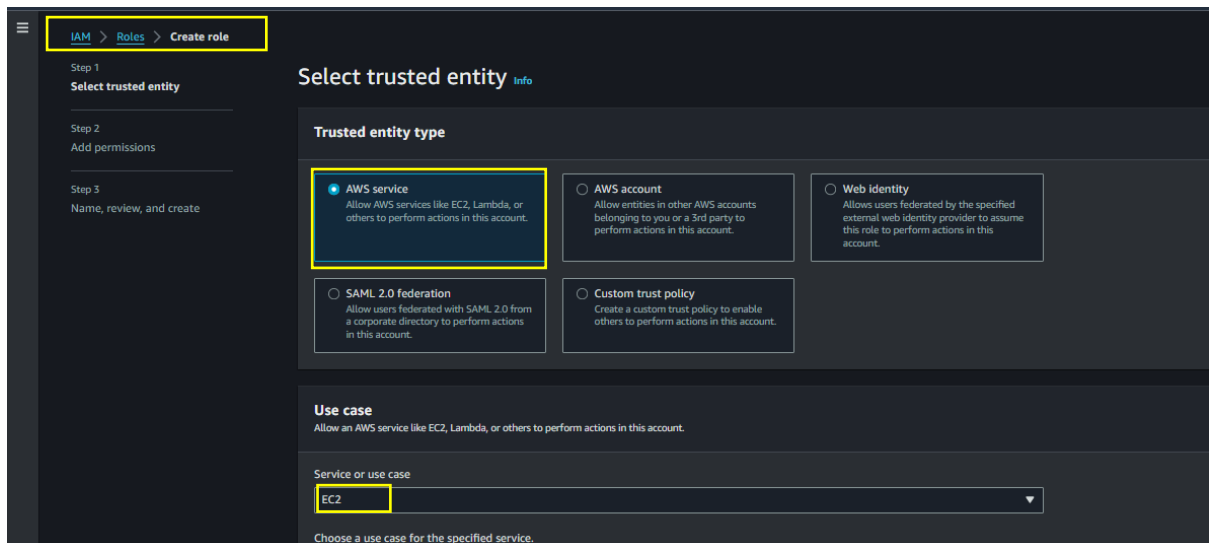
The screenshot shows the AWS S3 console for the bucket `awsdevops/`. The bucket contains 5 objects. The objects are listed in the following table:

Name	Type	Last modified	Size	Storage class
1.png	png	August 28, 2024, 20:24:39 (UTC+05:30)	0 B	Standard
appspect.yml	yml	August 28, 2024, 20:24:39 (UTC+05:30)	315.0 B	Standard
aws.gif	gif	August 28, 2024, 20:24:39 (UTC+05:30)	0 B	Standard
back.jpg	jpg	August 28, 2024, 20:24:39 (UTC+05:30)	0 B	Standard
index.html	html	August 28, 2024, 20:24:39 (UTC+05:30)	2.4 KB	Standard
scripts/	Folder	-	-	-

CODE Deploy Demo:



Now Creating IAM Role for Code Deploy Demo, Providing Permissions for EC2 Instances



Here We are allowing CodeDeploy and CodePipeline Full Access to EC2 Instances

Step 2: Add permissions Edit

Permissions policy summary

Policy name	Type	Attached as
AWSCodeDeployFullAccess	AWS managed	Permissions policy
AWSCodePipeline_FullAccess	AWS managed	Permissions policy

Step 3: Add tags

Add tags - optional [Info](#)
Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

[Add new tag](#)
You can add up to 50 more tags.

Cancel Previous Create role

Create Another Role for CodeDeploy

Role aws-codedeploy-pipeline created.

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Select trusted entity [Info](#)

Trusted entity type

- ☒ **AWS service**
Allow AWS services like EC2, Lambda, or others to perform actions in this account.
- ☐ **AWS account**
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
- ☐ **Web identity**
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
- ☐ **SAML 2.0 federation**
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
- ☐ **Custom trust policy**
Create a custom trust policy to enable others to perform actions in this account.

Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Service or use case
[CodeDeploy](#)

Here We are not able to add permission Just click Next

[IAM](#) > [Roles](#) > [Create role](#)

Step 1
[Select trusted entity](#)

Step 2
Add permissions

Step 3
[Name, review, and create](#)

Add permissions [Info](#)

Permissions policies (1) [Info](#)
The type of role that you selected requires the following policy.

Policy name	Type
AWSCodeDeployRole	AWS managed

[Set permissions boundary - optional](#)

Cancel Previous Next

Give Role Name and Create

Name, review, and create

Role details

Role name
Enter a meaningful name to identify this role.
codedeployforEC2Access
Maximum 64 characters: the alphanumeric characters, '+', '@', and '-' characters.

Description
Add a short explanation for this role.
Allows CodeDeploy to call AWS services such as Auto Scaling on your behalf.
Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: '_', '+', '@', '/', '()', '#', '\$', '%', '^', '~', '!'.

Step 1: Select trusted entities

Edit

And Now Open That **Codedeployroleforec2access**

Identity and Access Management (IAM)

Role codedeployforEC2Access created.

Roles (5)

Role name	Trusted entities	Last activity
aws-codedeploy-pipeline	AWS Service: ec2	-
AWSServiceRoleForSupport	AWS Service: support(Service-Link)	-
AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor(Service-Link)	-
codedeployforEC2Access	AWS Service: codedeploy	-
Salman-CodeBuild	AWS Service: codebuild	45 minutes ago

codedeployforEC2Access

Allows CodeDeploy to call AWS services such as Auto Scaling on your behalf.

Summary

Creation date: August 28, 2024, 21:09 (UTC+05:30)
Last activity: -
ARN: arn:aws:iam::74669236695:role/codedeployforEC2Access
Maximum session duration: 1 hour

Permissions policies (1)

You can attach up to 10 managed policies.

Add permissions

Policy name	Type	Attached entities
AWSCodeDeployRole	AWS managed	1

Attach policy to codedeployforEC2Access

Current permissions policies (1)

Other permissions policies (1/949)

Filter by Type: All types (2 matches)

Policy name	Type	Description
AmazonEC2FullAccess	AWS managed	Provides full access to Amazon EC2 via th...
EC2FastLaunchFullAccess	AWS managed	This policy grants full access to EC2 Fast L...

Add permissions

Roles	Filter by Type		
Policies	Search		
Identity providers	All types		
Account settings			
▼ Access reports			
Access Analyzer			
External access			
	<input type="checkbox"/>	Policy name	Type
	<input type="checkbox"/>	AmazonEC2FullAccess	AWS managed
	<input type="checkbox"/>	AWSCodeDeployRole	AWS managed

Now Launch **t2.medium Instances** for Code Deploy, Our Application will be going to deploy/run on this instances select ubuntu 22.04, do not select 20.04, I here launched with t2 micro but upcoming screenshot I will switch into t2.medium

[EC2](#) > [Instances](#) > Launch an instance

Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Name: code-deploy

Add additional tags

Application and OS Images (Amazon Machine Image)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Quick Start

Amazon macOS Ubuntu Windows Red Hat SUSE L

Summary

Number of instances: 1

Software Image (AMI): Canonical, Ubuntu, 22.04 LTS, ...read more

Virtual server type (instance type): t2.micro

Firewall (security group): default

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs

Cancel Launch instance

Review commands

We know that how to launch instances

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type

ami-003932de22c285676 (64-bit (x86)) / ami-03772d93fb1879bbe (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Instance type

Instance type: t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0116 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand RHEL base pricing: 0.026 USD per Hour

Free tier eligible

All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

Summary

Number of instances: 1

Software Image (AMI): Canonical, Ubuntu, 22.04 LTS, ...read more

Virtual server type (instance type): t2.micro

Firewall (security group): default

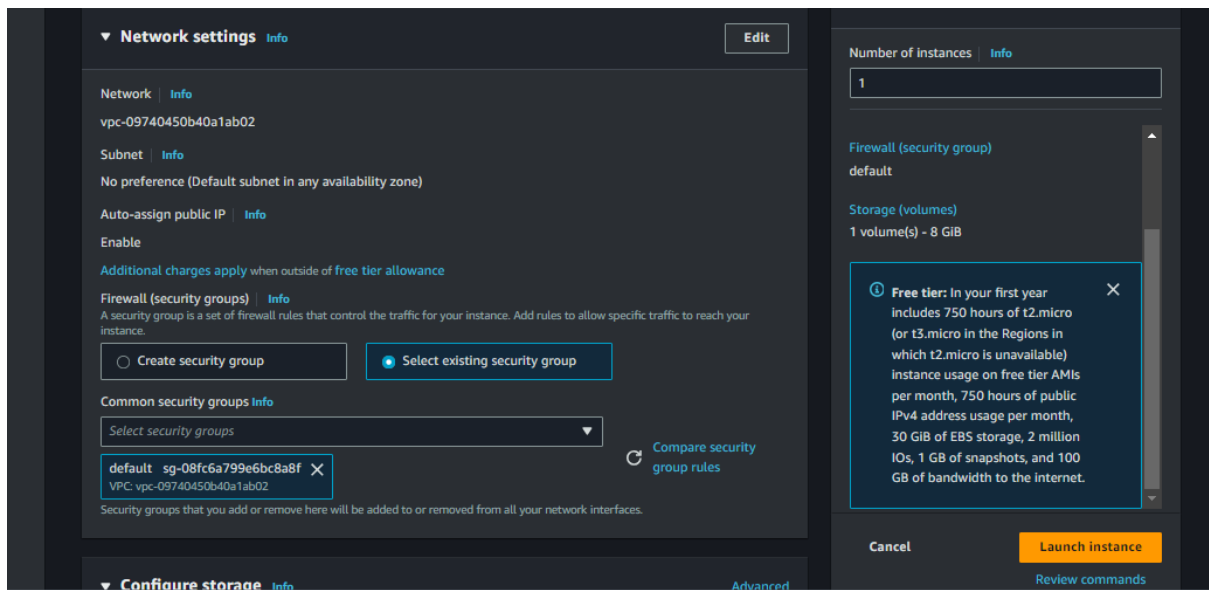
Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs

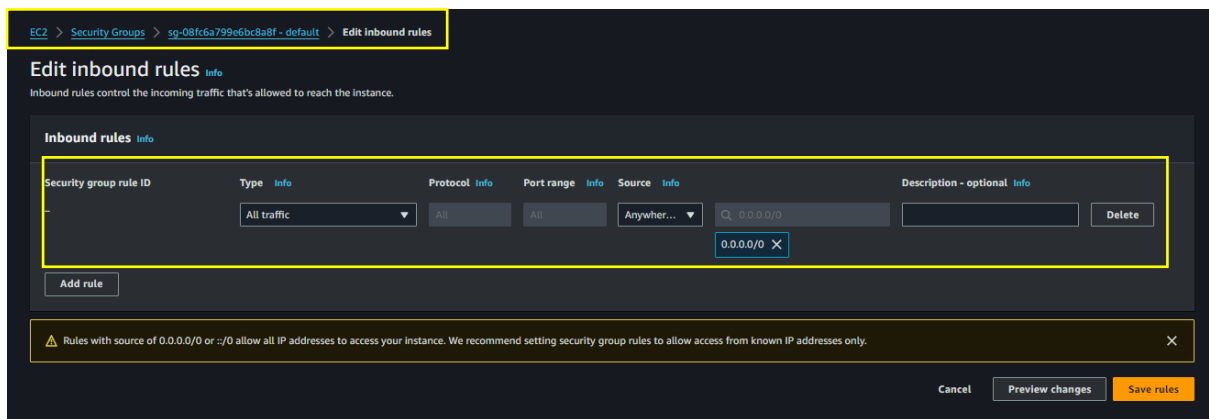
Cancel Launch instance

Review commands

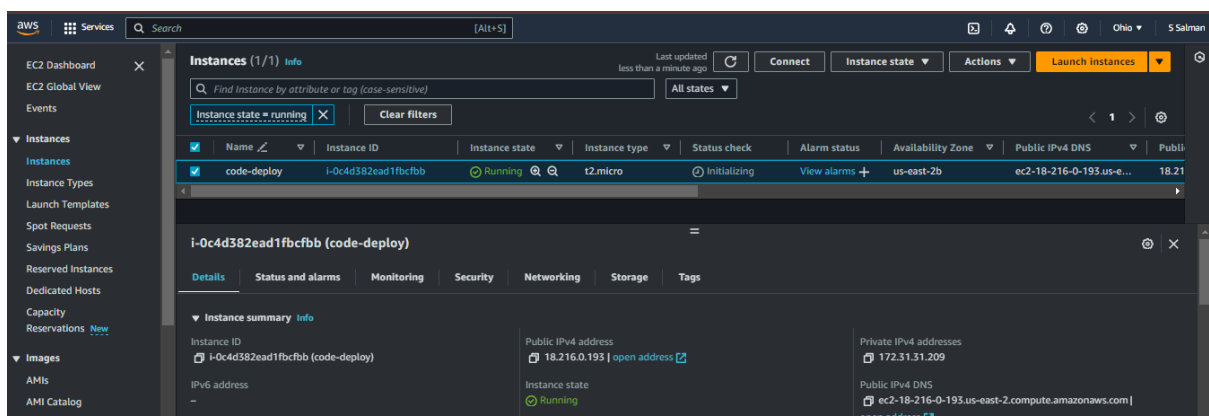
Everything Default I am using here and Launch it



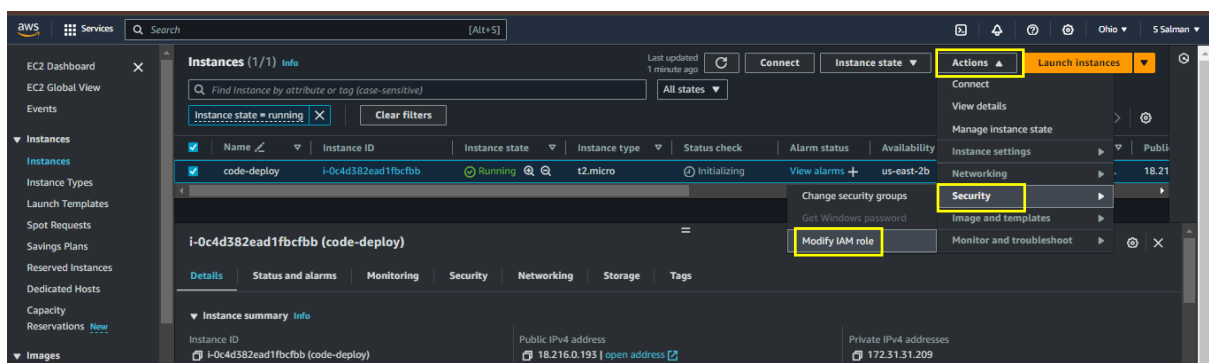
Go To Security Groups, delete and add the rule, Allow all traffic and anywhere and save rules



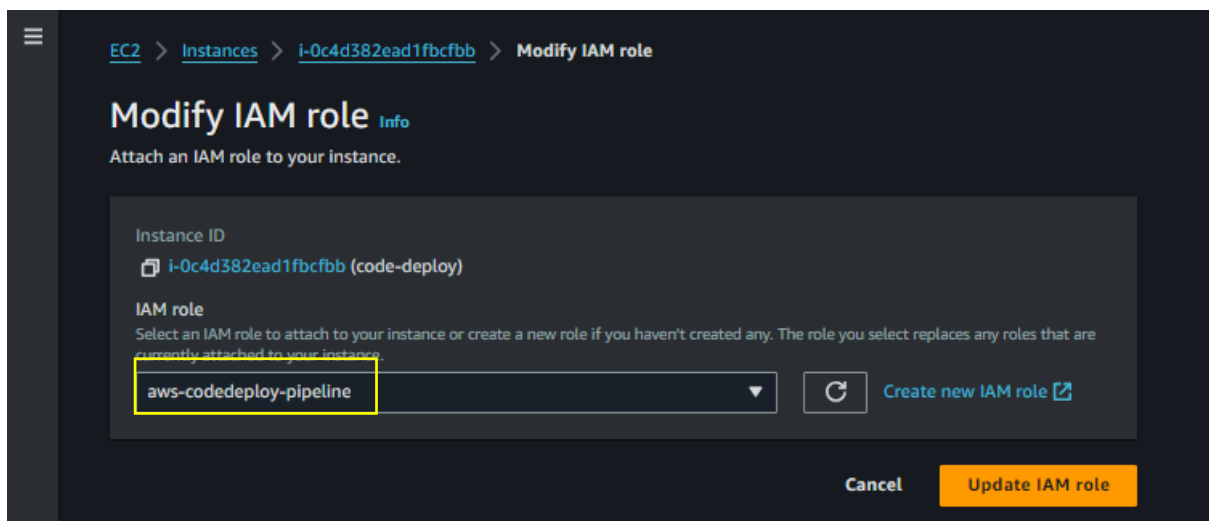
This our instances running successfully



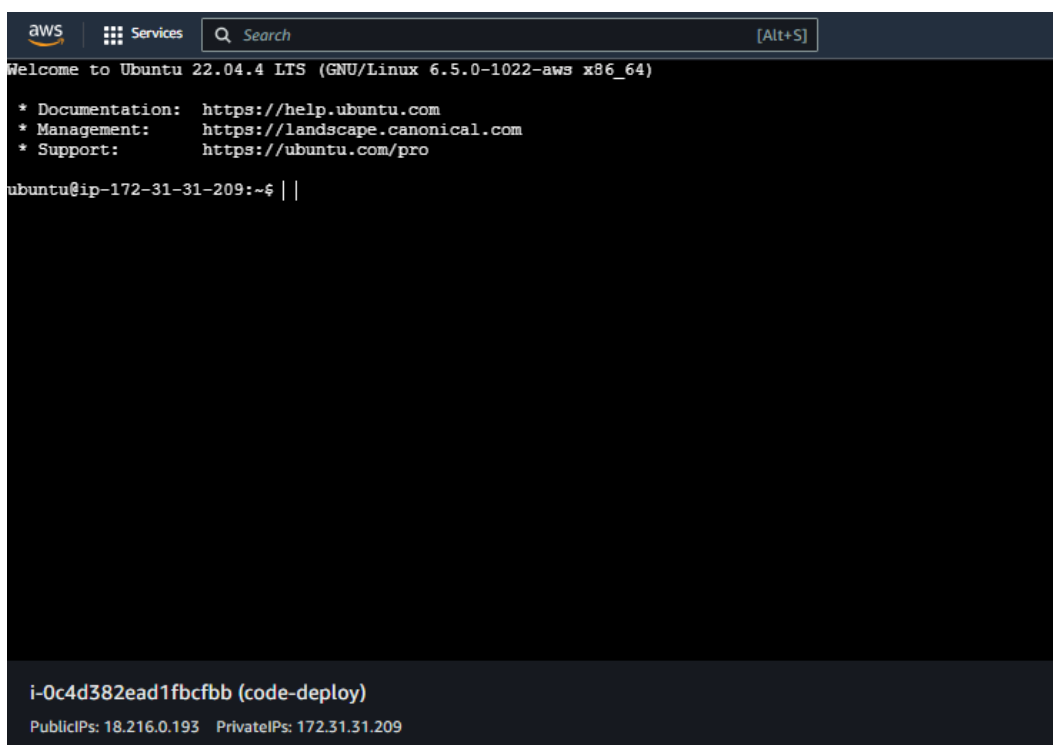
Now here I am Attaching IAM role for Ec2 instances



Update IAM Role



Connect Instances



Go Through below the link to follow the instructions to install codedeploy agent into instances

<https://docs.aws.amazon.com/codedeploy/latest/userguide/codedeploy-agent-operations-install-ubuntu.html#:~:text=To%20install%20the%20CodeDeploy%20agent%20on%20Ubuntu%20Server,sudo%20apt%20install%20ruby-full%20sudo%20apt%20install%20wget>

Copy 3 commands

Server

- Install the CodeDeploy agent for Windows Server
- Update the CodeDeploy agent
- Uninstall the CodeDeploy agent
- Send CodeDeploy agent logs to CloudWatch

1. Sign in to the instance.
2. Enter the following commands, one after the other:

`sudo apt update`

`sudo apt install ruby-full`

`sudo apt install wget`

Run in instances

```
Get:42 http://security.ubuntu.com/ubuntu jammy-security/universe amd64
Fetched 33.4 MB in 5s (7273 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
44 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-31-209:~$ |

i-0c4d382ead1fbcfbb (code-deploy)
PublicIPs: 18.216.0.193 PrivateIPs: 172.31.31.209
```

```
aws Services Search
ubuntu@ip-172-31-31-209:~$ sudo apt install ruby-full |
```

```
aws Services Search
ubuntu@ip-172-31-31-209:~$ sudo apt install wget |
```

bucket-name is the name of the Amazon S3 bucket that contains the CodeDeploy Resource Kit files for your region, and *region-identifier* is the identifier for your region.

This Command works for to access our bucket codedeploy files so my region is us-east-2 so accordingly u have to change it

Copy the Command paste it

```
aws Services Search [Alt+S]
ubuntu@ip-172-31-31-209:~$ wget https://aws-codedeploy-us-east-2.s3.us-east-2.amazonaws.com/latest/install |
```

US East (N. Virginia)	us-east-1
US East (Ohio)	us-east-2
US West (N. California)	us-west-1

After Successful run Provide Execute Permission to install

```
aws
Services
Search
[Alt+S]

ubuntu@ip-172-31-31-209:~$ wget https://aws-codedeploy-us-east-2.s3.us-east-2.amazonaws.com/latest/install
--2024-08-28 15:57:19-- https://aws-codedeploy-us-east-2.s3.us-east-2.amazonaws.com/latest/install
Resolving aws-codedeploy-us-east-2.s3.us-east-2.amazonaws.com (aws-codedeploy-us-east-2.s3.us-east-2.amazonaws.com)... 52.219.179.218, 16.12.66.58, 3.5.128.144, ...
Connecting to aws-codedeploy-us-east-2.s3.us-east-2.amazonaws.com (aws-codedeploy-us-east-2.s3.us-east-2.amazonaws.com)|52.219.179.218|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 19045 (19K)
Saving to: 'install'

install
100%[=====] 18.60K --.-KB/s in 0s

2024-08-28 15:57:19 (103 MB/s) - 'install' saved [19045/19045]

ubuntu@ip-172-31-31-209:~$ chmod +x ./install
ubuntu@ip-172-31-31-209:~$ ./install
install
ubuntu@ip-172-31-31-209:~$
```

Sudo ./install auto, it will install the agent

```
aws
Services
Search
[Alt+S]

ubuntu@ip-172-31-31-209:~$ sudo ./install auto
1, [2024-08-28T15:58:52.119482 #2400] INFO -- : Starting Ruby version check.
1, [2024-08-28T15:58:52.119715 #2400] INFO -- : Starting update check.
1, [2024-08-28T15:58:52.119873 #2400] INFO -- : Attempting to automatically detect supported package manager type for system...
1, [2024-08-28T15:58:52.126860 #2400] WARN -- : apt-get found but no gdebi. Installing gdebi with 'apt-get install gdebi-core -y'...
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  gdebi-core
0 upgraded, 1 newly installed, 0 to remove and 44 not upgraded.
Need to get 133 kB of archives.
After this operation, 876 kB of additional disk space will be used.
Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 gdebi-core all 0.9.5.7+nmu6 [133 kB]
Fetched 133 kB in 0s (7922 kB/s)
Selecting previously unselected package gdebi-core.
(Reading database ... 81740 files and directories currently installed.)
Preparing to unpack .../gdebi-core_0.9.5.7+nmu6_all.deb ...
Unpacking gdebi-core (0.9.5.7+nmu6) ...
Setting up gdebi-core (0.9.5.7+nmu6) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

i-0c4d382ead1fbcfbb (code-deploy)
PublicIPs: 18.216.0.193 PrivateIPs: 172.31.31.209
```

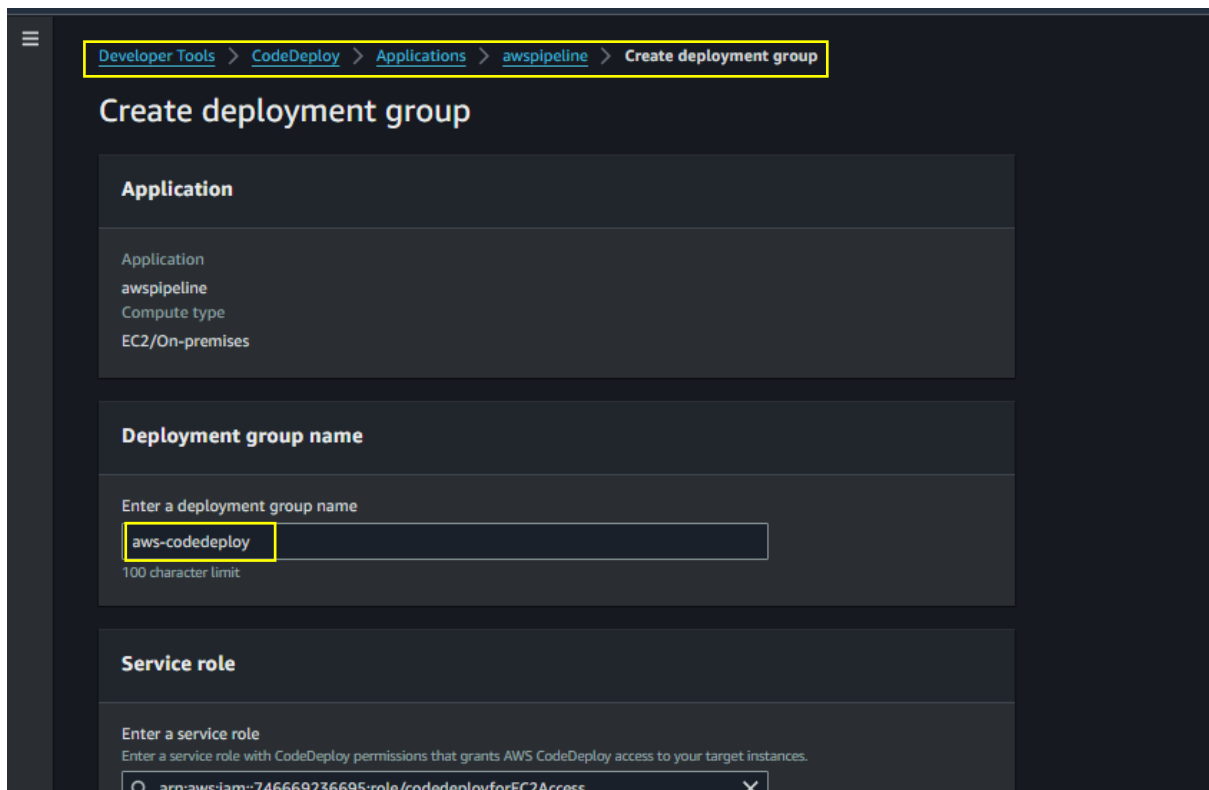
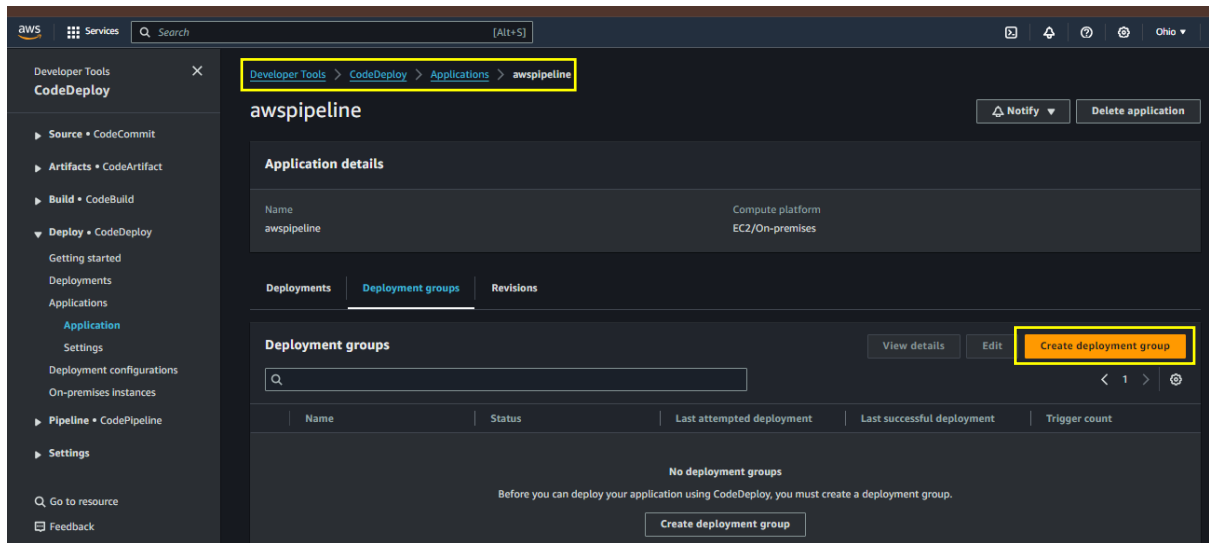
Status of codedeploy-agent, its active

```
aws
Services
Search
[Alt+S]

ubuntu@ip-172-31-31-209:~$ systemctl status codedeploy-agent
● codedeploy-agent.service - LSB: AWS CodeDeploy Host Agent
   Loaded: loaded (/etc/init.d/codedeploy-agent; generated)
   Active: active (running) since Wed 2024-08-28 15:58:59 UTC; 1min 11s ago
     Docs: man:systemd-sysv-generator(8)
    Process: 2672 ExecStart=/etc/init.d/codedeploy-agent start (code=exited, status=0/SUCCESS)
      Tasks: 2 (limit: 1120)
     Memory: 57.1M
        CPU: 734ms
    CGroup: /system.slice/codedeploy-agent.service
            └─2678 "codedeploy-agent: master 2678"
              └─2680 "codedeploy-agent: InstanceAgent::Plugins::CodeDeployPlugin::CommandPoller of master 2678"

Aug 28 15:58:59 ip-172-31-31-209 systemd[1]: Starting LSB: AWS CodeDeploy Host Agent...
Aug 28 15:58:59 ip-172-31-31-209 codedeploy-agent[2672]: Starting codedeploy-agent:
Aug 28 15:58:59 ip-172-31-31-209 systemd[1]: Started LSB: AWS CodeDeploy Host Agent.
ubuntu@ip-172-31-31-209:~$
```

Come Again to CodeDeploy, Create Deployment Group



Select Role Which we are Created Previously

This screenshot shows the 'Enter a service role' step in the AWS CodeDeploy console. At the top, there is a search bar with the role ARN 'arn:aws:iam::746669236695:role/codedeployforEC2Access' entered. Below this, the 'Deployment type' section offers two options: 'In-place' (selected) and 'Blue/green'. The 'In-place' option is highlighted with a yellow box. The 'Environment configuration' section below shows 'Amazon EC2 instances' selected, also highlighted with a yellow box, with a note indicating '1 unique matched instance'. A footer note states: 'You can add up to three groups of tags for EC2 instances to this deployment group.'

Enter a service role
Enter a service role with CodeDeploy permissions that grants AWS CodeDeploy access to your target instances.

Q arn:aws:iam::746669236695:role/codedeployforEC2Access X

Deployment type

Choose how to deploy your application

☒ **In-place**
Updates the instances in the deployment group with the latest application revisions. During a deployment, each instance will be briefly taken offline for its update.

☐ **Blue/green**
Replaces the instances in the deployment group with new instances and deploys the latest application revision to them. After instances in the replacement environment are registered with a load balancer, instances from the original environment are deregistered and can be terminated.

Environment configuration

Select any combination of Amazon EC2 Auto Scaling groups, Amazon EC2 instances, and on-premises instances to add to this deployment

☐ Amazon EC2 Auto Scaling groups

☒ **Amazon EC2 instances**
1 unique matched instance. [Click here for details](#)

You can add up to three groups of tags for EC2 instances to this deployment group.

This screenshot shows the 'Tag group 1' configuration step in the AWS CodeDeploy console. It continues from the previous step, showing 'Amazon EC2 instances' selected. Below, it explains that up to three tag groups can be added. 'Tag group 1' is currently configured with a key 'Name' and a value 'code-deploy', both highlighted with yellow boxes. There are buttons for 'Add tag', 'Add tag group', and 'Remove tag'. At the bottom, it shows 'Matching instances' with '1 unique matched instance'.

Select any combination of Amazon EC2 Auto Scaling groups, Amazon EC2 instances, and on-premises instances to add to this deployment

☐ Amazon EC2 Auto Scaling groups

☒ **Amazon EC2 instances**
1 unique matched instance. [Click here for details](#)

You can add up to three groups of tags for EC2 instances to this deployment group.
One tag group: Any instance identified by the tag group will be deployed to.
Multiple tag groups: Only instances identified by all the tag groups will be deployed to.

Tag group 1

Key	Value - optional
Q Name X	Q code-deploy X

Remove tag

Add tag

+ Add tag group

☐ On-premises instances

Matching instances
1 unique matched instance. [Click here for details](#)

Agent configuration with AWS Systems Manager Info

Complete the required prerequisites before AWS Systems Manager can install the CodeDeploy Agent. Make sure the AWS Systems Manager Agent is installed on all instances and attach the required IAM policies to them. [Learn more](#)

Install AWS CodeDeploy Agent

☐ Never

☐ Only once

☒ Now and schedule updates

Basic scheduler

Cron expression

14

Days

Deployment settings

Deployment configuration

Choose from a list of default and custom deployment configurations. A deployment configuration is a set of rules that determines how fast an application is deployed and the success or failure conditions for a deployment.

CodeDeployDefault:AllAtOnce

or

Create deployment configuration

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

► Advanced - optional

Cancel

Create deployment group

Now Create Deployment

Developer Tools

CodeDeploy

► Source • CodeCommit

► Artifacts • CodeArtifact

► Build • CodeBuild

▼ Deployment • CodeDeploy

Getting started

Deployments

Applications

Application

Settings

Deployment configurations

On-premises instances

► Pipeline • CodePipeline

► Settings

Go to resource

Feedback

Success

Deployment group created

Developer Tools > CodeDeploy > Applications > awspipeline > aws-codedeploy

aws-codedeploy

Edit

Delete

Create deployment

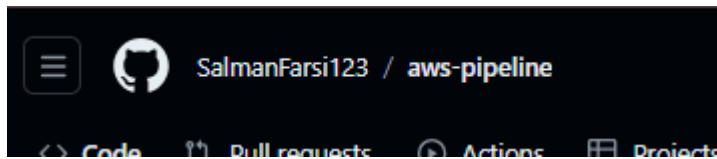
Deployment group details

Deployment group name	Application name	Compute platform
aws-codedeploy	awspipeline	EC2/On-premises
Deployment type	Service role ARN	Deployment configuration
In-place	arn:aws:iam::746669236695:role/codedeployforEC2Access	CodeDeployDefault:AllAtOnce
Rollback enabled	Agent update scheduler	
False	Learn to schedule update in AWS Systems Manager	

Environment configuration: Amazon EC2 instances

Key	Value
Name	code-deploy

This is My Github User Name and it will use in further



Select your Deployment Group, Click to Connect

A screenshot of the AWS CodeDeploy console. The 'Application' is 'awspipeline'. The 'Deployment group' is 'aws-codedeploy'. The 'Compute platform' is 'EC2/On-premises'. The 'Deployment type' is 'In-place'. The 'Managed hook execution role' is '-'. The 'Revision type' is 'My application is stored in GitHub' (selected). The 'GitHub token name' is 'SalmanFarsi123'. The 'Connect to GitHub' button is highlighted.

aws Services Search [Alt+S]

Application
awspipeline

Deployment group
aws-codedeploy

Compute platform
EC2/On-premises

Deployment type
In-place

Managed hook execution role
The IAM role used by the CodeDeploy Managed Hook function to perform actions. [Edit Managed Hook execution role.](#)

Revision type

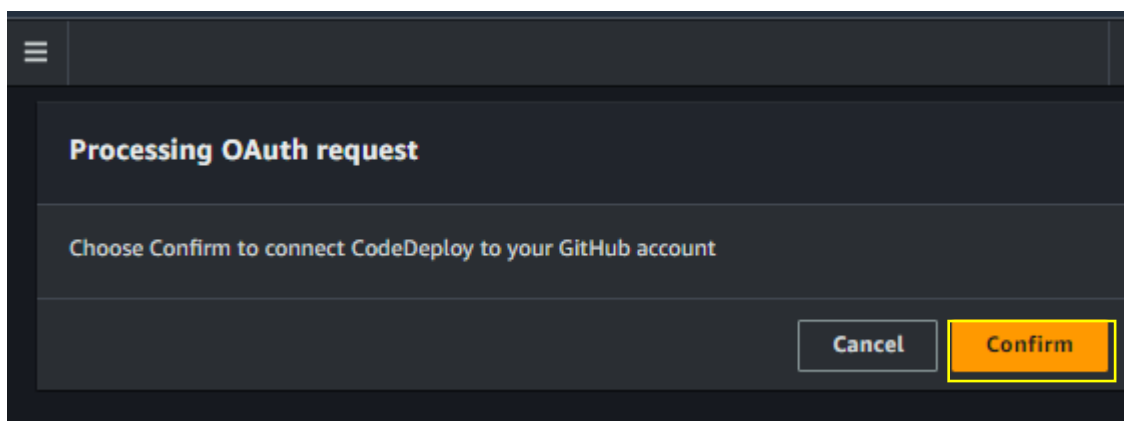
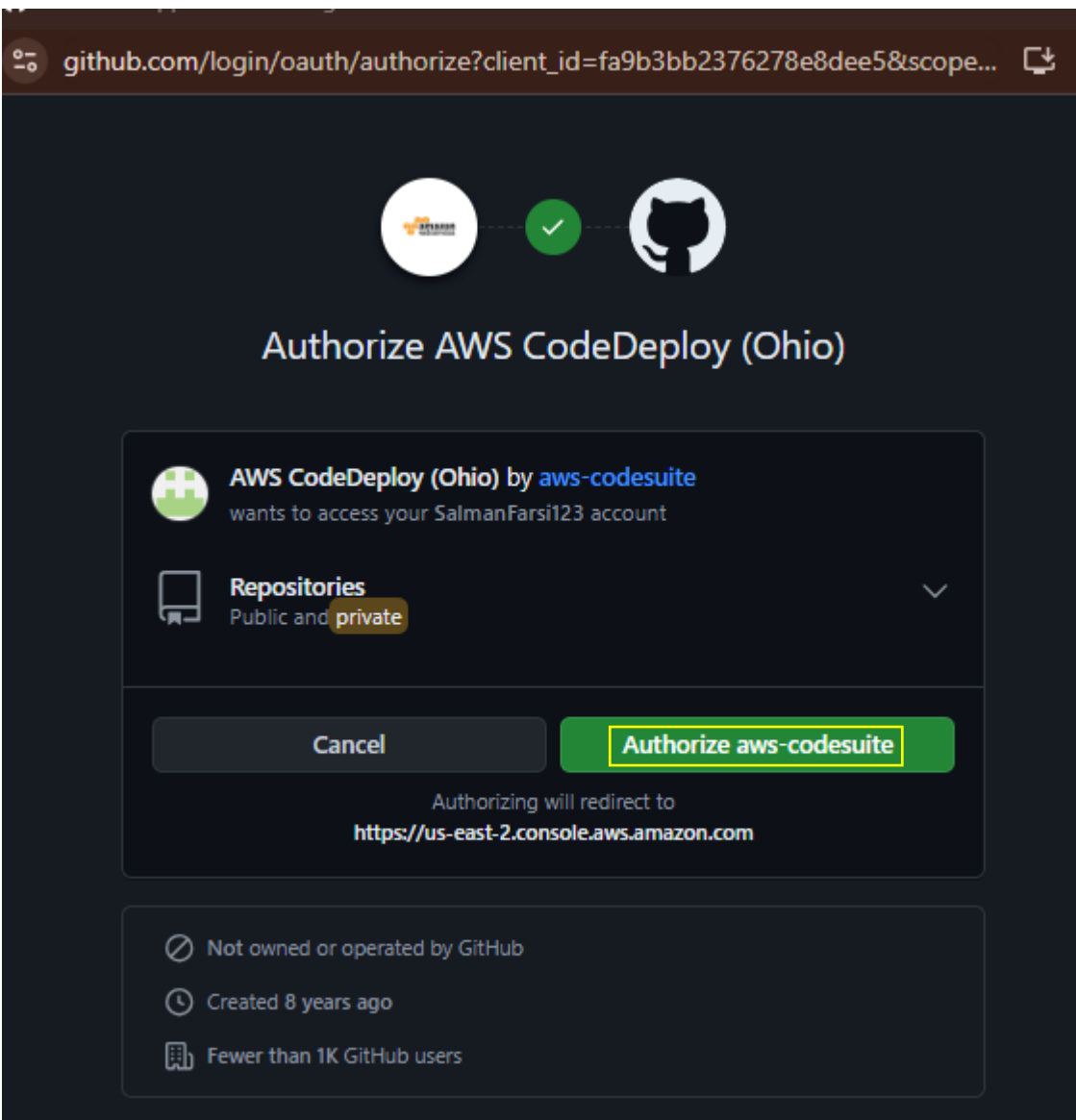
☐ My application is stored in Amazon S3

☒ My application is stored in GitHub

GitHub token name
Select the name of the token associated to an account you have already connected, or grant AWS CodeDeploy permission to access a different account. To connect to a GitHub account for the first time, type an alias for the account, and then choose [Connect to GitHub](#)

SalmanFarsi123

Connect to GitHub



Revision type

☐ My application is stored in Amazon S3

☒ My application is stored in GitHub

GitHub token name

Select the name of the token associated to an account you have already connected, or grant AWS CodeDeploy permission to access a different account. To connect to a GitHub account for the first time, type an alias for the account, and then choose Connect to GitHub

Q SalmanFarsi123 X

Connected

Application awspipeline successfully bound to SalmanFarsi123 GitHub token X

Repository name

Commit ID

Come Here And Copy your Repo Name

SalmanFarsi123 / aws-pipeline

Type to search

Code Pull requests Actions Projects Wiki Security Insights Settings

aws-pipeline Public

forked from mehar221/aws-pipeline

master 1 Branch 0 Tags

Go to file t Add file <> Code

This branch is up to date with mehar221/aws-pipeline:master.

Sameer-8080 Update index.html

dist first push

scripts Update install_depe

Local Codespaces

Clone

HTTPS SSH GitHub CLI

https://github.com/SalmanFarsi123/aws-pipeline. Clone using the web URL.

U need to Remove .git, otherwise u will get an error and Now we have to Know latest commit id

Revision type

☐ My application is stored in Amazon S3

☒ My application is stored in GitHub

GitHub token name

Select the name of the token associated to an account you have already connected, or grant AWS CodeDeploy permission to access a different account. To connect to a GitHub account for the first time, type an alias for the account, and then choose Connect to GitHub

Q SalmanFarsi123 X

Connected

✔ Application awspipeline successfully bound to SalmanFarsi123 GitHub token X

Repository name

SalmanFarsi123/aws-pipeline.git

Commit ID

So, Here I am Creating a New Directory

```
aws Services Search [Alt+S]
ubuntu@ip-172-31-31-209:~$ mkdir salman-new
ubuntu@ip-172-31-31-209:~$ ls
install salman-new
ubuntu@ip-172-31-31-209:~$ cd salman-new
ubuntu@ip-172-31-31-209:~/salman-new$ clone https://github.com/SalmanFarsi123/aws-pipeline.git
Command 'clone' not found, did you mean:
  command 'rclone' from deb rclone (1.53.3-4ubuntu1.22.04.2)
Try: sudo apt install <deb name>
ubuntu@ip-172-31-31-209:~/salman-new$ git clone https://github.com/SalmanFarsi123/aws-pipeline.git
Cloning into 'aws-pipeline'...
remote: Enumerating objects: 120, done.
remote: Counting objects: 100% (61/61), done.
remote: Compressing objects: 100% (32/32), done.
remote: Total 120 (delta 54), reused 29 (delta 29), pack-reused 59 (from 1)
Receiving objects: 100% (120/120), 1.69 MiB | 9.74 MiB/s, done.
Resolving deltas: 100% (60/60), done.
ubuntu@ip-172-31-31-209:~/salman-new$ cd aws-pipeline
ubuntu@ip-172-31-31-209:~/salman-new/aws-pipeline$ ls
1.png README.md appspec.yml aws.git back.jpg buildspec.yml dist index.html sample-ec2-cf-template scripts
ubuntu@ip-172-31-31-209:~/salman-new/aws-pipeline$ |
```

i-0c4d382ead1fbcfbb (code-deploy)

PublicIPs: 18.216.0.193 PrivateIPs: 172.31.31.209

Run **git log** and Copy latest one, this is the latest changes of project and **paste it on creating on deployment**, I didn't attached that screenshot

```
aws Services Search [Alt+S]
commit 3219b0c36cbb4aa98a36e488dffa0daf5684e3f04 (HEAD -> master, origin/master, origin/HEAD)
Author: Sameer <109897419+Sameer-8080@users.noreply.github.com>
Date: Fri Aug 2 08:09:43 2024 +0530

    Update index.html

commit 8787d30512c2bbc19295118bf581e7dd74b8714e
Author: Sameer <109897419+Sameer-8080@users.noreply.github.com>
Date: Sun Jul 21 12:44:14 2024 +0530

    Update sample-ec2-cf-template

commit b0e53d5b947e283ed897aba634959060f41fff39
Author: Sameer <109897419+Sameer-8080@users.noreply.github.com>
Date: Sun Jul 21 12:17:29 2024 +0530

    Update index.html

commit fbbal04cf6d7551fcc93c5d26918c99a7e3f9b8f
Author: Sameer <109897419+Sameer-8080@users.noreply.github.com>
Date: Sat Jul 20 21:59:18 2024 +0530

    Update index.html

commit 54680821e2d9da68356a64046ed5d451bec4ef12
Author: Sameer <109897419+Sameer-8080@users.noreply.github.com>
Date: Fri Jul 12 08:20:40 2024 +0530

    Update sample-ec2-cf-template
:|

i-0c4d382ead1fbcfbb (code-deploy)
PublicIPs: 18.216.0.193 PrivateIPs: 172.31.31.209
```

I removed that created directory, u creates only to know latest commit id

```
aws Services Search
ubuntu@ip-172-31-31-209:~/salman-new/aws-pipeline$
ubuntu@ip-172-31-31-209:~/salman-new/aws-pipeline$
ubuntu@ip-172-31-31-209:~/salman-new/aws-pipeline$ cd ..
ubuntu@ip-172-31-31-209:~/salman-new$ cd ..
ubuntu@ip-172-31-31-209:~$ sudo rm -r salman-new
ubuntu@ip-172-31-31-209:~$ |
```

Additional deployment behavior settings

ApplicationStop lifecycle event failure - optional
Type a deployment group name

☐ Don't fail the deployment to an instance if this lifecycle event on the instance fails

Content options - optional
Choose what to do during a deployment when a file on a target instance has the same name as a file in the application revision

☐ **Fail the deployment**
An error is reported and the deployment status is changed to Failed.

☐ **Overwrite the content**
The file in the application revision is copied to the target location on the instance, replacing the previous file.

☐ **Retain the content**
The file in the application revision is not copied to the instance. The existing file is kept at the target location and treated as part of the new deployment.

► **Deployment group overrides**

► **Rollback configuration overrides**

Cancel

Create deployment

Got an error because of t2.medium and .git extension I have gave in repo

Developer Tools

CodeDeploy

► Source • CodeCommit

► Artifacts • CodeArtifact

► Build • CodeBuild

▼ Deploy • CodeDeploy

Getting started

Deployments

Deployment

Applications

Deployment configurations

On-premises instances

► Pipeline • CodePipeline

► Settings

Q Go to resource

Feedback

Success

Deployment created

Developer Tools > CodeDeploy > Deployments > d-MQCOIC056

d-MQCOIC056

Copy deployment

Retry deployment

ⓘ The overall deployment failed because too many individual instances failed deployment, too few healthy instances are available for deployment, or some instances in your deployment group are experiencing problems.

Deployment status

Installing application on your instances

0 of 1 instances updated

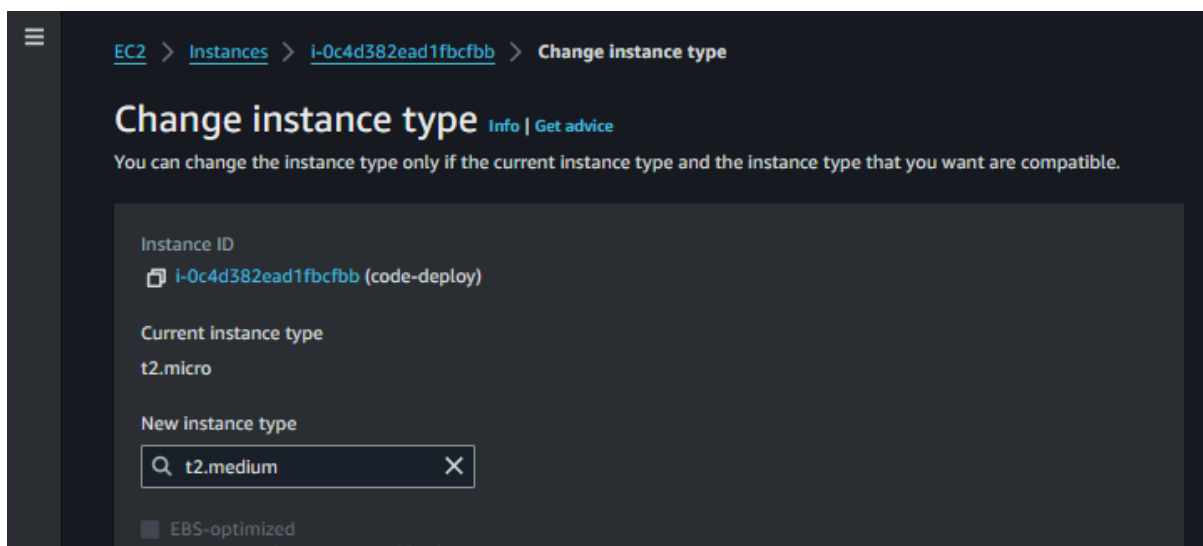
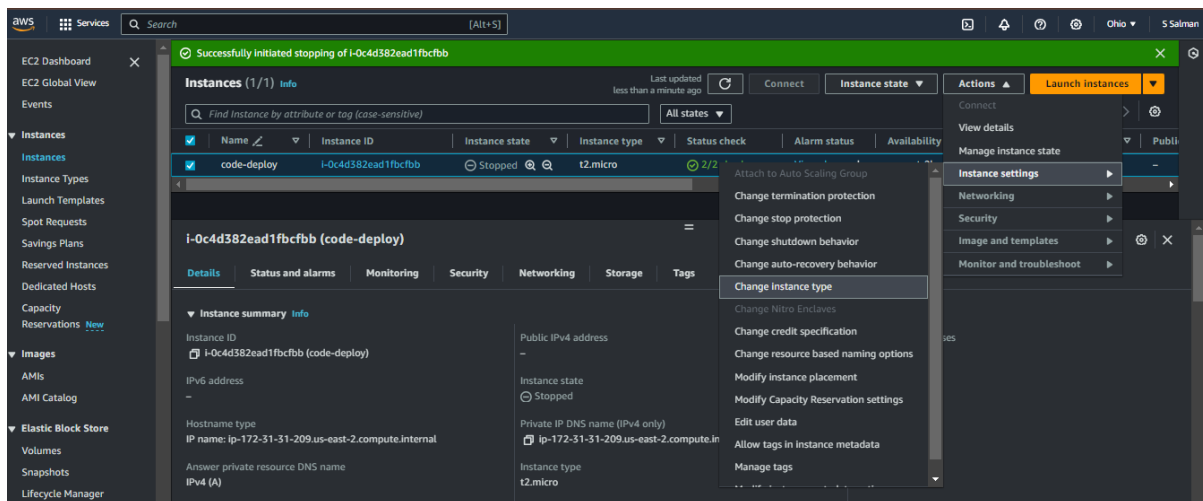
Failed

1%

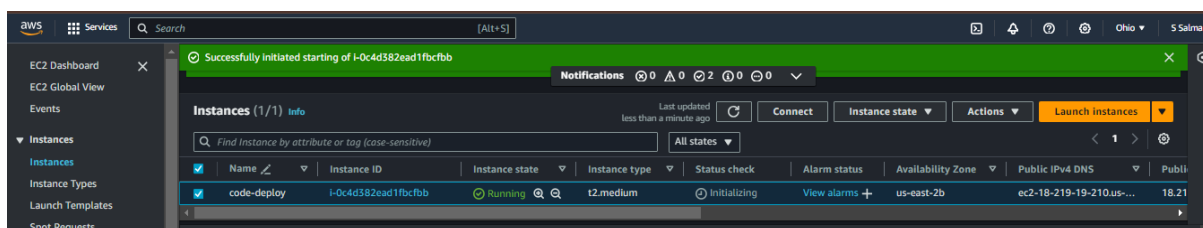
Deployment details

Application	Deployment ID	Status
awspipeline	d-MQCOIC056	Failed
Deployment configuration	Deployment group	Initiated by

Changing instances type t2. Medium , I notified in above



Changed successfully



Got an another got an error to download bundle

Developer Tools

CodeDeploy

Source • CodeCommit

Artifacts • CodeArtifact

Build • CodeBuild

Deploy • CodeDeploy

Getting started

Deployments

Deployment

Applications

Deployment configurations

On-premises instances

Pipeline • CodePipeline

Settings

Go to resource

Feedback

CodeDeployDefault.AllAtOnce

aws-codedeploy

User action

Deployment description

-

Revision details

Revision location

github://SalmanFarsi123/aws-pipeline.git/3219b0c36cb4aa98a36e488dff0daf5684e3f04

Revision created

8 minutes ago

Revision description

Application revision registered by Deployment ID: d-MQC0IC0S6

Event	Duration	Status	Error code	Start time	End time
ApplicationStop	less than one second	Succeeded	-	Aug 28, 2024 9:59 PM (UTC+5:30)	Aug 28, 2024 9:59 PM (UTC+5:30)
DownloadBundle	2 minutes 10 seconds	Failed	UnknownError	Aug 28, 2024 9:59 PM (UTC+5:30)	Aug 28, 2024 10:01 PM (UTC+5:30)
Beforeinstall	-	Skipped	-	-	-
Install	-	Skipped	-	-	-
Afterinstall	-	Skipped	-	-	-
ApplicationStart	-	Skipped	-	-	-
ValidateService	-	Skipped	-	-	-

Come Here Click on to create deployment

aws

Services

Q Search

[Alt+S]

Ohio

S Salman

Developer Tools

CodeDeploy

Source • CodeCommit

Artifacts • CodeArtifact

Build • CodeBuild

Deploy • CodeDeploy

Getting started

Deployments

Applications

Application

Settings

Deployment configurations

On-premises instances

Pipeline • CodePipeline

Settings

Developer Tools > CodeDeploy > Applications > awspipeline > github://SalmanFarsi123/aws-pipeline.git/3219b0c36cb4aa98a36e488dff0daf5684e3f04

Create deployment

Revision

Revision details

Revision location

github://SalmanFarsi123/aws-pipeline.git/3219b0c36cb4aa98a36e488dff0daf5684e3f04

Created

14 minutes ago

Last deployed

8 minutes ago

First deployed

14 minutes ago

Description

Application revision registered by Deployment ID: d-MQC0IC0S6

Current deployment groups

Deployment group name

Last deployed

Everything same

[Developer Tools](#) > [CodeDeploy](#) > [Applications](#) > [awspipeline](#) > [Create deployment](#)

Create deployment

Deployment settings

Application
awspipeline

Deployment group
aws-codedeploy

Compute platform
EC2/On-premises

Deployment type
In-place

Managed hook execution role
The IAM role used by the CodeDeploy Managed Hook function to perform actions. [Edit Managed Hook execution role.](#)

Revision type

☐ My application is stored in Amazon S3

☒ My application is stored in GitHub

Here need to be remove .git

[Developer Tools](#) > [CodeDeploy](#) > [Applications](#) > [awspipeline](#) > [Create deployment](#)

Create deployment

GitHub token name

Select the name of the token associated to an account you have already connected, or grant AWS CodeDeploy permission to access a different account. To connect to a GitHub account for the first time, type an alias for the account, and then choose [Connect to GitHub](#).

SalmanFarsi123

[Connect to GitHub](#)

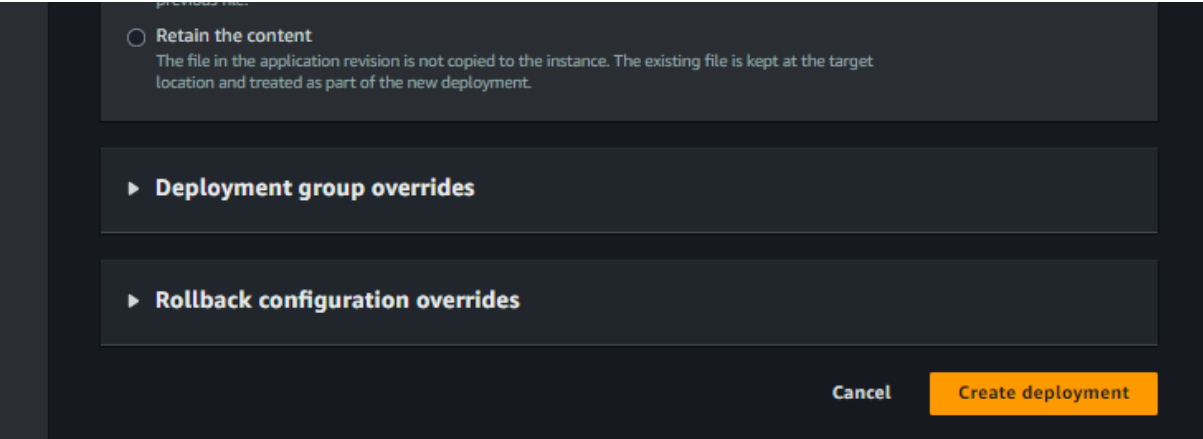
Repository name
SalmanFarsi123/aws-pipeline

Commit ID
3219b0c36cbb4aa98a36e488dff0daf5684e3f04

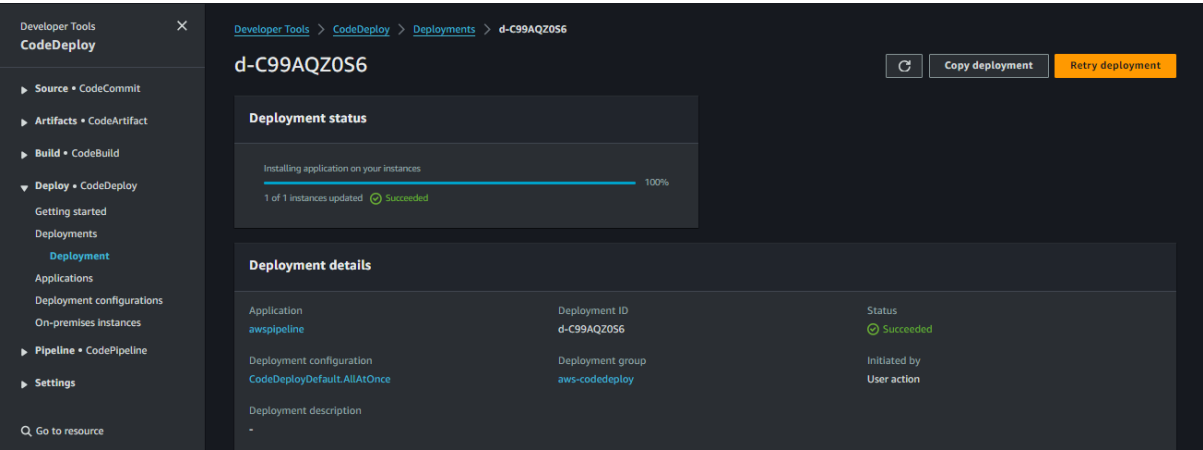
Deployment description

Deployment description - optional
Add a brief description about the deployment

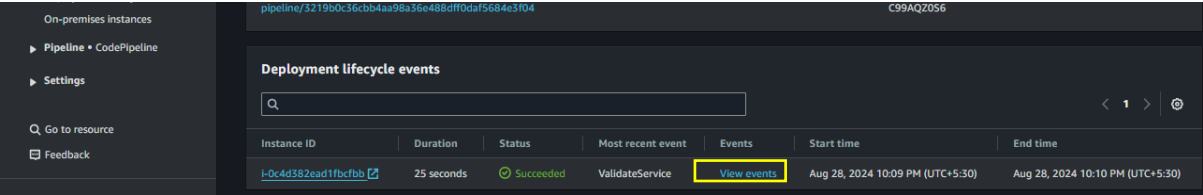
Create Deployment



Now its successfully Created



Scroll below, u will be found this Click on View Events



All the Events Succeeded

Revision details						
Revision location		Revision created		Revision description		
github://SalmanFarsi123/aws-pipeline/3219b0c36cbb4a98a36e488df0daf5684e3f04		1 minute ago		Application revision registered by Deployment ID: d-C99AQZ056		
Event	Duration	Status	Error code	Start time	End time	
ApplicationStop	less than one second	✔ Succeeded	-	Aug 28, 2024 10:09 PM (UTC+5:30)	Aug 28, 2024 10:09 PM (UTC+5:30)	
DownloadBundle	less than one second	✔ Succeeded	-	Aug 28, 2024 10:09 PM (UTC+5:30)	Aug 28, 2024 10:09 PM (UTC+5:30)	
BeforeInstall	19 seconds	✔ Succeeded	-	Aug 28, 2024 10:09 PM (UTC+5:30)	Aug 28, 2024 10:10 PM (UTC+5:30)	
Install	less than one second	✔ Succeeded	-	Aug 28, 2024 10:10 PM (UTC+5:30)	Aug 28, 2024 10:10 PM (UTC+5:30)	
AfterInstall	less than one second	✔ Succeeded	-	Aug 28, 2024 10:10 PM (UTC+5:30)	Aug 28, 2024 10:10 PM (UTC+5:30)	
ApplicationStart	less than one second	✔ Succeeded	-	Aug 28, 2024 10:10 PM (UTC+5:30)	Aug 28, 2024 10:10 PM (UTC+5:30)	
ValidateService	less than one second	✔ Succeeded	-	Aug 28, 2024 10:10 PM (UTC+5:30)	Aug 28, 2024 10:10 PM (UTC+5:30)	

Now copy the Public IP

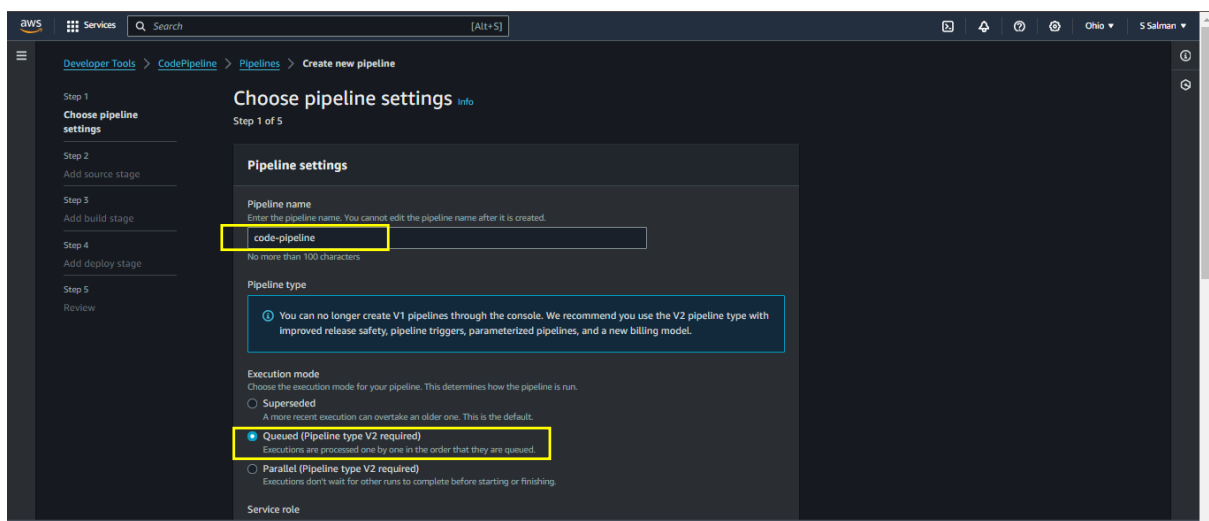
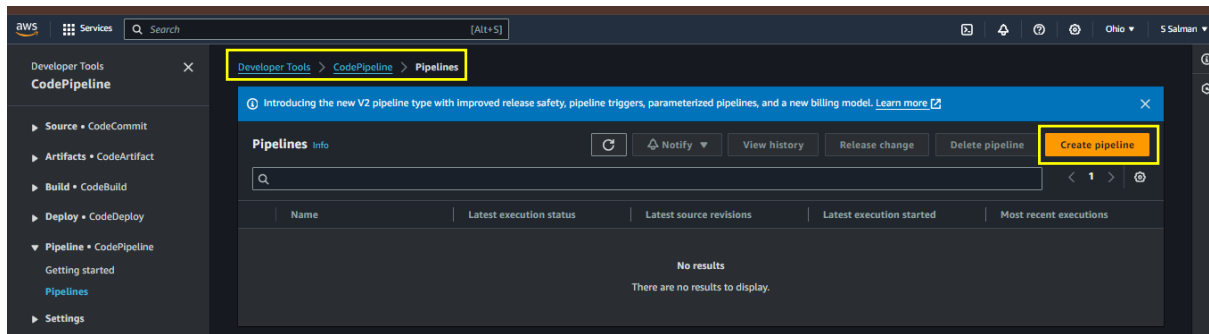
The screenshot shows the AWS Management Console interface. A notification banner at the top states "Successfully initiated starting of i-0c4d382ead1fbcfbb". Below this, the "Instances (1/1)" section shows a table with one instance: "code-deploy" with ID "i-0c4d382ead1fbcfbb", status "Running", and type "t2.medium". The "Public IPv4 DNS" column shows "ec2-18-219-19-210.us-east-2b". Below the table, the "Instance summary" section for "i-0c4d382ead1fbcfbb (code-deploy)" is visible. A yellow box highlights the "Public IPv4 address" "18.219.19.210" with a link to "open address".

Application Deployed Successfully

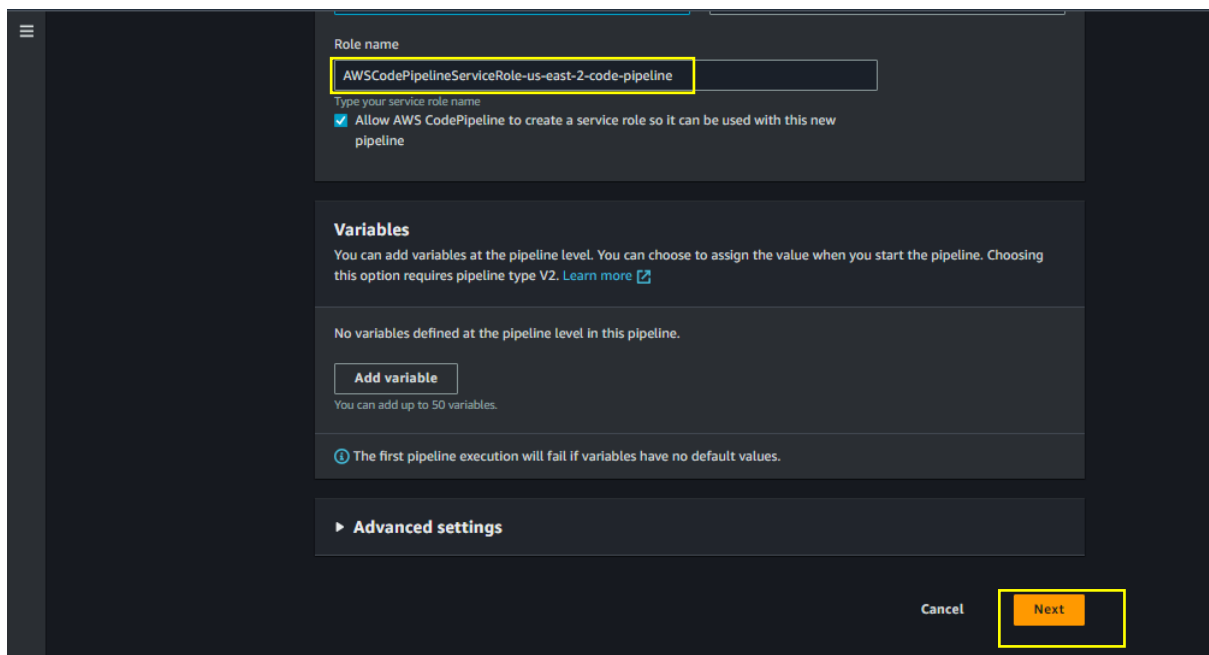
The screenshot shows a web browser window with the URL "18.219.19.210". The page displays the Intellipaat logo and a large red banner with the text "Welcome to Intellipaat!" and "Intellipaat Server Example". Below the banner, there is a sidebar with links to "Hadoop", "AWS", and "Data Science". The main content area features a diagram of a cloud with "S3" and a person standing next to a laptop. To the right of the diagram, a text box states: "AWS is the world's biggest cloud provider which is owned by Amazon. They provide a set of on-demand services to the customers via the internet or 'The Cloud'. Also, you get a pay-as-you-go option where you need to only pay for what you use."

CODE PIPELINE Demo:

Search Codepipeline



We created Codedeployment and codepipeline role as a 1 role



aws

Services

Search

[Alt+S]

Developer Tools > CodePipeline > Pipelines > Create new pipeline

Step 1
Choose pipeline settings

Step 2
Add source stage

Step 3
Add build stage

Step 4
Add deploy stage

Step 5
Review

Add source stage Info

Step 2 of 5

Source

Source provider
This is where you stored your input artifacts for your pipeline. Choose the provider and then provide the connection details.

GitHub (Version 2)

New GitHub version 2 (app-based) action

To add a GitHub version 2 action in CodePipeline, you create a connection, which uses GitHub Apps to access your repository. Use the options below to choose an existing connection or create a new one. [Learn more](#)

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

arn:aws:codestar-connections:us-east-2:746669236695:connection/7210d2f

or

Connect to GitHub

Ready to connect

Your GitHub connection is ready for use.

Repository name

Choose a repository in your GitHub account.

SalmanFarsi123/aws-pipeline

You can type or paste the group path to any project that the provided credentials can access. Use the format 'group/subgroup/project'.

Default branch

Default branch will be used only when pipeline execution starts from a different source or manually started.

master

Output artifact format

Choose the output artifact format.

CodePipeline default

AWS CodePipeline uses the default zip format for artifacts in the pipeline. Does not include Git metadata about the repository.

Full clone

AWS CodePipeline passes metadata about the repository that allows subsequent actions to do a full Git clone. Only supported for AWS CodeBuild actions.

Trigger

Trigger type

Choose the trigger type that starts your pipeline.

No filter

Starts your pipeline on any push and clones the HEAD.

Specify filter

Starts your pipeline on a specific filter and clones the exact commit. Pipeline type V2 is required.

Do not detect changes

Don't automatically trigger the pipeline.

Don't automatically trigger the pipeline.

You can add additional sources and triggers by editing the pipeline after it is created.

Cancel

Previous

Next

awsdevops is codebuild project name, we need to attach codebuild also

The screenshot shows the AWS CodePipeline console with the 'Add build stage' step selected. The left sidebar lists the steps: Step 1 (Choose pipeline settings), Step 2 (Add source stage), Step 3 (Add build stage), Step 4 (Add deploy stage), and Step 5 (Review). The main area is titled 'Add build stage' and 'Step 3 of 5'. The 'Build - optional' section is highlighted. The 'Build provider' dropdown is set to 'AWS CodeBuild'. The 'Region' dropdown is set to 'US East (Ohio)'. The 'Input artifacts' section has a 'SourceArtifact' dropdown and an 'Add' button. The 'Project name' section has a search bar with 'awsdevops' entered and a 'Create project' button. The 'Environment variables - optional' section is also visible.

aws

Services

Search

[Alt+S]

Developer Tools > CodePipeline > Pipelines > Create new pipeline

Step 1
Choose pipeline settings

Step 2
Add source stage

Step 3
Add build stage

Step 4
Add deploy stage

Step 5
Review

Add build stage Info

Step 3 of 5

Build - optional

Build provider
This is the tool of your build project. Provide build artifact details like operating system, build spec file, and output file names.

AWS CodeBuild

Region

US East (Ohio)

Input artifacts
Choose an input artifact for this action. [Learn more](#)

SourceArtifact

Add

No more than 100 characters

Project name
Choose a build project that you have already created in the AWS CodeBuild console. Or create a build project in the AWS CodeBuild console and then return to this task.

awsdevops or Create project

Environment variables - optional
Choose the key, value, and type for your CodeBuild environment variables. In the value field, you can reference variables generated by

The screenshot shows the 'Add environment variable' and 'Build type' sections of the 'Add build stage' step. The 'Project name' search bar still contains 'awsdevops'. The 'Add environment variable' button is visible. The 'Build type' section has two options: 'Single build' (selected) and 'Batch build'. The 'Next' button is highlighted.

Project name
Choose a build project that you have already created in the AWS CodeBuild console. Or create a build project in the AWS CodeBuild console and then return to this task.

awsdevops or Create project

Environment variables - optional
Choose the key, value, and type for your CodeBuild environment variables. In the value field, you can reference variables generated by CodePipeline. [Learn more](#)

Add environment variable

Build type

☒ Single build
Triggers a single build.

☐ Batch build
Triggers multiple builds as a single execution.

Cancel Previous Skip build stage Next

Now here we need to select that codedeploy

Developer Tools > CodePipeline > Pipelines > Create new pipeline

Step 1
Choose pipeline settings

Step 2
Add source stage

Step 3
Add build stage

Step 4
Add deploy stage

Step 5
Review

Add deploy stage Info

Step 4 of 5

Deploy - optional

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

AWS CodeDeploy

Region
US East (Ohio)

Input artifacts
Choose an input artifact for this action. [Learn more](#)

BuildArtifact

No more than 100 characters

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

awspipeline

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.

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

awspipeline

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.

aws-codedeploy

☐ Configure automatic rollback on stage failure

Cancel Previous Skip deployment stage **Next**

Step 4: Add deploy stage

Deploy action provider

Deploy action provider
AWS CodeDeploy

ApplicationName
awspipeline

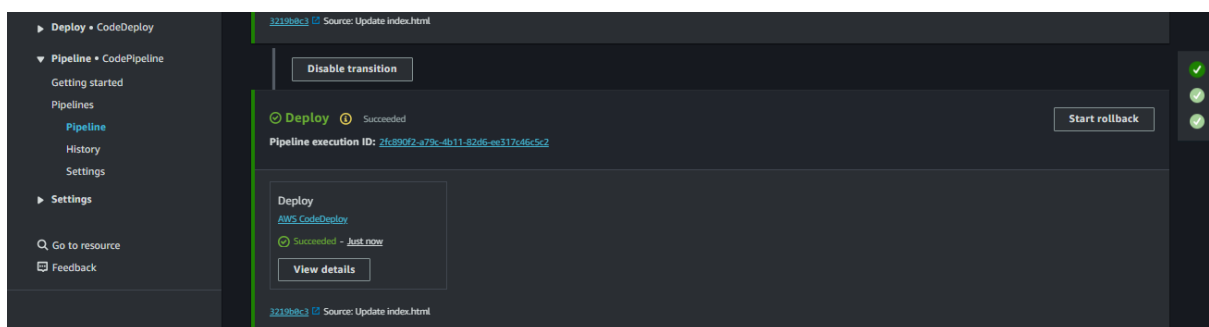
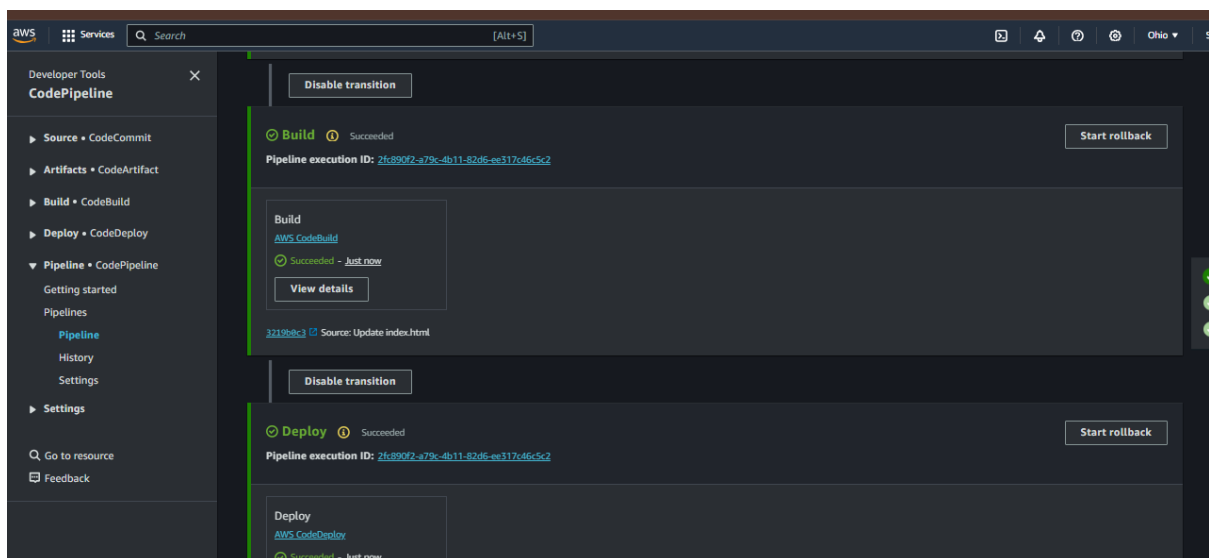
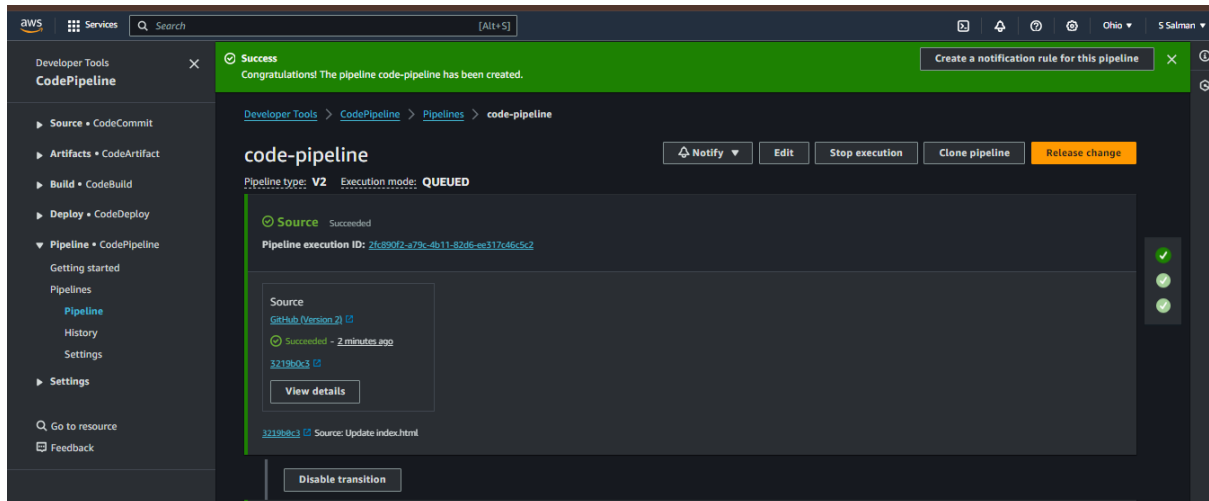
DeploymentGroupName
aws-codedeploy

Configure automatic rollback on stage failure
Disabled

Cancel Previous **Create pipeline**

Now this is the CI/CD Pipeline Structure

Source From GitHub>And then CodeBuild> CodeDeploy> CodePipeline, Pipeline has been created successfully, according to setup push or pull will be happen and our to application will be change and this is known as Continuous Integration and Continuous Deployment



AWS CodeCommit :

is a fully managed source control service that hosts secure Git repositories, allowing you to store and manage your code in the cloud. It integrates with other AWS services and provides features like pull requests, branching, and code reviews, making it suitable for collaborative software development.

Terminology in Azure DevOps :

AWS CodeCommit is comparable to **Azure Repos** in Azure DevOps.

AWS CodeBuild :

is a fully managed service that automates the process of compiling your source code, running tests, and producing build artifacts. It helps streamline continuous integration by automatically building and testing your code every time changes are pushed to your repository.

Terminology in Azure DevOps :

AWS CodeBuild is comparable to **Azure Pipelines (Build pipelines)** in Azure DevOps.

AWS CodeDeploy :

is a service that automates the deployment of applications to various environments, such as Amazon EC2 instances, on-premises servers, and AWS Lambda. It helps ensure that your application is deployed consistently and with minimal downtime.

Terminology in Azure DevOps :

AWS CodeDeploy is comparable to **Azure Pipelines (Release pipelines)** in Azure DevOps.

AWS CodePipeline:

is a service that automates the entire release process, allowing you to build, test, and deploy your code every time there's a change. It helps streamline continuous delivery by connecting all the stages of your CI/CD pipeline into a single workflow.

Terminology in Azure DevOps :

AWS CodePipeline is comparable to **Azure Pipelines** in Azure DevOps.