

1.Creating Empty Repository

[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

mywebapp

100 characters maximum. Other limits apply.

Description - optional

1,000 characters maximum

Tags

Add tag

► Additional configuration

AWS KMS key

Cancel

Create

2.Creating User with Codecommit access Roles

[IAM](#) > [Users](#) > My

My

Info

Delete

Summary

ARN

arn:aws:iam::339712699389:user/My

Created

May 06, 2024, 18:59 (UTC+05:30)

Console access

Enabled without MFA

Last console sign-in

Today

Access key 1

Create access key

Permissions

Groups

Tags

Security credentials

Access Advisor

Permissions policies (3)

Permissions are defined by policies attached to the user directly or through groups.

Q Search

Filter by Type

All types

☐

Policy name

▲

☐

Type

▼

☐

Attached via

🔗

☐

🔗

AdministratorAccess

AWS managed - job function

Directly

☐

🔗

AmazonS3FullAccess

AWS managed

Directly

☐

🔗

AWSCodeCommitFullAccess

AWS managed

Directly

[IAM](#) > [Users](#)

Users (1)

Info

Q Search

◀

1

>

⚙

☐

User name

▲

☐

Path

▼

☐

Group

▼

☐

Last activity

▼

☐

MFA

▼

☐

Password age

▼

☐

Console last sign-in

▼

☐

Access key ID

▼

☐

Active k

☐

My

/

0

-

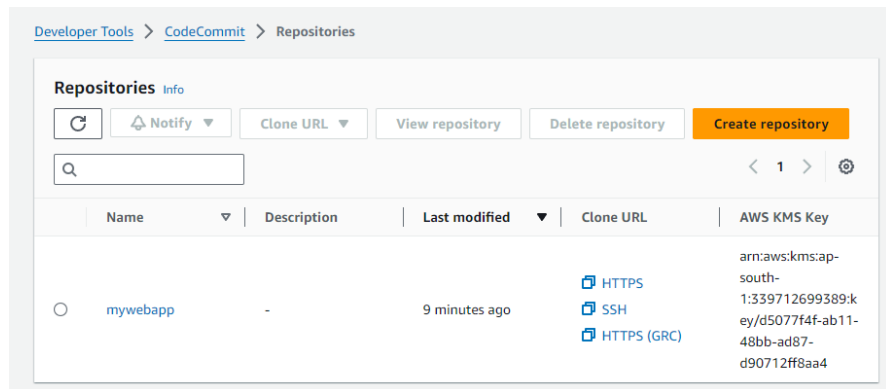
🟢 1 hour

May 06, 2024, 19:16 (...)

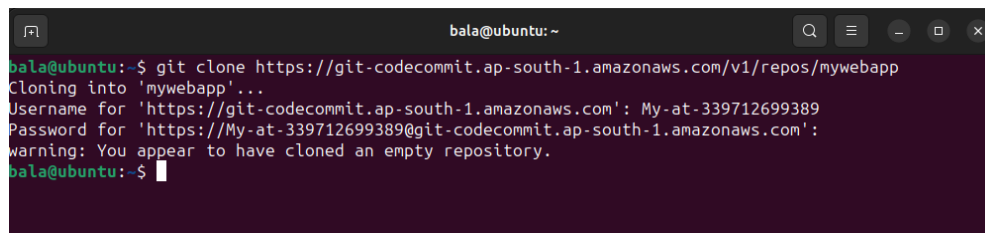
-

-

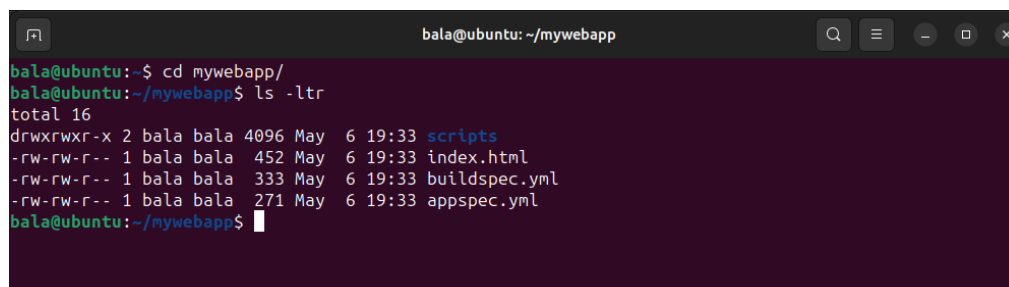
3.Repository Created



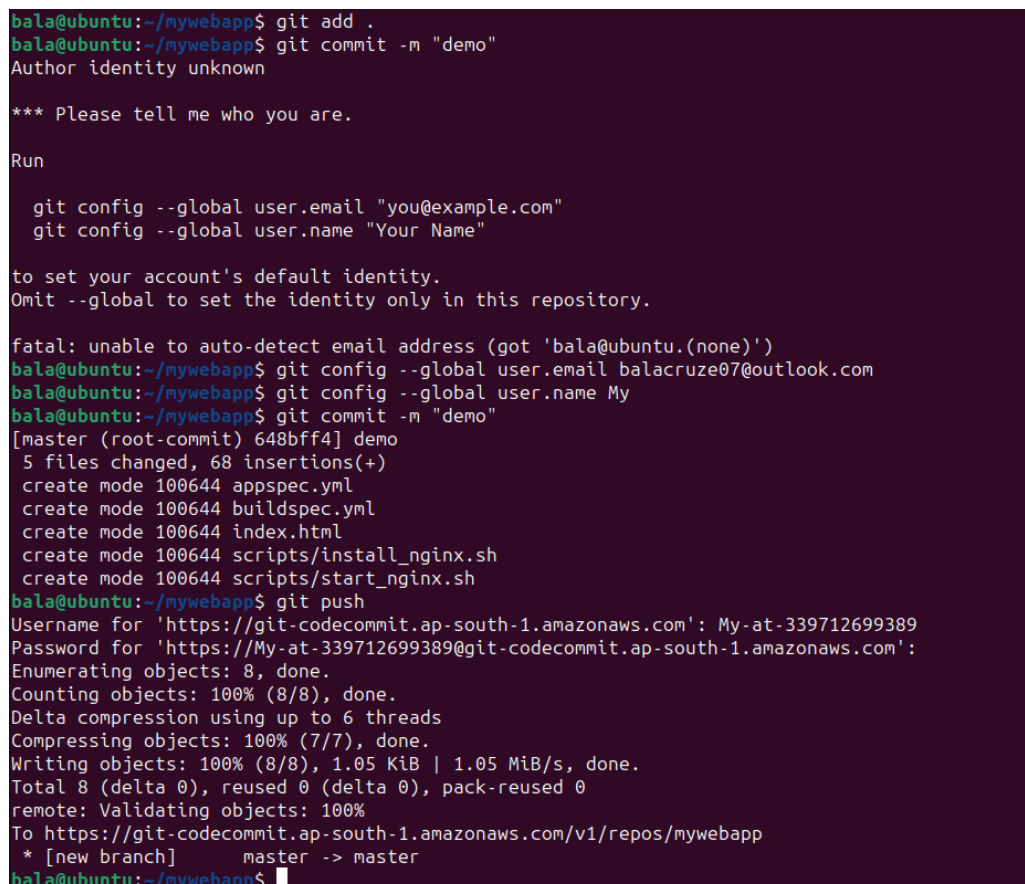
4.Cloning the Repository with Created user



5.Application files have been created in the Local Repository



6.Application files Pushed to AWS Repository



7.AWS Repository with Required files

Developer Tools > CodeCommit > Repositories > mywebapp

mywebapp

Reference: master | Create pull request | Clone URL

mywebapp info | Add file

Name
scripts
appspec.yml
buildspec.yml
index.html

8.Buildspec file for CodeBuild

Developer Tools > CodeCommit > Repositories > mywebapp

mywebapp

Reference: master | Create pull request | Clone URL

mywebapp / buildspec.yml info | Edit

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

9.Creating Build Project

Developer Tools > CodeBuild > Build projects > Create build project

Create build project

Project configuration

Project name

mywebapp

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

mywebapp

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.

10.Setting EC2 Environment to create build

Environment

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 ▼

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

11.Choosing Buildspec file and S3 bucket for Artifact storage

Buildspec

Build specifications

☐ **Insert build commands**
Store build commands as build project configuration

☒ **Use a buildspec file**
Store build commands in a YAML-formatted buildspec file

Buildspec name - optional
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).

buildspec.yml

Batch configuration

You can run a group of builds as a single execution. Batch configuration is also available in advanced option when starting build.

☐ **Define batch configuration - optional**
You can also define or override batch configuration when starting a build batch.

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

Q buckets3dem

X

12.Choosing Logs

Logs

CloudWatch

☒ CloudWatch logs - optional

Checking this option will upload build output logs to CloudWatch.

Group name - optional

aws/codebuild/mywebapp

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.

S3

☒ S3 logs - optional

Checking this option will upload build output logs to S3.

Bucket

Q

Path prefix

☐ Disable S3 log encryption

Cancel

Create build project

13.Created Build Project

Developer Tools > CodeBuild > Build projects > mywebapp

mywebapp

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

Configuration

Source provider AWS CodeCommit	Primary repository mywebapp	Artifacts upload location buckets3dem	Service role arn:aws:iam::339712699389:role/service-role/codebuild-mywebapp-service-role
Public builds Disabled			

Build historyBatch historyProject detailsBuild triggersMetrics

Project configuration

Edit

Name mywebapp	Description -
Project ARN arn:aws:codebuild:ap-south-1:339712699389:project/mywebapp	Build badge Disabled
Concurrent build limit -	
Tags	

14.Build Triggered and Successful

Build status

Status

✔ Succeeded

Initiator

My

Build ARN

arn:aws:codebuild:ap-south-1:339712699309:build/mywebapp:5e36aaf8-55f6-4cee-bca8-ad0e6f96f3c9

Resolved source version

31cb1e8fe643b508e88929cbf865216d9854b6bb

Start time

May 6, 2024 9:44 PM (UTC+5:30)

End time

May 6, 2024 9:44 PM (UTC+5:30)

Build number

1

Build logs

Phase details

Reports

Environment variables

Build details

Resource utilization

Name	Status	Context	Duration	Start time	End time
SUBMITTED	✔ Succeeded	-	<1 sec	May 6, 2024 9:44 PM (UTC+5:30)	May 6, 2024 9:44 PM (UTC+5:30)
QUEUED	✔ Succeeded	-	<1 sec	May 6, 2024 9:44 PM (UTC+5:30)	May 6, 2024 9:44 PM (UTC+5:30)
PROVISIONING	✔ Succeeded	-	3 secs	May 6, 2024 9:44 PM (UTC+5:30)	May 6, 2024 9:44 PM (UTC+5:30)
DOWNLOAD_SOURCE	✔ Succeeded	-	7 secs	May 6, 2024 9:44 PM (UTC+5:30)	May 6, 2024 9:44 PM (UTC+5:30)
INSTALL	✔ Succeeded	-	38 secs	May 6, 2024 9:44 PM (UTC+5:30)	May 6, 2024 9:44 PM (UTC+5:30)
PRE_BUILD	✔ Succeeded	-	<1 sec	May 6, 2024 9:44 PM (UTC+5:30)	May 6, 2024 9:44 PM (UTC+5:30)
BUILD	✔ Succeeded	-	<1 sec	May 6, 2024 9:44 PM (UTC+5:30)	May 6, 2024 9:44 PM (UTC+5:30)
POST_BUILD	✔ Succeeded	-	<1 sec	May 6, 2024 9:44 PM (UTC+5:30)	May 6, 2024 9:44 PM (UTC+5:30)
UPLOAD_ARTIFACTS	✔ Succeeded	-	<1 sec	May 6, 2024 9:44 PM (UTC+5:30)	May 6, 2024 9:44 PM (UTC+5:30)
FINALIZING	✔ Succeeded	-	<1 sec	May 6, 2024 9:44 PM (UTC+5:30)	May 6, 2024 9:44 PM (UTC+5:30)
COMPLETED	✔ Succeeded	-	-	May 6, 2024 9:44 PM (UTC+5:30)	-

15.Artifact stored in the Given S3 Bucket

Amazon S3 > Buckets > buckets3dem > artifact.zip/ > artifact

artifact

Info

Copy S3 URI

Download

Open

Object actions

Properties

Permissions

Versions

Object overview

Owner

bc441b369b3b7ad9eec9d852a8ff8731a44726957848169396e9e2cae865fa93

AWS Region

Asia Pacific (Mumbai) ap-south-1

Last modified

May 6, 2024, 21:44:59 (UTC+05:30)

Size

21.0 KB

Type

Key

artifact.zip/artifact

S3 URI

s3://buckets3dem/artifact.zip/artifact

Amazon Resource Name (ARN)

arn:aws:s3:::buckets3dem/artifact.zip/artifact

Entity tag (ETag)

af1af8752d1cf8d42e91fea101700a74

Object URL

https://buckets3dem.s3.ap-south-1.amazonaws.com/artifact.zip/artifact

16.Creating Application

Developer Tools > CodeDeploy > Applications > Create application

Create application

Application configuration

Application name

Enter an application name

mywebapp

100-character limit

Compute platform

Choose a compute platform

EC2/on-premises

Tags

Add tag

Cancel

Create application

6 | Page

17.nginx Appspec file

Developer Tools > CodeCommit > Repositories > mywebapp

mywebapp

Reference

Notify master Create pull request Clone URL

mywebapp / appspec.yml info Edit

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

18. nginx Files

Developer Tools > CodeCommit > Repositories > mywebapp

mywebapp

Reference

Notify master Create pull request Clone URL

mywebapp / scripts / install_nginx.sh info Edit

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

Developer Tools > CodeCommit > Repositories > mywebapp

mywebapp

Reference

Notify master Create pull request Clone URL

mywebapp / scripts / start_nginx.sh info Edit

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

19.Creating Deployment Group

Developer Tools > CodeDeploy > Applications > mywebapp > Create deployment group

Create deployment group

Application

Application

mywebapp

Compute type

EC2/on-premises

Deployment group name

Enter a deployment group name

100 character limit

Service role

Enter a service role

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

20.Creating Role for Code Deployment

mycodedeployrole

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

Delete

Summary

Edit

Creation date
May 06, 2024, 23:21 (UTC+05:30)

ARN
arn:aws:iam::339712699389:role/mycodedeployrole

Last activity
-

Maximum session duration
1 hour

Permissions

Trust relationships

Tags

Access Advisor

Revoke sessions

Permissions policies (6)

Simulate

Remove

Add permissions

Search

Filter by Type
All types

< 1 >

<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	AmazonEC2FullAccess	AWS managed	1
<input type="checkbox"/>	AmazonEC2RoleforAWSCodeDeploy	AWS managed	1
<input type="checkbox"/>	AmazonEC2RoleforAWSCodeDeployLimited	AWS managed	1
<input type="checkbox"/>	AmazonS3FullAccess	AWS managed	2
<input type="checkbox"/>	AWSCodeDeployFullAccess	AWS managed	1
<input type="checkbox"/>	AWSCodeDeployRole	AWS managed	1

21.Creating Role for EC2 Code Deployment

ec2-codedeploy

Allows EC2 instances to call AWS services on your behalf.

Delete

Summary

Edit

Creation date
May 06, 2024, 23:34 (UTC+05:30)

ARN
arn:aws:iam::339712699389:role/ec2-codedeploy

Instance profile ARN
arn:aws:iam::339712699389:instance-profile/ec2-codedeploy

Last activity
-

Maximum session duration
1 hour

Permissions

Trust relationships

Tags

Access Advisor

Revoke sessions

Permissions policies (3)

Simulate

Remove

Add permissions

Search

Filter by Type
All types

< 1 >

<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	AmazonEC2FullAccess	AWS managed	2
<input type="checkbox"/>	AmazonS3FullAccess	AWS managed	3
<input type="checkbox"/>	AWSCodeDeployFullAccess	AWS managed	2

22.EC2 Instance Created for Deployment

Instances (1/1)

Connect

Instance state

Actions

Launch instances

Find instance by attribute or tag (case-sensitive)

All states

< 1 >

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elasti
<input checked="" type="checkbox"/>	mywebapp	i-04432dfc1fb2294d8	running	t2.micro	2/2 checks passed	View alarms	ap-south-1b	ec2-43-204-215-112.ap...	43.204.215.112	-

i-04432dfc1fb2294d8 (mywebapp)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

Instance summary

Instance ID
i-04432dfc1fb2294d8 (mywebapp)

Public IPv4 address
43.204.215.112

Private IPv4 addresses
172.31.11.153

IPv6 address
-

Instance state
Running

Public IPv4 DNS
ec2-43-204-215-112.ap-south-1.compute.amazonaws.com

23.Role added to the EC2

EC2

Instances

i-04432dfc1fb2294d8

Modify IAM role

Modify IAM role

Attach an IAM role to your instance.

Instance ID
i-04432dfc1fb2294d8 (mywebapp)

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.

ec2-codedeploy

Create new IAM role

Cancel

Update IAM role

24.EC2 Machine Launched and Creating Script file for Installing CodeDeploy agent in EC2

```
GNU nano 7.2                                install.sh *
#!/bin/bash
# This installs the CodeDeploy agent and its prerequisites on Ubuntu 22.04.
sudo apt-get update
sudo apt-get install ruby-full ruby-webrick wget -y
cd /tmp
wget https://aws-codedeploy-ap-south-1.s3.ap-south-1.amazonaws.com/releases/codedeploy-agent_1.3.2-1902_all.deb
mkdir codedeploy-agent_1.3.2-1902_ubuntu22
dpkg-deb -R codedeploy-agent_1.3.2-1902_all.deb codedeploy-agent_1.3.2-1902_ubuntu22
sed 's/Depends: */Depends: ruby3.0/' -i ./codedeploy-agent_1.3.2-1902_ubuntu22/DEBIAN/control
dpkg-deb -b codedeploy-agent_1.3.2-1902_ubuntu22/
sudo dpkg -i codedeploy-agent_1.3.2-1902_ubuntu22.deb
systemctl list-units --type=service | grep codedeploy
sudo service codedeploy-agent status
```

25.Installation Triggered with Script file

```
ubuntu@ip-172-31-4-161:~$ nano install.sh
ubuntu@ip-172-31-4-161:~$ sudo chmod +x install.sh
ubuntu@ip-172-31-4-161:~$ ls -ltr
total 4
-rwxrwxr-x 1 ubuntu ubuntu 697 May  7 08:51 install.sh
ubuntu@ip-172-31-4-161:~$ ./install.sh
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

26.CodeDeploy Agent installed in Running Up

```
dpkg-deb: building package 'codedeploy-agent' in 'codedeploy-agent_1.3.2-1902_ubuntu22.deb'.
Selecting previously unselected package codedeploy-agent.
(Reading database ... 111939 files and directories currently installed.)
Preparing to unpack codedeploy-agent_1.3.2-1902_ubuntu22.deb ...
Unpacking codedeploy-agent (1.3.2-1902) ...
Setting up codedeploy-agent (1.3.2-1902) ...
codedeploy-agent.service is not a native service, redirecting to systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable codedeploy-agent
codedeploy-agent.service                                loaded active running LSB: AWS CodeDeploy Host Agent
● codedeploy-agent.service - LSB: AWS CodeDeploy Host Agent
   Loaded: loaded (/etc/init.d/codedeploy-agent; generated)
   Active: active (running) since Tue 2024-05-07 08:53:00 UTC; 81ms ago
     Docs: man:systemd-sysv-generator(8)
   Process: 14579 ExecStart=/etc/init.d/codedeploy-agent start (code=exited, status=0/SUCCESS)
    Tasks: 2 (limit: 1121)
   Memory: 32.8M
      CPU: 545ms
   CGroup: /system.slice/codedeploy-agent.service
           └─14585 "codedeploy-agent: master 14585"
           └─14587 "codedeploy-agent: booting child"

May 07 08:53:00 ip-172-31-4-161 systemd[1]: Starting LSB: AWS CodeDeploy Host Agent...
May 07 08:53:00 ip-172-31-4-161 codedeploy-agent[14579]: Starting codedeploy-agent:
May 07 08:53:00 ip-172-31-4-161 systemd[1]: Started LSB: AWS CodeDeploy Host Agent.
lines 1-15/15 (END)ubuntu@ip-172-31-4-161:~$
ubuntu@ip-172-31-4-161:~$
```

27.Setting environment for Deploy with Created EC2

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.
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	
<input type="text" value="Name"/>	<input type="text" value="mywebapp"/>	<input type="button" value="Remove tag"/>

☐ On-premises Instances

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

Agent configuration with AWS Systems Manager [info](#)

**We recommend configuring your CodeDeploy Agent installation and updates with AWS Systems Manager.**
AWS Systems Manager provides more control over CodeDeploy Agent version updates and rollbacks than installing using other methods. [Learn more](#)

Install AWS CodeDeploy Agent

☒ Never

☐ Only once

☐ Now and schedule updates

28.Deployment Group Created

Success

Deployment group created

Developer Tools > CodeDeploy > Applications > mywebapp > mywebapp-dg

mywebapp-dg

EditDeleteCreate deployment

Deployment group details

Deployment group name	Application name	Compute platform
mywebapp-dg	mywebapp	EC2/on-premises
Deployment type	Service role ARN	Deployment configuration
In place	arn:aws:iam::339712699389:role/my-codedeployrole	CodeDeployDefault.AllAtOnce
Rollback enabled	Agent update scheduler	
False	Learn to schedule update in AWS Systems Manager	

29.Creating Deployment

Developer Tools > CodeDeploy > Applications > mywebapp > Create deployment

Create deployment

Deployment settings

Application

mywebapp

Deployment group

mywebapp-dg

Compute platform

EC2/on-premises

Deployment type

In place

createDeploymentGroup.formSection.managedHookRole.label

createDeployment.formSection.managedHookRole.description

createDeployment.formSection.managedHookRole.updateDeploymentGroup

Revision type

My application is stored in Amazon S3

My application is stored in GitHub

Revision location

Copy and paste the Amazon S3 bucket where your revision is stored

s3://buckets3dem/artifact.zip/artifact

s3://bucket-name/folder/object.[zip|tar|tgz]

Revision file type

.zip

30.S3 Bucket Artifact location copied for revision

Amazon S3 > Buckets > buckets3dem > artifact

artifact

Info

Copy S3 URICopy DownloadOpenObject actions

PropertiesPermissionsVersions

Object overview

Owner	S3 URI
bc441b369b3b7ad9eec9d852a8ff8731a44726957848169396e9e2cae865fa93	s3://buckets3dem/artifact.zip/artifact
AWS Region	Amazon Resource Name (ARN)
Asia Pacific (Mumbai) ap-south-1	arn:aws:s3:::buckets3dem/artifact.zip/artifact
Last modified	Entity tag (Etag)
May 6, 2024, 21:44:59 (UTC+05:30)	af1af8752d1cf8d42e91fea101700a74
Size	Object URL
21.0 KB	https://buckets3dem.s3.ap-south-1.amazonaws.com/artifact.zip/artifact
Type	
Key	
artifact.zip/artifact	

31.Deployment Created and Triggered

Success

Deployment created

Developer Tools > CodeDeploy > Deployments > d-8OKQK06U4

d-8OKQK06U4

Stop deployment

Stop and roll back deployment

Deployment status

Installing application on your instances

0 of 1 instances updated

In progress

0%

Deployment details

Application

Deployment ID

Status

mywebapp

d-8OKQK06U4

In progress

Deployment configuration

Deployment group

Initiated by

CodeDeployDefault.AllAtOnce

mywebapp-dg

User action

Deployment description

-

32.Deployment Done Successful

Developer Tools > CodeDeploy > Deployments > d-8OKQK06U4

d-8OKQK06U4

Copy deployment

Retry deployment

Deployment status

Installing application on your instances

1 of 1 instances updated

Succeeded

100%

Deployment details

Application

Deployment ID

Status

mywebapp

d-8OKQK06U4

Succeeded

Deployment configuration

Deployment group

Initiated by

CodeDeployDefault.AllAtOnce

mywebapp-dg

User action

Deployment description

-

Revision details

Revision location

Revision created

Revision description

s3://buckets3dem/artifact.zip/artifact

1 minute ago

Application revision registered by Deployment ID: d-8OKQK06U4

Deployment lifecycle events

< 1 >

Instance ID	Duration	Status	Most recent event	Events	Start time
i-04df4eecbc31638c5	21 seconds	Succeeded	ValidateService	View events	May 7, 2024 4:51

33.Our nginx Application is Running in EC2's Port 80

Not secure

3.111.37.236

Hello...!!! This is Demo for AWS Code Commit

34. Creating Pipeline settings

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

Choose pipeline settings

Step 1 of 5

Pipeline settings

Pipeline name

Enter the pipeline name. You cannot edit the pipeline name after it is created.

mywebapp-pipe

No more than 100 characters

Pipeline type

The pipeline type determines the pipeline structure and availability of parameters such as triggers. Pipeline type selection will impact features and pricing. [Which pipeline is right for me?](#)

V1

V2

Execution mode

Choose the execution mode for your pipeline. This determines how the pipeline is run.

Superseded

A more recent execution can overtake an older one. This is the default.

Queued (Pipeline type V2 required)

Executions are processed one by one in the order that they are queued.

Parallel (Pipeline type V2 required)

Executions don't wait for other runs to complete before starting or finishing.

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

AWSCodePipelineServiceRole-ap-south-1-mywebapp-pipe

Type your service role name

☒ Allow AWS CodePipeline to create a service role so it can be used with this new pipeline

35. Adding Source Stage

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

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.

AWS CodeCommit

Repository name

Choose a repository that you have already created where you have pushed your source code.

mywebapp

Branch name

Choose a branch of the repository

master

Change detection options

Choose a detection mode to automatically start your pipeline when a change occurs in the source code.

Amazon CloudWatch Events (recommended)

Use Amazon CloudWatch Events to automatically start my pipeline when a change occurs

AWS CodePipeline

Use AWS CodePipeline to check periodically for changes

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.

Cancel

Previous

Next

36. Adding Build Stage

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

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

Asia Pacific (Mumbai)

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.

mywebapp

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

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37.Adding Deploy Stage

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
Asia Pacific (Mumbai)

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.

mywebapp

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.

mywebapp-dg

☐ Configure automatic rollback on stage failure

Cancel Previous Skip deploy stage Next

38.Pipeline Tiggered automatically and Deployed

Developer Tools > CodePipeline > Pipelines > mywebapp-pipe

mywebapp-pipe

Notify Edit Stop execution Clone pipeline Release change

Pipeline type: V2 Execution mode: QUEUED

Source Succeeded

Pipeline execution ID: [eee3fcbc-96ff-41b5-898e-3c2173d05447](#)

Source

[AWS CodeCommit](#)

Succeeded - 1 minute ago

[31cb1e8f](#)

View details

[31cb1e8f](#) Source: Edited index.html

Disable transition

Build Succeeded

Pipeline execution ID: [eee3fcbc-96ff-41b5-898e-3c2173d05447](#)

Build

[AWS CodeBuild](#)

Succeeded - Just now

View details

[31cb1e8f](#) Source: Edited index.html

Disable transition

Start rollback

Deploy Succeeded

Start rollback

39.New Commits made to Application in Repository

mywebapp / index.html [Info](#)

The code editor uses the Tab key to control indentation. To navigate away from the code editor, use Escape plus Tab keys.

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <style>
5       body {
6         font-family: Arial, sans-serif;
7         background-color: #f2f2f2;
8         color: #333;
9         text-align: center;
10      }
11
12      h1 {
13        font-size: 36px;
14        margin-top: 50px;
15        color: #6130e8;
16      }
17
18      p {
19        font-size: 18px;
20        margin: 20px 0;
21      }
22    </style>
23  </head>
24  <body>
25    <h1>Hello...!!! This is Demo for AWS Code Commit</h1>
26    <h2>AWS Pipeline Code Build & Deploy Test Done</h2>
27    <p></p>
28  </body>
29 </html>
30
```

Commit changes to master

File: mywebapp/index.html

Author name

Email address

Commit message - *optional*

A default commit message will be used if you do not provide one.

Cancel

Commit changes


40. Pipeline Triggered automatically after commit made in Repository

[Developer Tools](#) > [CodePipeline](#) > [Pipelines](#) > mywebapp-pipe

mywebapp-pipe

[Notify](#) [Edit](#) [Stop execution](#) [Clone pipeline](#) [Release change](#)

Pipeline type: **V2** Execution mode: **QUEUED**


 **Source**

Succeeded

Pipeline execution ID: [b290b849-efd1-4fa8-8ec6-de73878a124c](#)

Source


[AWS CodeCommit](#)

 Succeeded - Just now

[b229f363](#)

[View details](#)

[b229f363](#) Source: Edited index.html


 **Build**

In progress

Pipeline execution ID: [b290b849-efd1-4fa8-8ec6-de73878a124c](#)

Build


[AWS CodeBuild](#)


 In progress - Just now


[View details](#)

[b229f363](#) Source: Edited index.html

[Disable transition](#)







41. Output of New Nginx Application changes deployed by Pipeline

← → ↻ ⚠ Not secure 3.111.37.236 ☆

Hello...!!! This is Demo for AWS Code Commit

AWS Pipeline Code Build & Deploy Test Done