

## Task 16: Deploy a simple Nginx application using AWS code commit and deploy & access via browser

### 1. Create code commit repo:

[Developer Tools](#) > [CodeCommit](#) > [Repositories](#) > Create repository

## Create repository

Create a secure repository to store and share your code. Begin by typing a repository name and a description for your repository. Repository names are included in the URLs for that repository.

### Repository settings

Repository name

100 characters maximum. Other limits apply.

Description - *optional*

1,000 characters maximum

Tags

Add tag

► Additional configuration

Success  
Repository successfully created

Create a notification rule for this repository

[Developer Tools](#) > [CodeCommit](#) > [Repositories](#) > webapplication

## webapplication

Clone URL ▼

▼ Connection steps

HTTPS

SSH

HTTPS (GRC)

codecommit

i-0aa03e64eae87172b

Running

t2.micro

Initializing

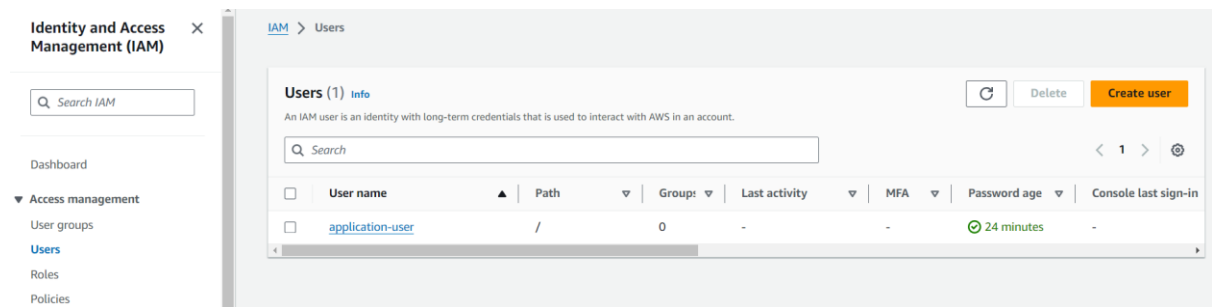
View alarms +

ap-south-1a

ec2-13-232-189-

i-0aa03e64eae87172b (codecommit)

## IAM user:



## Install git, clone repo, add, push in code commit:

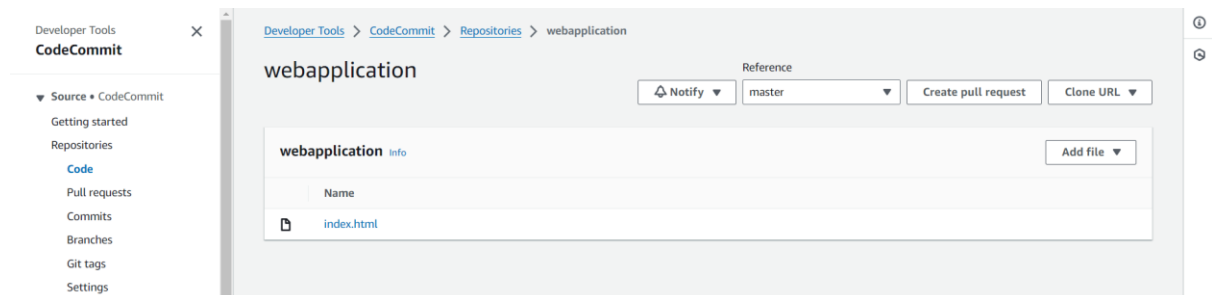
### 1. Index.html file:

```
[ec2-user@ip-172-31-39-139 ~]$ sudo yum install git -y
Last metadata expiration check: 0:00:17 ago on Tue Jul 16 10:34:56 2024.
Dependencies resolved.
=====
Package                                Architecture      Version            Repository          Size
-----
Installing:
git                                     x86_64            2.40.1-1.amzn2023.0.3  amazonlinux         54 k
Installing dependencies:
git-core                               x86_64            2.40.1-1.amzn2023.0.3  amazonlinux         4.3 M
git-core-doc                           noarch            2.40.1-1.amzn2023.0.3  amazonlinux         2.6 M
perl-Error                             noarch            1:0.17029-5.amzn2023.0.2  amazonlinux         41 k
perl-File-Find                         noarch            1.37-477.amzn2023.0.6  amazonlinux         26 k
perl-Git                               noarch            2.40.1-1.amzn2023.0.3  amazonlinux         42 k
perl-TermReadKey                       x86_64            2.38-9.amzn2023.0.2    amazonlinux         36 k
perl-lib                               x86_64            0.65-477.amzn2023.0.6  amazonlinux         15 k
```

```
[ec2-user@ip-172-31-39-139 ~]$ git clone https://git-codecommit.ap-south-1.amazonaws.com/v1/repos/webapplication
Cloning into 'webapplication'...
Username for 'https://git-codecommit.ap-south-1.amazonaws.com': application-user-at-891377228959
Password for 'https://application-user-at-891377228959@git-codecommit.ap-south-1.amazonaws.com':
warning: You appear to have cloned an empty repository.
[ec2-user@ip-172-31-39-139 ~]$ ls
webapplication
[ec2-user@ip-172-31-39-139 ~]$ cd webapplication/
[ec2-user@ip-172-31-39-139 webapplication]$ vi index.html
[ec2-user@ip-172-31-39-139 webapplication]$ git add.
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
  add
[ec2-user@ip-172-31-39-139 webapplication]$ git add .
[ec2-user@ip-172-31-39-139 webapplication]$ git commit -m "index file added"
```

```
[ec2-user@ip-172-31-39-139 webapplication]$ git push
Username for 'https://git-codecommit.ap-south-1.amazonaws.com': application-user-at-891377228959
Password for 'https://application-user-at-891377228959@git-codecommit.ap-south-1.amazonaws.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 264 bytes | 264.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote: Validating objects: 100%
To https://git-codecommit.ap-south-1.amazonaws.com/v1/repos/webapplication
 * [new branch]      master -> master
[ec2-user@ip-172-31-39-139 webapplication]$
```



## webapplication / index.html [Info](#)

```
1 welcome
2 sharmila
```

## 2. Buildspec.yaml file

```
[ec2-user@ip-172-31-39-139 webapplication]$ vi buildspec.yaml
[ec2-user@ip-172-31-39-139 webapplication]$ git add .
[ec2-user@ip-172-31-39-139 webapplication]$ git commit -m "buildspec file added"
[master e196f94] buildspec file added
Committer: EC2 Default User <ec2-user@ip-172-31-39-139.ap-south-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
```

```
git config --global --edit
```

After doing this, you may fix the identity used for this commit with:

```
git commit --amend --reset-author
```

```
2 files changed, 23 insertions(+)
create mode 100644 buildsepc.Yaml
create mode 100644 buildspec.yaml
[ec2-user@ip-172-31-39-139 webapplication]$ git push
Username for 'https://git-codecommit.ap-south-1.amazonaws.com': application-user-at-891377228959
Password for 'https://application-user-at-891377228959@git-codecommit.ap-south-1.amazonaws.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Compressing objects: 100% (3/3), done.
```

```
[ec2-user@ip-172-31-39-139 webapplication]$ git push
Username for 'https://git-codecommit.ap-south-1.amazonaws.com': application-user-at-891377228959
Password for 'https://application-user-at-891377228959@git-codecommit.ap-south-1.amazonaws.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 585 bytes | 585.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
remote: Validating objects: 100%
To https://git-codecommit.ap-south-1.amazonaws.com/v1/repos/webapplication
c5f8e54..e196f94 master -> master
[ec2-user@ip-172-31-39-139 webapplication]$
```

Developer Tools **CodeCommit**

Developer Tools > CodeCommit > Repositories > webapplication

webapplication

Reference: master

Notify Create pull request Clone URL

Name
buildspec.yaml
index.html

Add file

## webapplication / index.html [Info](#)

The code editor uses the Tab key to control indentation.

```
1 welcome
2 sharmila
3
```

## webapplication

Reference

 Notify ▼

master ▼

Create pull request

Clone URL ▼

webapplication / buildspec.yaml [Info](#)

Edit

```
1 version: 0.2
2 phases:
3   install:
4     commands:
5       - echo "Installing Nginx server"
6       - sudo apt-get update
7       - sudo apt-get install nginx -y
8
9   build:
10    commands:
11      - echo "Build started on 16 july"
12      - sudo cp index.html /var/www/html/
13  post_build:
14    commands:
15      - echo "Configuring Nginx"
16  artifacts:
17    files:
18      - '**/*'
19
20
21
```

### 3. Code build:

## Create build project

### Project configuration

Project name

awspipelineproject

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

AWS CodeCommit

Repository

webapplication

Reference type

Choose the source version reference type that contains your source code.

☒ Branch

☐ Git tag

☐ Commit ID

Branch

Choose a branch that contains the code to build.

master

Commit ID - *optional*

Choose a commit ID. This can shorten the duration of your build.

Source version [Info](#)

refs/heads/master

35810f3f delete the file

## 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

## Image version

Always use the latest image for this runtime version

## Service role

☒ New service role

Create a service role in your account

☐ Existing service role

Choose an existing service role from your account

## Role name

webapplication-user

[Amazon S3](#) > [Buckets](#) > [sharmi-pipelinebucket](#) > Create folder

## Create folder [Info](#)

Use folders to group objects in buckets. When you create a folder, S3 creates an object using the name that you specify followed by a slash (/). This object then appears as folder on the console. [Learn more](#)



### Your bucket policy might block folder creation

If your bucket policy prevents uploading objects without specific tags, metadata, or access control list (ACL) grantees, you will not be able to create a folder using this configuration. Instead, you can use the [upload configuration](#) to upload an empty folder and specify the appropriate settings.

## Folder

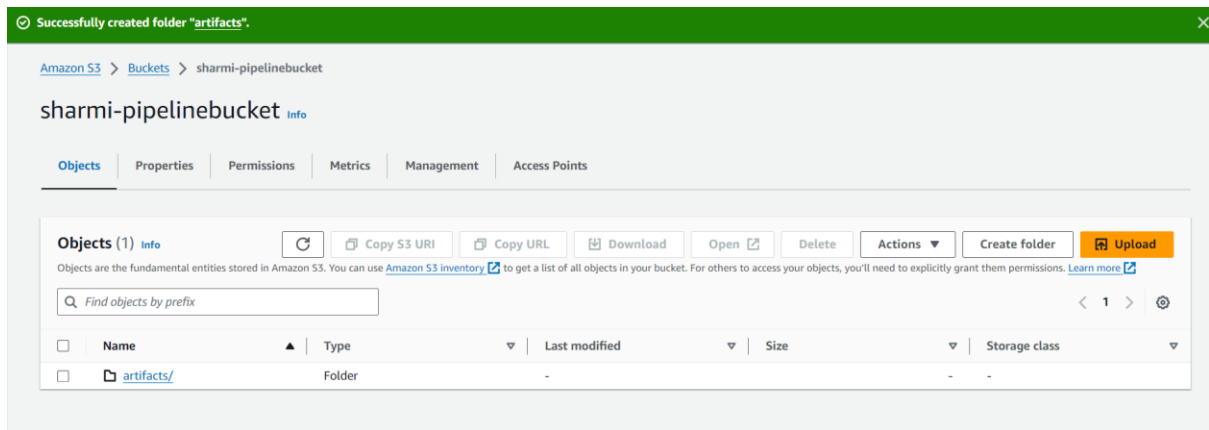
### Folder name

artifacts

Folder names can't contain "/". [See rules for naming](#)

## Server-side encryption [Info](#)

Server-side encryption protects data at rest.



## Artifacts

Add artifact

### Artifact 1 - Primary

Type

Amazon S3

You might choose no artifacts if you are running tests or pushing a Docker image to Amazon ECR.

Bucket name

sharmi-pipelinebucket

Name

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.

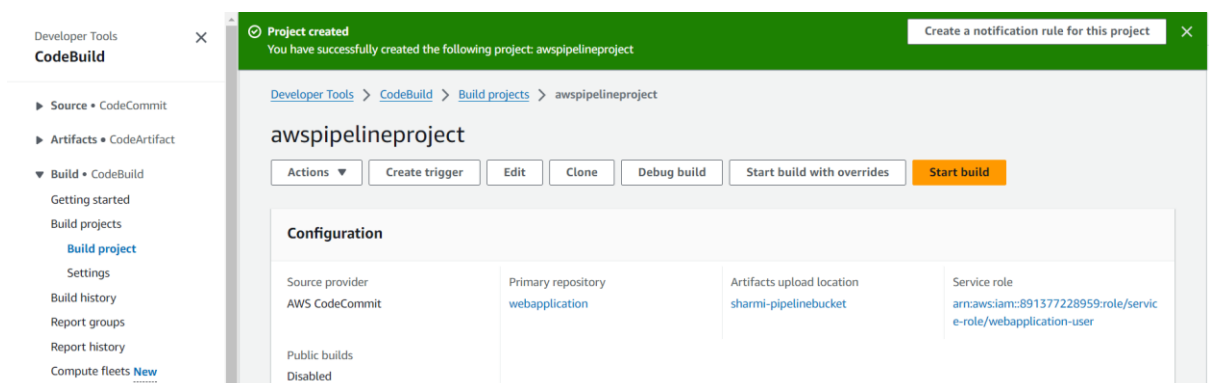
artifact

☐ Enable semantic versioning  
Use the artifact name specified in the buildspec file

Path - optional

The path to the build output ZIP file or folder.

Example: MyPath/MyArtifact.zip.



[Developer Tools](#) > [CodeCommit](#) > [Repositories](#) > webapplication

webapplication

Reference

Notify

master

Create pull request

Clone URL

webapplication / buildspec.yaml

Info

Edit

```
1 version: 0.2
2 phases:
3   install:
4     commands:
5       - echo "Installing Nginx server"
6       - sudo apt-get update
7       - sudo apt-get install nginx -y
8
9   build:
10    commands:
11      - echo "Build started on 16 july"
12      - sudo cp index.html /var/www/html/
13  post_build:
14    commands:
15      - echo "Configuring Nginx"
16  artifacts:
17    files:
18      - '**/*'
19
20
21
```

[Developer Tools](#) > [CodeBuild](#) > Build projects

Build projects

Info

Refresh

Actions

Create trigger

View details

Start build

Create project

Search

Your projects

< 1 >

Settings

	Name	Source provider	Repository	Latest build status	Description	Last Modified
<input type="radio"/>	pipelineaws	AWS CodeCommit	webapplication	Succeeded	-	36 minutes ago

[Build history](#) | [Batch history](#) | [Project details](#) | [Build triggers](#) | [Metrics](#)

Build history

Refresh

Stop build

View artifacts

View logs

Delete builds

Retry build


< 1 >

Settings

<input type="checkbox"/>	Build run	Status	Build number	Source version	Submitter	Duration	Completed
<input type="checkbox"/>	pipelineaws:730042a9-410d-4ba9-a0f5-c511fee0a87c	Succeeded	1	refs/heads/master	root	33 seconds	36 minutes ago










# artifact/

 Copy S3 URI

Objects | Properties




Objects (3) [Info](#)

  Copy S3 URI  Copy URL  Download  Open  Delete Actions ▾ Create folder  Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

 Find objects by prefix

< 1 > 

<input type="checkbox"/>	Name ▲	Type ▼	Last modified ▼	Size ▼	Storage class ▼
<input type="checkbox"/>	 <a href="#">.git/</a>	Folder	-	-	-
<input type="checkbox"/>	 <a href="#">buildspec.yaml</a>	yaml	July 16, 2024, 18:11:56 (UTC+05:30)	298.0 B	Standard
<input type="checkbox"/>	 <a href="#">index.html</a>	html	July 16, 2024, 18:11:57 (UTC+05:30)	18.0 B	Standard

## 4. Code deploy:

[Developer Tools](#) > [CodeDeploy](#) > [Applications](#) > Create application

### Create application

#### Application configuration

Application name  
Enter an application name

100 character limit

Compute platform  
Choose a compute platform

Tags

Add tag

[Cancel](#) [Create application](#)

✔ Application created  
In order to create a new deployment, you must first create a deployment group.

Create a notification rule for this application

[Developer Tools](#) > [CodeDeploy](#) > [Applications](#) > demoapplication

### demoapplication

[Notify](#) [Delete application](#)

#### Application details

Name	Compute platform
demoapplication	EC2/On-premises

# Create service role for code deploy:

## 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

Choose a use case for the specified service.

Use case

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

Role codedeploy-servicerole created. View role

IAM > Roles

Roles (8) Info

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Q code

X

2 matches

< 1 > ⚙

<input type="checkbox"/>	Role name	Trusted entities	Last activity
<input type="checkbox"/>	<a href="#">codebuild</a>	AWS Service: codebuild	16 hours ago
<input type="checkbox"/>	<a href="#">codedeploy-servicerole</a>	AWS Service: codedeploy	-

Summary

Edit

Creation date

July 17, 2024, 11:36 (UTC+05:30)

ARN

arn:aws:iam::891377228959:role/codedeploy-servicerole

Last activity

-

Maximum session duration

1 hour

- Permissions
- Trust relationships
- Tags
- Access Advisor
- Revoke sessions

Permissions policies (1) Info

Refresh

Simulate

Remove

Add permissions

Attach policies

Create inline policy

You can attach up to 10 managed policies.

Search

Filter by Type

All types

Policy name

Type

Attached entities

AWSCodeDeployRole

AWS managed

1

IAM

Roles

codedeploy-servicerole

Add permissions

Attach policy to codedeploy-servicerole

Current permissions policies (1)

Other permissions policies (1/943)

Refresh

Search

Filter by Type

All types

1 2 3 4 5 6 7 ... 48

Policy name

Type

Description

AdministratorAccess

AWS managed - job function

Provides full access to AWS services an...

Policy was successfully attached to role.

Search

Filter by Type

All types

1

Policy name

Type

Attached entities

AdministratorAccess

AWS managed - job function

2

AWSCodeDeployRole

AWS managed

1


In this place we have to give our code deploy instance.so created new instance

### 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

0 unique matched instances. [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

Q

Remove tag

Add tag

1 Add tag group

Create new instance for code deploy:

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

## Launch an instance [Info](#)

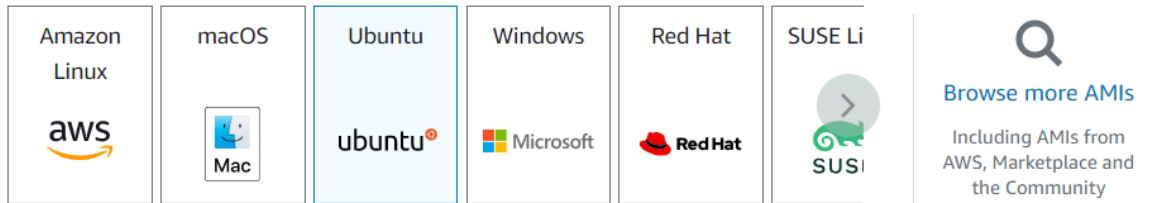
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

### Name and tags [Info](#)

Name

codedepoly

[Add additional tags](#)



## Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type

Free tier eligible

ami-0c2af51e265bd5e0e (64-bit (x86)) / ami-0c938b21c7e598cd0 (64-bit (Arm))

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

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type

### Description

Ubuntu Server 22.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

## Architecture

64-bit (x86)



## AMI ID

ami-0c2af51e265bd5e0e

Verified provider

codebuild

i-04888a19787435f0a

Running

t2.micro

-

View alarms

+

ap-south-1a

ec2-13-233-17

i-04888a19787435f0a (codebuild)

⚙️ ✕

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary [Info](#)

Instance ID

i-04888a19787435f0a (codebuild)

IPv6 address

-

Public IPv4 address

13.233.178.205 | [open address](#)

Instance state

Running

Private IPv4 addresses

172.31.39.248

Public IPv4 DNS

ec2-13-233-178-205.ap-south-1.compute.amazonaws.com | [open address](#)

## Create deployment group for my application:

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

### Create deployment group

#### Application

Application  
demoapplication  
Compute type  
EC2/On-premises

#### Deployment group name

Enter a deployment group name

demoapplication-dg

100 character limit

## For this we have to create service role for code deploy:

#### Service role

Use entered value: arn:aws:iam::891377228959:role/codedeploy-servicerole

codedeploy-servicerole

arn:aws:iam::891377228959:role/codedeploy-servicerole

ances.

Q arn:aws:iam::891377228959:role/codedeploy-servicerole



#### 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.

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*

[Remove tag](#)

[Add tag](#)

[+ Add tag group](#)

☐ On-premises instances

### Matching instances

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

## Click create deployment group

Success

Deployment group created

[Developer Tools](#) > [CodeDeploy](#) > [Applications](#) > [demoapplication](#) > demoapplication-dg

demoapplication-dg

[Edit](#) [Delete](#) [Create deployment](#)

Deployment group details

Deployment group name	Application name	Compute platform
demoapplication-dg	demoapplication	EC2/On-premises
Deployment type	Service role ARN	Deployment configuration
In-place	arn:aws:iam::891377228959:role/codedeploy-servicerole	CodeDeployDefault.AllAtOnce
Rollback enabled	Agent update scheduler	
False	<a href="#">Learn to schedule update in AWS Systems Manager</a>	



## Install code deploy agent. For this we write shell script

```
# Download the CodeDeploy agent package
wget https://aws-codedeploy-ap-south-1.s3.ap-south-1.amazonaws.com/releases/codedeploy-agent_1.3.2-1902_all.deb

# Create a directory for unpacking the package
mkdir -p codedeploy-agent_1.3.2-1902_ubuntu22

# Unpack the downloaded package
dpkg-deb -R codedeploy-agent_1.3.2-1902_all.deb codedeploy-agent_1.3.2-1902_ubuntu22

# Modify the control file to change dependencies
sed 's/Depends:./Depends: ruby3.0/' -i ./codedeploy-agent_1.3.2-1902_ubuntu22/DEBIAN/control

# Repack the modified package
dpkg-deb -b codedeploy-agent_1.3.2-1902_ubuntu22

# Install the modified package
sudo dpkg -i codedeploy-agent_1.3.2-1902_ubuntu22.deb

# Check if the CodeDeploy agent service is listed
systemctl list-units --type=service | grep codedeploy

# Check the status of the CodeDeploy agent service
sudo service codedeploy-agent status
```

[illegible]

## Create another role for code deploy [give full access to ec2,s3,deployfullaccess,codedeployrole]

### 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

EC2

Choose a use case for the specified service.

Use case

☒ **EC2**

Allows EC2 instances to call AWS services on your behalf.

Role codedeploy2-servicerole created.

View role

IAM > Roles

#### Roles (9) Info

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Q code

3 matches

<input type="checkbox"/>	Role name	Trusted entities	Last activity
<input type="checkbox"/>	<a href="#">codebuild</a>	AWS Service: codebuild	20 hours ago
<input type="checkbox"/>	<a href="#">codedeploy-servicerole</a>	AWS Service: codedeploy	-
<input type="checkbox"/>	<a href="#">codedeploy2-servicerole</a>	AWS Service: ec2	-

# Add permissions for codedeploy2-servicerole:

IAM

>

Roles

>

codedeploy2-servicerole

codedeploy2-servicerole

Info

Allows EC2 instances to call AWS services on your behalf.

Delete

Summary

Edit

Creation date

July 17, 2024, 15:14 (UTC+05:30)

ARN

arn:aws:iam::891377228959:role/codedeploy2-servicerole

Instance profile ARN

arn:aws:iam::891377228959:instance-profile/codedeploy2-servicerole

Last activity

51 minutes ago

Maximum session duration

1 hour

Permissions

Trust relationships

Tags

Access Advisor

Revoke sessions

Permissions policies (5)

Info

You can attach up to 10 managed policies.

Refresh

Simulate

Remove

Add permissions

Filter by Type

Permissions policies (5)

Info

You can attach up to 10 managed policies.

Refresh

Simulate

Remove

Add permissions

Search

Filter by Type

All types

< 1 > ⚙

<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	<div><div>+</div><div>AdministratorAccess</div></div>	AWS managed - job function	<u>3</u>
<input type="checkbox"/>	<div><div>+</div><div>AmazonEC2FullAccess</div></div>	AWS managed	<u>1</u>
<input type="checkbox"/>	<div><div>+</div><div>AmazonS3FullAccess</div></div>	AWS managed	<u>1</u>
<input type="checkbox"/>	<div><div>+</div><div>AWSCodeDeployFullAccess</div></div>	AWS managed	<u>1</u>
<input type="checkbox"/>	<div><div>+</div><div>AWSCodeDeployRole</div></div>	AWS managed	<u>2</u>

Instances (1/8)

Info

Refresh

Connect

Instance state

Find Instance by attribute or tag (case-sensitive)

All states

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm
<input type="checkbox"/>	2-loadbalancer	i-0b3d11c39cee5ed33	Stopped	t2.micro	-	<a href="#">View a...</a>
<input type="checkbox"/>	windowows	i-073dc0eb17845873a	Stopped	t2.micro	-	<a href="#">View a...</a>
<input type="checkbox"/>	linux-webserver	i-0c82bc665a0c55e44	Stopped	t2.micro	-	<a href="#">View a...</a>
<input type="checkbox"/>	codecommit	i-04434395a02355bbb	Stopped	t2.micro	-	<a href="#">View a...</a>
<input checked="" type="checkbox"/>	codedepoly	i-04888a19787435f0a	Running	t2.micro	-	<a href="#">View a...</a>

Change security groups

Get Windows password

Modify IAM role

Connect

View details

Manage instance state

Instance settings

Networking

Security

Image and templates

Monitor and troubleshoot

Launch instances

Public IPv...

ec2-13-12...

[EC2](#) > [Instances](#) > [i-04888a19787435f0a](#) > [Modify IAM role](#)

## Modify IAM role [Info](#)

Attach an IAM role to your instance.

Instance ID


 [i-04888a19787435f0a](#) (codedeploy)

IAM role

Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

codedeploy2-servicerole ▼



[Create new IAM role](#) 

Cancel

Update IAM role

☑ Successfully attached codedeploy2-servicerole to instance i-04888a19787435f0a



Instances (1/8) [Info](#)



Connect

Instance state ▼

Actions ▼

Launch instances ▼

## Appspec.yml file

### webapplication / appspec.yml [Info](#)

```
1 version: 0.0
2 os: linux
3 files:
4   - source: /
5     destination: /var/www/html
6 hooks:
7   AfterInstall:
8     - location: install_nginx.sh
9       timeout: 300
10    runas: root
11   ApplicationStart:
12     - location: start_nginx.sh
13       timeout: 300
14    runas: root
```

## install\_nginx.sh

### webapplication / install\_nginx.sh [Info](#)

```
1
2 #!/bin/bash
3
4 sudo apt-get update
5 sudo apt-get install nginx -y
6
7
```

## Start\_nginx.sh:

**webapplication / start\_nginx.sh** [Info](#)

```
1 #!/bin/bash
2
3
4 sudo service nginx start
5
```

## 5. Code pipeline:

[Developer Tools](#) > [CodePipeline](#) > Pipelines

Introducing the new V2 pipeline type with improved release safety, pipeline triggers, parameterized pipelines, and a new billing model. [Learn more](#)

**Pipelines** [Info](#)

[View history](#) [Release change](#) [Delete pipeline](#) [Create pipeline](#)

	Name	Latest execution status	Latest source revisions	Latest execution started	Most recent executions
	<b>taskpipeline</b> (Type: V2   Execution mode: QUEUED)	Succeeded	Source – <a href="#">af8a1b0d</a> : Edited index.html	25 minutes ago	<a href="#">View details</a>

**webapplication / index.html** [Info](#)

The code editor uses the Tab key to control indentation.

```
1 welcome
2 sharmila
3
```

← → ↻ Not secure 13.127.100.70

welcome sharmila

I give a change in index.html. That change automatically done.

**webapplication / index.html** [Info](#)

```
1 welcome
2 sharmila
3 good eve
4 how are you?
```

### Most recent executions ×

Trigger

**CloudWatchEvent** - [codepipeline-webapp-master-681032-rule](#) [↗](#)

Pipeline execution ID	Status	Last updated
<a href="#">e6cfb7c2</a> <a href="#">↗</a>	✓ Succeeded	20 minutes ago

Trigger

**CloudWatchEvent** - [codepipeline-webapp-master-681032-rule](#) [↗](#)

Pipeline execution ID	Status	Last updated
<a href="#">71cd41a5</a> <a href="#">↗</a>	✓ Succeeded	1 hour ago

Trigger

**CreatePipeline** - [root](#) [↗](#)

Pipeline execution ID	Status	Last updated
<a href="#">3ed74305</a> <a href="#">↗</a>	✓ Succeeded	1 hour ago

Done

← → ↻ ⚠ Not secure 13.127.100.70

welcome sharmila good eve how are you?