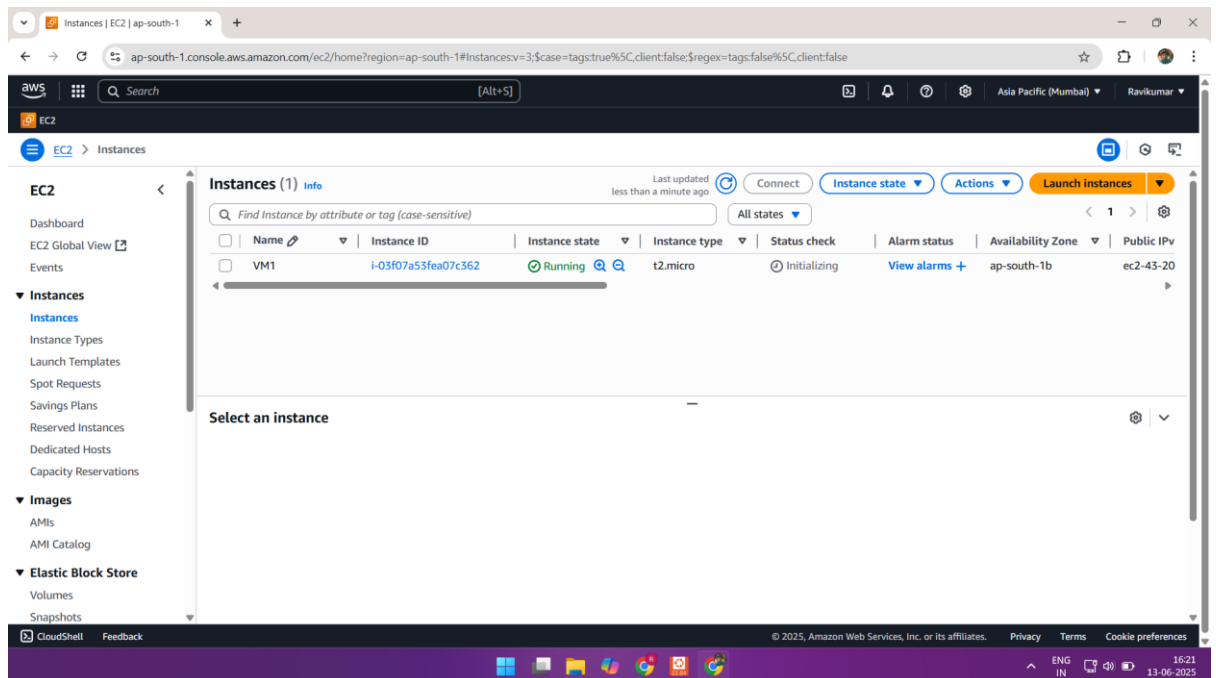


Deploy a simple web application using AWS code commit, code build and deploy & access via browser and automate via codepipeline.

1. First I uploaded a sample website static source code in github repository. Then in aws console I created VM. Launch EC2 Instance. In AWS console, Then in that instance I created one AWSCodedeploy Role permission. After updated IAM role, then I connect instance. Using command I installed Ruby.
2. Second I AWS console I searched code pipeline. In that pipeline Deploy -> Code Deploy -> Create a Application. After created I create deployment group in that application.
3. Third go to Pipeline -> Create pipeline -> inside that need to connect our github repository source code direction URL and then created.
4. After all the the pieline should be connected successfully, need to check is it working or not, in EC2 instance public ip address copied and pasted in that browser, the website is successfully running
5. If I anything change in github code. It should automatically changed in public ip address code.



Modify IAM role | EC2 | ap-southeast-1

Roles | IAM | Global

us-east-1.console.aws.amazon.com/iam/home#/roles

Search

[Alt+S]

Global

Ravikumar

EC2

IAM

Roles

Identity and Access Management (IAM)

Search IAM

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User groups

Users

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Identity providers

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Unused access

Analyzer settings

Roles (14)

Info

Delete

Create role

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.

Search

< 1 >

<input type="checkbox"/>	Role name	Trusted entities	Last activity
<input type="checkbox"/>	<a href="#">AmazonSSMRoleForInstancesQuickSetup</a>	AWS Service: ec2	-
<input type="checkbox"/>	<a href="#">AWS-QuickSetup-HostMgmtRole-ap-south-1-LA</a>	AWS Service: ssm	Yesterday
<input type="checkbox"/>	<a href="#">AWS-QuickSetup-LocalAdministrationRole</a>	AWS Service: cloudformation	Yesterday
<input type="checkbox"/>	<a href="#">AWS-QuickSetup-LocalExecutionRole</a>	Account: 251221984734	Yesterday
<input type="checkbox"/>	<a href="#">aws-s3-access-ravi</a>	AWS Service: cloudtrail	6 days ago
<input type="checkbox"/>	<a href="#">AWSServiceRoleForAmazonSSM</a>	AWS Service: ssm (Service-Linked Role)	49 minutes ago
<input type="checkbox"/>	<a href="#">AWSServiceRoleForElasticLoadBalancing</a>	AWS Service: elasticloadbalancing (Service-Linked Role)	6 days ago
<input type="checkbox"/>	<a href="#">AWSServiceRoleForGlobalAccelerator</a>	AWS Service: globalaccelerator (Service-Linked Role)	-
<input type="checkbox"/>	<a href="#">AWSServiceRoleForSSMQuickSetup</a>	AWS Service: ssm-quicksetup (Service-Linked Role)	4 hours ago
<input type="checkbox"/>	<a href="#">AWSServiceRoleForSupport</a>	AWS Service: support (Service-Linked Role)	-
<input type="checkbox"/>	<a href="#">AWSServiceRoleForTrustedAdvisor</a>	AWS Service: trustedadvisor (Service-Linked Role)	-

Modify IAM role | EC2 | ap-southeast-1

Create role | IAM | Global

us-east-1.console.aws.amazon.com/iam/home#/roles/create

EC2

IAM

Roles

Create role

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

Choose a service or use case

Cancel

Next

CloudShell

Feedback

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13-06-2025

us-east-1.console.aws.amazon.com/iam/home#/roles/create?trustedEntityType=AWS\_SERVICE&selectedService=EC2&selectedUseCase=EC2

EC2

IAM > Roles > Create role

Step 1  
Select trusted entity

Step 2  
**Add permissions**

Step 3  
Name, review, and create

**Add permissions** Info

Permissions policies (1/1059) Info

Choose one or more policies to attach to your new role.

Filter by Type

AmazonEC2Rol

All types

5 matches

<input checked="" type="checkbox"/>	Policy name	Type	Description
<input checked="" type="checkbox"/>	<a href="#">AmazonEC2RoleforAWSCodeDeploy</a>	AWS managed	Provides EC2 access to S3 bucket to do...
<input type="checkbox"/>	<a href="#">AmazonEC2RoleforAWSCodeDeployLimited</a>	AWS managed	Provides EC2 limited access to S3 buck...
<input type="checkbox"/>	<a href="#">AmazonEC2RoleforDataPipelineRole</a>	AWS managed	Default policy for the Amazon EC2 Rol...
<input type="checkbox"/>	<a href="#">AmazonEC2RoleforSSM</a>	AWS managed	This policy will soon be deprecated. PL...
<input type="checkbox"/>	<a href="#">AmazonEC2RolePolicyForLaunchWizard</a>	AWS managed	Managed policy for the Amazon Launc...

▶ Set permissions boundary - optional

Cancel

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Next

us-east-1.console.aws.amazon.com/iam/home#/roles/create?trustedEntityType=AWS\_SERVICE&selectedService=EC2&selectedUseCase=EC2&policies=arn%3Aaws%3Aiam%3A%3A%3Aaws%3Apoli...

EC2

IAM > Roles > Create role

14 }  
15 }  
16 }

**Step 2: Add permissions** Edit

Permissions policy summary

Policy name	Type	Attached as
<a href="#">AmazonEC2RoleforAWSCodeDeploy</a>	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

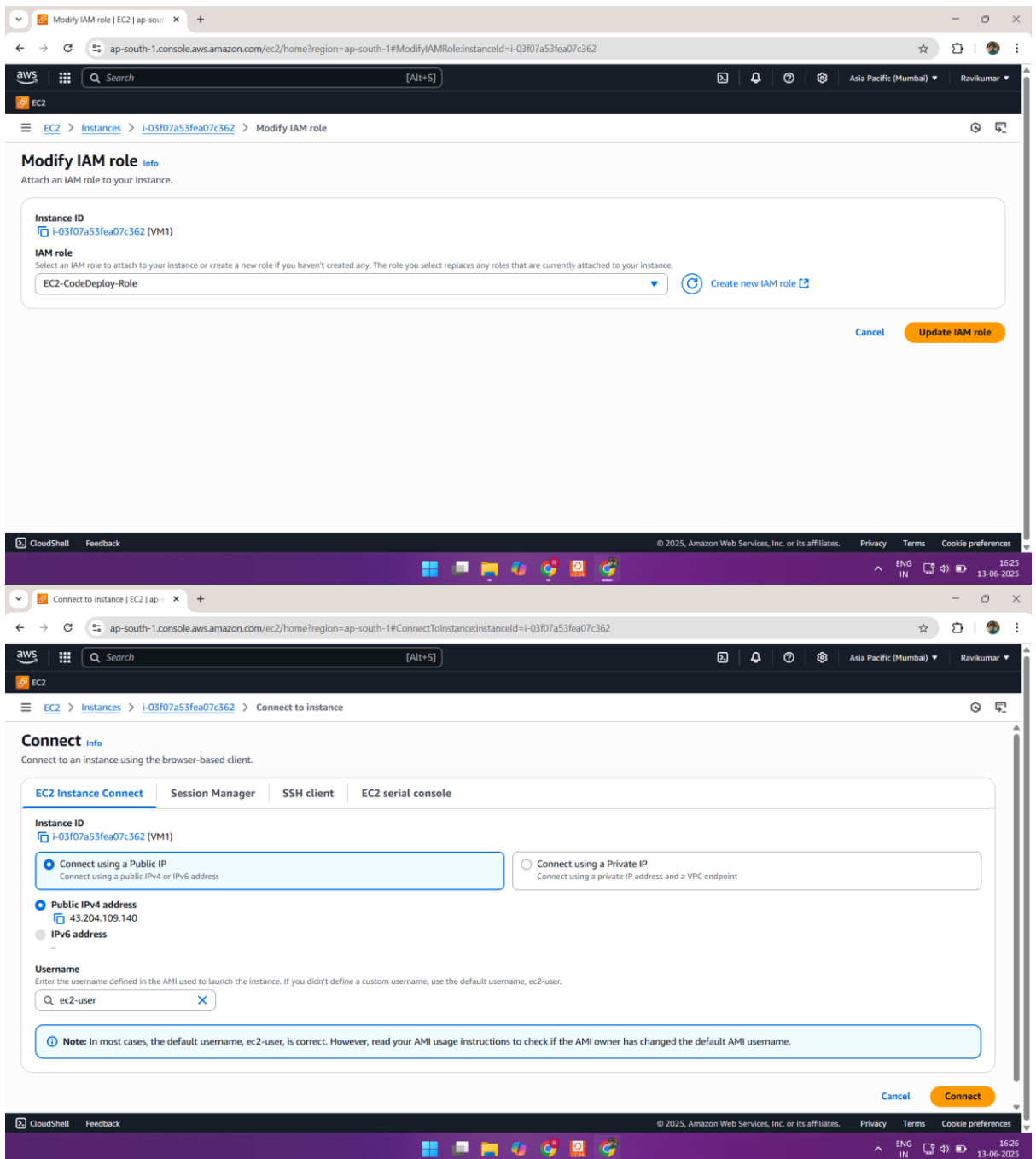
Previous

Create role

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```
Running transaction
Preparing :
Running scriptlet: codedeploy-agent-1.7.1-110.noarch 1/1
pre hook : 1
Checking if there is already a process named codedeploy-agent running. 1/1
Installing : codedeploy-agent-1.7.1-110.noarch 1/1
Running scriptlet: codedeploy-agent-1.7.1-110.noarch 1/1
post hook : 1
Check if there is a codedeployagent config file.
Start codedeploy-agent in post hook if this is a first install.
Verifying : codedeploy-agent-1.7.1-110.noarch 1/1
Installed:
codedeploy-agent-1.7.1-110.noarch
Complete!
i, [2025-06-13T11:01:15.013098 #26656] INFO -- : Update check complete.
i, [2025-06-13T11:01:15.013276 #26656] INFO -- : Stopping updater.
[ec2-user@ip-172-31-3-146 ~]$ sudo service codedeploy-agent start
Starting codedeploy-agent:[ec2
[ec2-user@ip-172-31-3-146 ~]$
[ec2-user@ip-172-31-3-146 ~]$ sudo service codedeploy-agent status
The AWS CodeDeploy agent is running as PID 26739
[ec2-user@ip-172-31-3-146 ~]$
```

i-03f07a53fea07c362 (VM1)  
PublicIPs: 43.204.109.140 PrivateIPs: 172.31.3.146

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Instances | EC2 | ap-south-1 | EC2 Instance Connect | ap-south-1

Create application | CodeDeploy

ap-south-1.console.aws.amazon.com/codesuite/codedeploy/application/new?region=ap-south-1

ServicesSearch[Alt+S]

Asia Pacific (Mumbai)Ravikumar

Developer Tools > CodeDeploy > Applications > Create application

Create application

Application configuration

Application name

Enter an application name

EC2-Deploy1

100 character limit

Compute platform

Choose a compute platform

EC2/On-premises

Tags

Add tag

Cancel

Create application

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us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles

Roles

Identity and Access Management (IAM)

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Role AWSCodeDeployRole created.

Roles (16)

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.

Search

Role name	Trusted entities	Last activity
<a href="#">AmazonSSMRoleForInstancesQuickSetup</a>	AWS Service: ec2	-
<a href="#">AWS-QuickSetup-HostMgmtRole-ap-south-1-LA</a>	AWS Service: ssm	Yesterday
<a href="#">AWS-QuickSetup-LocalAdministrationRole</a>	AWS Service: cloudformation	Yesterday
<a href="#">AWS-QuickSetup-LocalExecutionRole</a>	Account: 251221984734	Yesterday
<a href="#">aws-s3-access-ravi</a>	AWS Service: cloudtrail	6 days ago
<a href="#">AWSCodeDeployRole</a>	AWS Service: codedeploy	-
<a href="#">AWSServiceRoleForAmazonSSM</a>	AWS Service: ssm (Service-Linked Role)	1 hour ago
<a href="#">AWSServiceRoleForElasticLoadBalancing</a>	AWS Service: elasticloadbalancing	6 days ago
<a href="#">AWSServiceRoleForGlobalAccelerator</a>	AWS Service: globalaccelerator	-
<a href="#">AWSServiceRoleForSSMQuickSetup</a>	AWS Service: ssm (Service-Linked Role)	4 hours ago

ap-south-1.console.aws.amazon.com/codesuite/codedeploy/applications/EC2-Deploy1/deployment-groups/new?region=ap-south-1

14 Days

Deployment settings

Deployment configuration

CodeDeployDefault.ALIA1Once or Create deployment configuration

Load balancer

Enable load balancing

Advanced - optional

Cancel Create deployment group

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