HOW TO DEPLOY WEB APP FROM S3 BUCKET TO EC2 INSTANCE ON AWS USING CODEPIPELINE

-surya

Step 1: Create an EC2 instance for your application [Target]

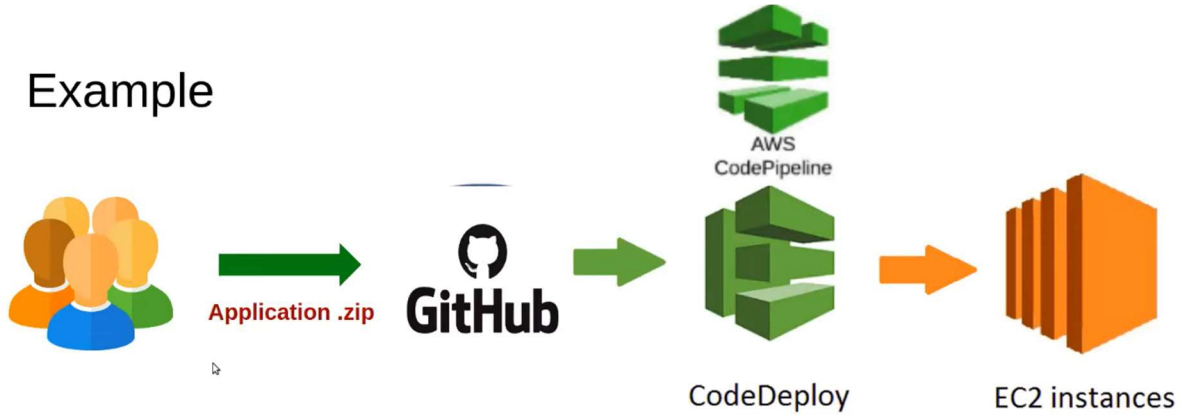
Step 2: Create IAM Roles - CodeDeploy & EC2CodeDeploy

Step 3: Create Github repo treated as [Source]

Step 4: Create an application in CodeDeploy

Step 5: Create your first pipeline in CodePipeline

[Prerequisite :- Must have github account with application code treated as a [Source]



Create an EC2 instance for your application [Target]

Run Commands

#!/bin/bash

sudo yum -y update

sudo yum -y install ruby

sudo yum -y install wget

cd /home/ec2-user

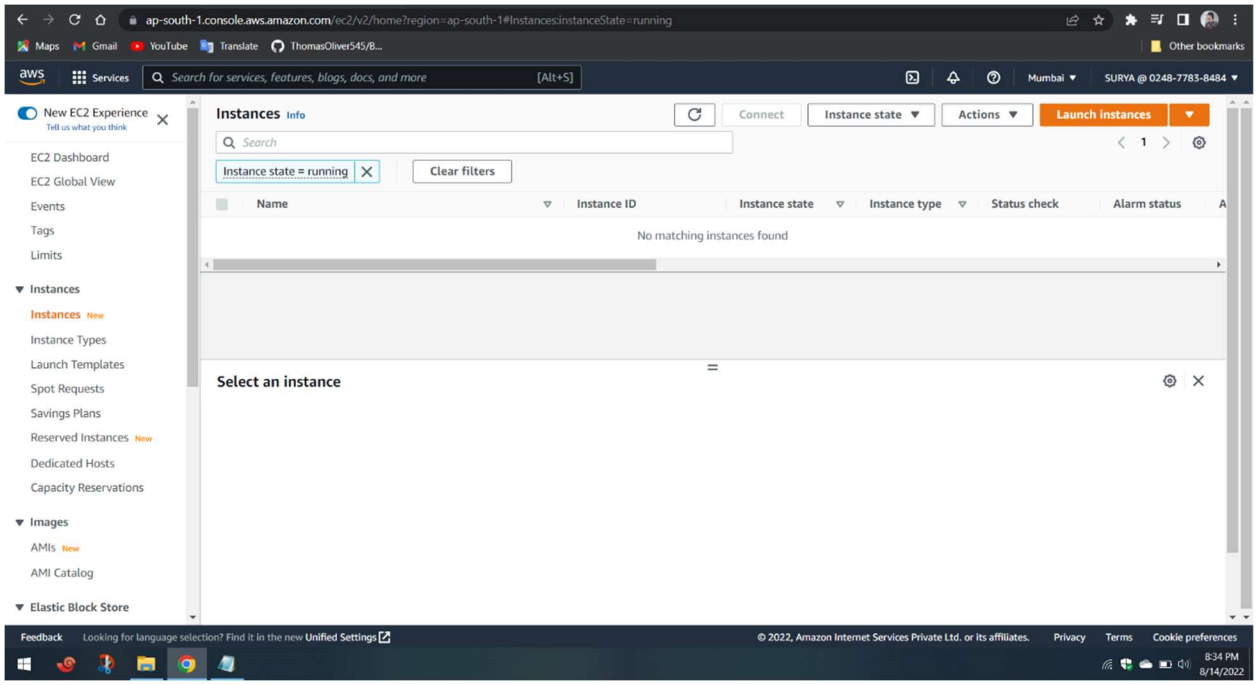
wget https://aws-codedeploy-ap-south-1.s3.ap-south-1.amazonaws.com/latest/install

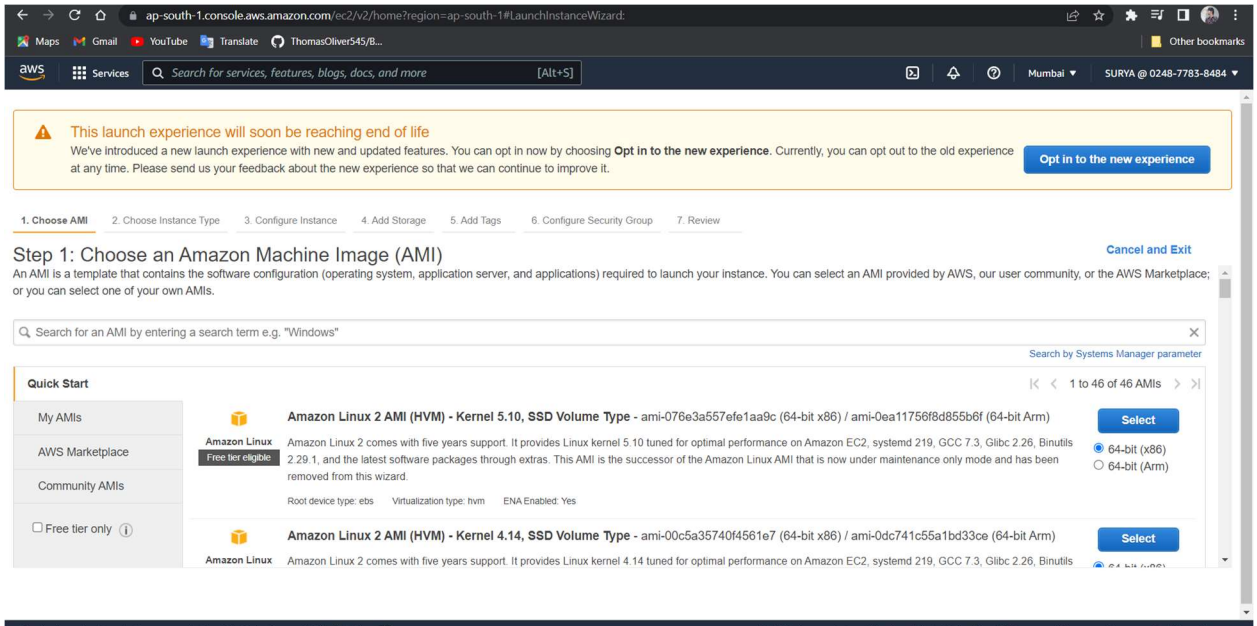
sudo chmod +x ./install

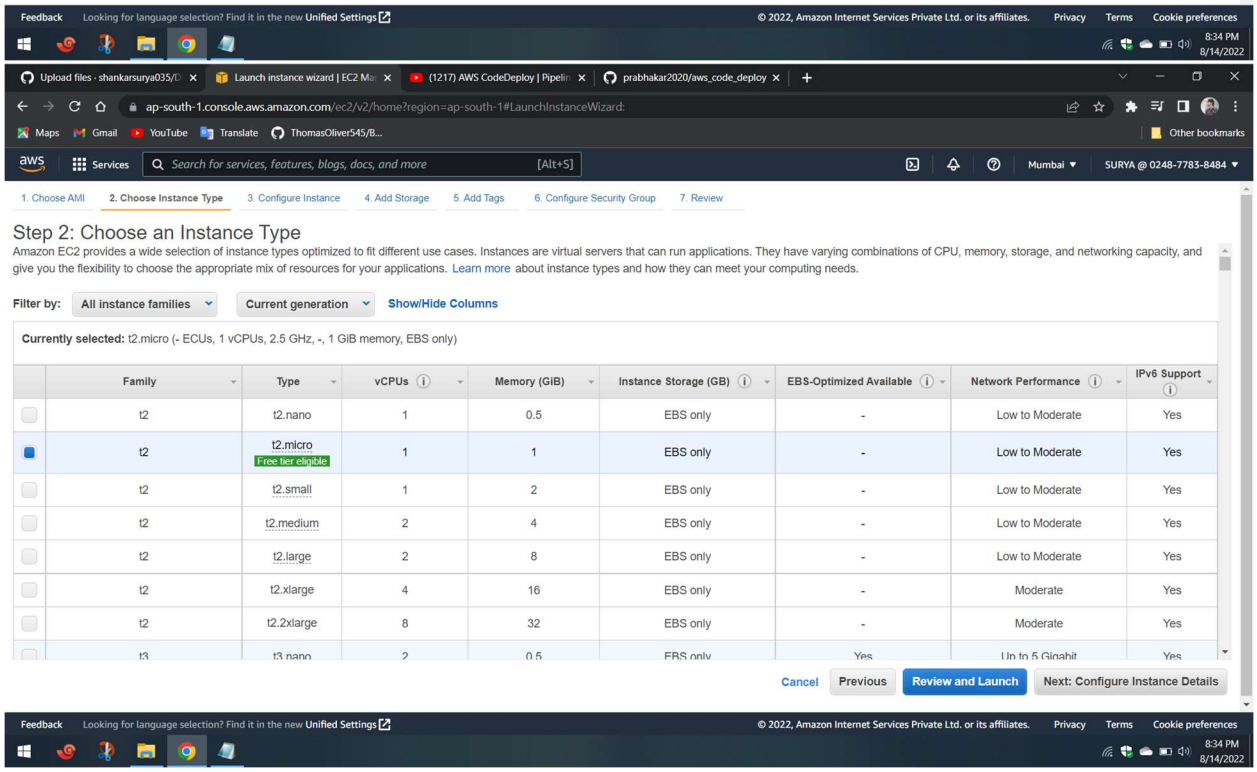
sudo ./install auto

sudo yum install -y python-pip

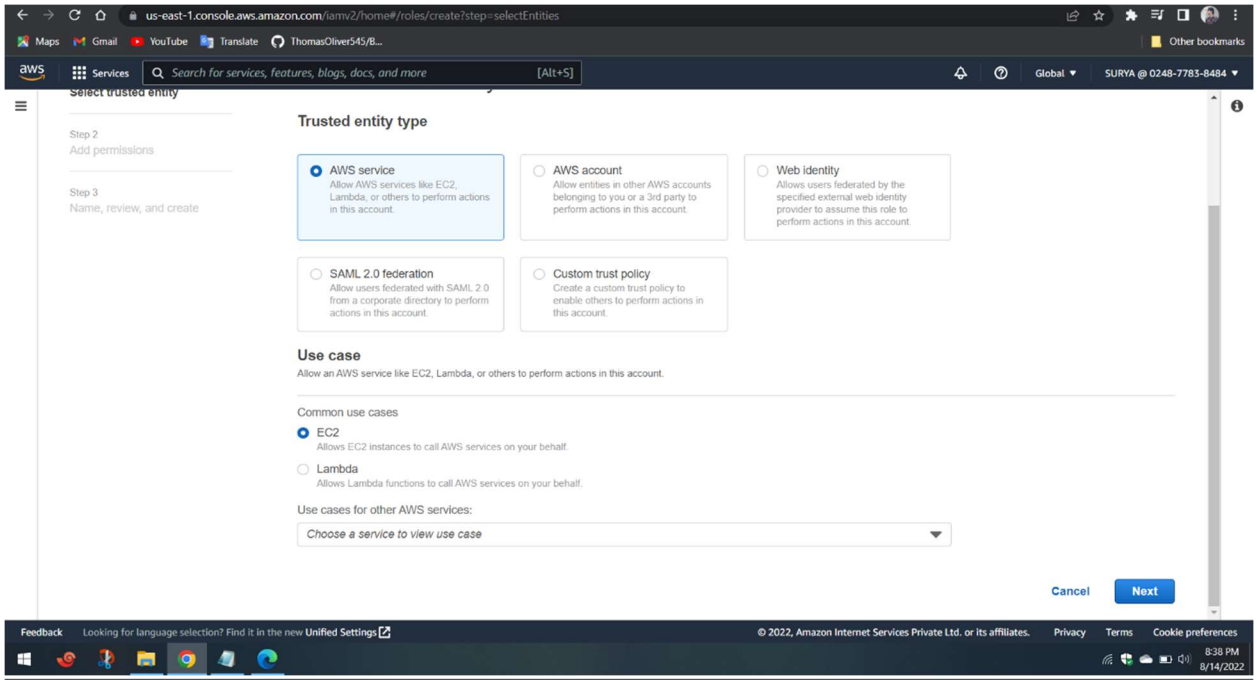
sudo pip install awscli







Create IAM Roles - CodeDeploy & EC2CodeDeploy


us-east-1.console.aws.amazon.com/iamv2/home#/roles/create?step=selectEntities
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Step 2
Add permissions
Step 3
Name, review, and create
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.
Common use cases
EC2
Allows EC2 instances to call AWS services on your behalf.
Lambda
Allows Lambda functions to call AWS services on your behalf.
Use cases for other AWS services:
Choose a service to view use case
Cancel
Next
Feedback
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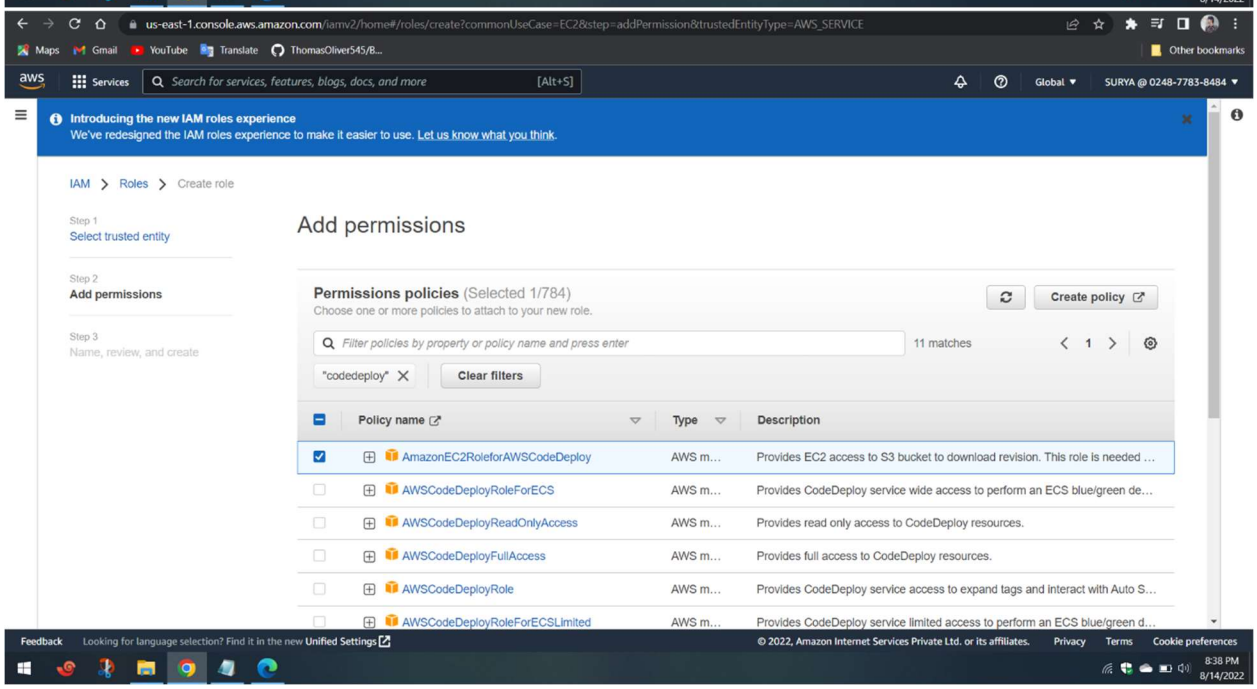
us-east-1.console.aws.amazon.com/iamv2/home#/roles/create?commonUseCase=EC2&step=addPermission&trustedEntityType=AWS_SERVICE
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Introducing the new IAM roles experience
We've redesigned the IAM roles experience to make it easier to use. Let us know what you think.
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Add permissions
Permissions policies (Selected 1/784)
Choose one or more policies to attach to your new role.
Create policy
Filter policies by property or policy name and press enter
11 matches
"codedeploy"
Clear filters
Policy name
Type
Description
AmazonEC2RoleforAWSCodeDeploy
AWS m...
Provides EC2 access to S3 bucket to download revision. This role is needed ...
AWSCodeDeployRoleForECS
AWS m...
Provides CodeDeploy service wide access to perform an ECS blue/green de...
AWSCodeDeployReadOnlyAccess
AWS m...
Provides read only access to CodeDeploy resources.
AWSCodeDeployFullAccess
AWS m...
Provides full access to CodeDeploy resources.
AWSCodeDeployRole
AWS m...
Provides CodeDeploy service access to expand tags and interact with Auto S...
AWSCodeDeployRoleForECSLimited
AWS m...
Provides CodeDeploy service limited access to perform an ECS blue/green d...
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us-east-1.console.aws.amazon.com/iamv2/home#/roles/create?commonUseCase=EC2&step=review&trustedEntityType=AWS_SERVICE

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Name, review, and create

Role details

Role name
Enter a meaningful name to identify this role.

ec2nowrole

Maximum 64 characters. Use alphanumeric and '+=, @-_' characters.

Description
Add a short explanation for this role.

Allows EC2 instances to call AWS services on your behalf.

Maximum 1000 characters. Use alphanumeric and '+=, @-_' characters.

Step 1: Select trusted entities

Edit

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": [
                "sts:AssumeRole"
            ],
            "Principal": {
                "Service": [
```

us-east-1.console.aws.amazon.com/iamv2/home#/roles/create?step=selectEntities

Step 2
Add permissions

Step 3
Name, review, and create

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.

code

- CodeBuild
- CodeDeploy
- CodeGuru
- CodeStar Notifications
- Elastic Transcoder
- Honeycode

Choose a service to view use case

Cancel Next

us-east-1.console.aws.amazon.com/iamv2/home#/roles/create?step=selectEntities

Name, review, and create

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.

Common use cases

- EC2
  Allows EC2 instances to call AWS services on your behalf.
- Lambda
  Allows Lambda functions to call AWS services on your behalf.

Use cases for other AWS services:

CodeDeploy

- CodeDeploy
  Allows CodeDeploy to call AWS services such as Auto Scaling on your behalf.
- CodeDeploy for Lambda
  Allows CodeDeploy to route traffic to a new version of an AWS Lambda function version on your behalf.
- CodeDeploy - ECS
  Allows CodeDeploy to read S3 objects, invoke Lambda functions, publish to SNS topics, and update ECS services on your behalf.

Cancel Next

us-east-1.console.aws.amazon.com/iamv2/home#/roles/create?selectedService=CodeDeploy&selectedUseCase=CodeDeploy&step=addPermission&trustedEntityType=AWS_SERVI...

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IAM > Roles > Create role

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Add permissions

Permissions policies (1)

The type of role that you selected requires the following policy.

Policy name	Type	Attached entities
AWSCodeDeployRole	AWS m...	1

Set permissions boundary - *optional*

Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting, but you can use it to delegate permission management to others.

Cancel Previous Next

us-east-1.console.aws.amazon.com/iamv2/home#/roles/create?selectedService=CodeDeploy&selectedUseCase=CodeDeploy&step=review&trustedEntityType=AWS_SERVICE

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Introducing the new IAM roles experience
We've redesigned the IAM roles experience to make it easier to use. Let us know what you think.

IAM > Roles > Create role

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Name, review, and create

Role details

Role name
Enter a meaningful name to identify this role.

codenowdeploy

Role name is required
Maximum 64 characters. Use alphanumeric 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 alphanumeric and '+=, @-_' characters.

Step 1: Select trusted entities

Edit

```
1 - {
```

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Identity and Access Management (IAM)

- Dashboard
- Access management
  - User groups
  - Users
  - Roles
  - Policies
  - Identity providers
  - Account settings
- Access reports
  - Access analyzer
    - Archive rules
    - Analyzers
    - Settings
  - Credential report
  - Organization activity
  - Service control policies (SCPs)

Related consoles

August 14, 2022, 20:41 (UTC+05:30)

arn:aws:iam::024877838484:role/codenowdeploy

Last activity
None

Maximum session duration
1 hour

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

Permissions policies (1)

You can attach up to 10 managed policies.

Simulate | Remove | Add permissions
- Attach policies
- Create inline policy

Filter policies by property or policy name and press enter

Policy name	Type	Description
AWSCodeDeployRole	AWS managed	Provides CodeDeploy service access t...

Permissions boundary - (not set)

Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting but can be used to delegate permission management to others.

Set permissions boundary

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  - Credential report
  - Organization activity
  - Service control policies (SCPs)

Related consoles

Creation date
August 14, 2022, 20:41 (UTC+05:30)

ARN
arn:aws:iam::024877838484:role/codenowdeploy

Last activity
None

Maximum session duration
1 hour

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

Permissions policies (2)
You can attach up to 10 managed policies.

Simulate | Remove | Add permissions

Filter policies by property or policy name and press enter

Policy name	Type	Description
AmazonS3FullAccess	AWS managed	Provides full access to all buckets via t...
AWSCodeDeployRole	AWS managed	Provides CodeDeploy service access t...

Permissions boundary - (not set)
Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting but can be used to delegate permission management to others.

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us-east-1.console.aws.amazon.com/iamv2/home#/roles/details/codenowdeploy?section=permissions

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Identity and Access Management (IAM)

- Dashboard
- Access management
  - User groups
  - Users
  - Roles
  - Policies
  - Identity providers
  - Account settings
- Access reports
  - Access analyzer
    - Archive rules
    - Analyzers
    - Settings
  - Credential report
  - Organization activity
  - Service control policies (SCPs)

Related consoles

Last activity
None

Maximum session duration
1 hour

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

Permissions policies (3)
You can attach up to 10 managed policies.

Simulate | Remove | Add permissions

Filter policies by property or policy name and press enter

Policy name	Type	Description
AmazonEC2RoleforAWSCodeDeploy	AWS managed	Provides EC2 access to S3 bucket to d...
AmazonS3FullAccess	AWS managed	Provides full access to all buckets via t...
AWSCodeDeployRole	AWS managed	Provides CodeDeploy service access t...

Permissions boundary - (not set)
Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting but can be used to delegate permission management to others.

Set permissions boundary

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ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:

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1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances	1 — Launch into Auto Scaling Group
Purchasing option	☐ Request Spot instances
Network	vpc-0dcd0bbd9a3447570 | Defalut (default) — Create new VPC
Subnet	subnet-085a2c6be60faf8ec | Deflaut | Default in ap-s — Create new subnet 4091 IP Addresses available
Auto-assign Public IP	Use subnet setting (Enable)
Hostname type	Use subnet setting (IP name)
DNS Hostname	☐ Enable IP name IPv4 (A record) DNS requests ☑ Enable resource-based IPv4 (A record) DNS requests ☐ Enable resource-based IPv6 (AAAA record) DNS requests
Placement group	☐ Add instance to placement group
Capacity Reservation	Open
Domain join directory	No directory — Create new directory

Cancel | Previous | Review and Launch | Next: Add Storage

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1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 7. Review

Step 3: Configure Instance Details

because it does not have an IPv6 CIDR.

Add Device

Advanced Details

Enclave	☐ Enable
Metadata accessible	Enabled
Metadata version	V1 and V2 (token optional)
Metadata token response hop limit	1
Allow tags in metadata	Disabled
User data	◉ As text ○ As file ☐ Input is already base64 encoded

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

Cancel | Previous | Review and Launch | Next: Add Storage

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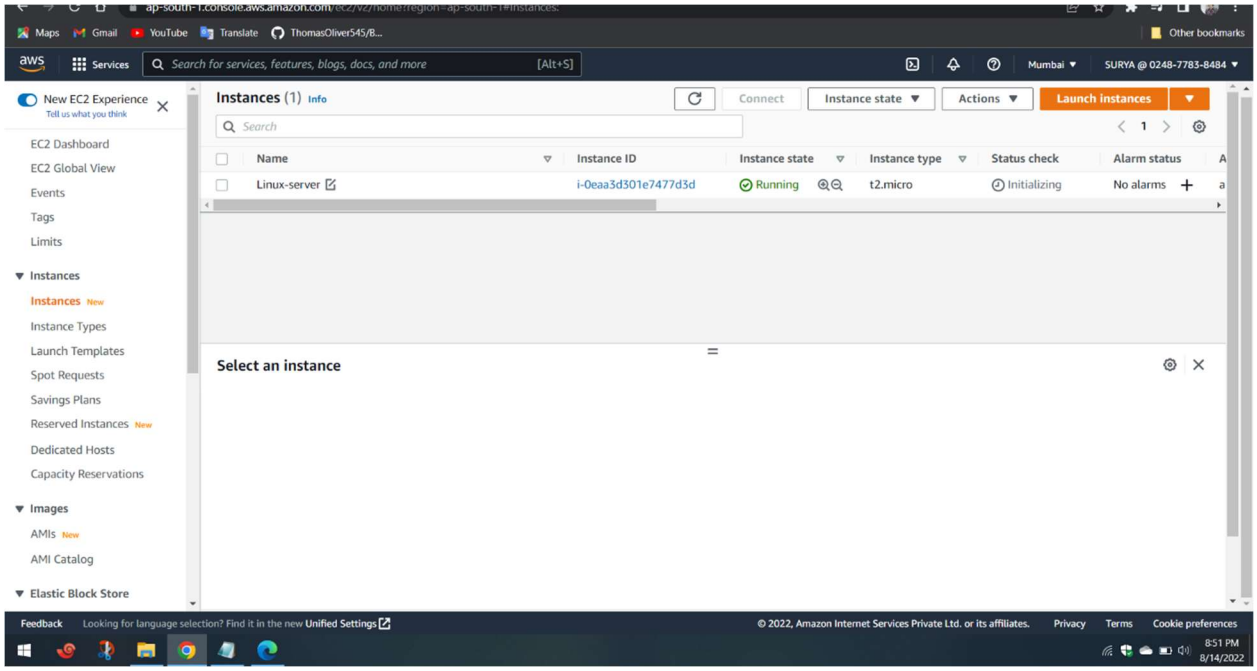
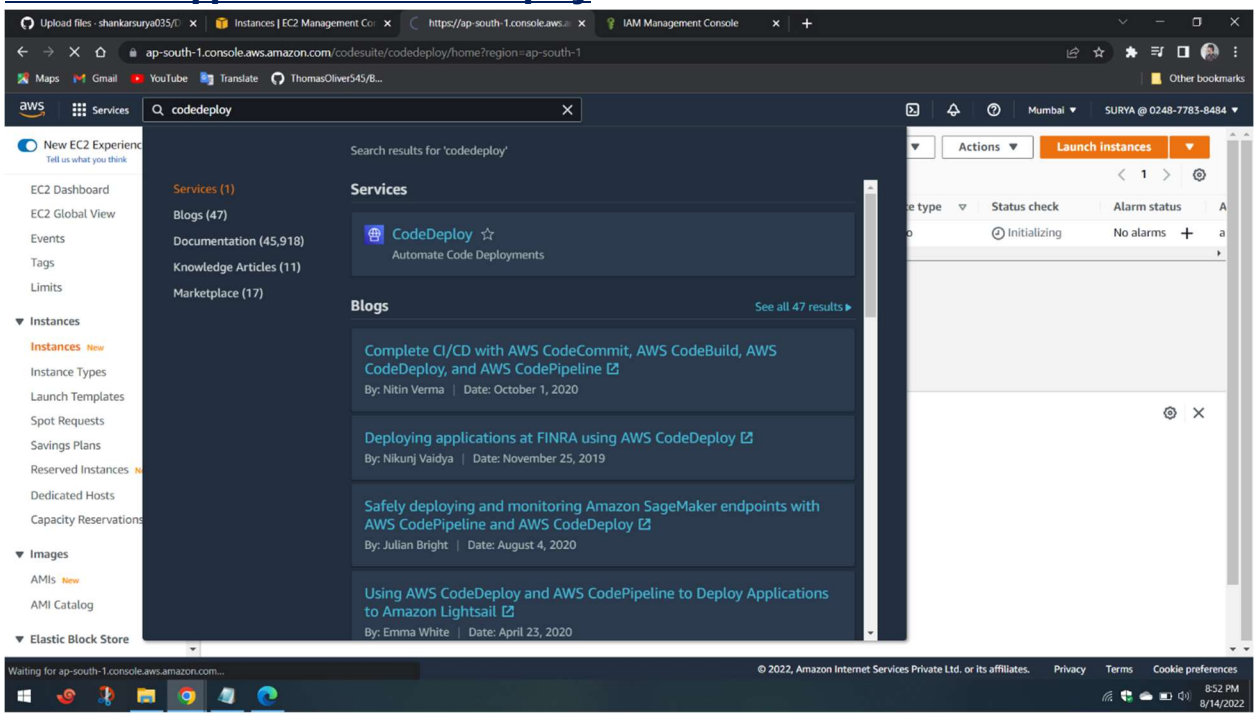


Create an application in CodeDeploy



Developer Tools
CodeDeploy

- Source • CodeCommit
- Artifacts • CodeArtifact
- Build • CodeBuild
- Deploy • CodeDeploy
  - Getting started
  - Deployments
  - Applications
  - Deployment configurations
  - On-premises instances
- Pipeline • CodePipeline
- Settings

Go to resource
Feedback

Developer Tools > CodeDeploy > Applications

Applications

Notify | View details | Deploy application | **Create application**

Application name	Compute platform	Created

No results
There are no results to display.

Developer Tools > CodeDeploy > Applications > Create application

Create application

Application configuration

Application name
Enter an application name
CodeDepAPP
100 character limit

Compute platform
Choose a compute platform
EC2/On-premises

Cancel | **Create application**

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ap-south-1.console.aws.amazon.com/codesuite/codedeploy/applications/CodeDepAPP?region=ap-south-1

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    - Settings
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- Pipeline • CodePipeline
- Settings

Go to resource
Feedback

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 > CodeDepAPP

CodeDepAPP

Notify | Delete application

Application details

Name	Compute platform
CodeDepAPP	EC2/On-premises

Deployments | Deployment groups | Revisions

Deployment groups

View details | Edit | Create deployment group

Name	Status	Last attempted deployment	Last successful deployment	Trigger count

No deployment groups

ap-south-1.console.aws.amazon.com/codesuite/codedeploy/applications/CodeDepAPP/.../ne...

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

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Application
CodeDepAPP
Compute type
EC2/On-premises

Deployment group name

Enter a deployment group name

Deploygrp

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.

arn:aws:iam::024877838484:role/codenowdeploy

Deployment type

Choose how to deploy your application

- In-place
  Updates the instances in the deployment group with the
- Blue/green
  Replaces the instances in the deployment group with new

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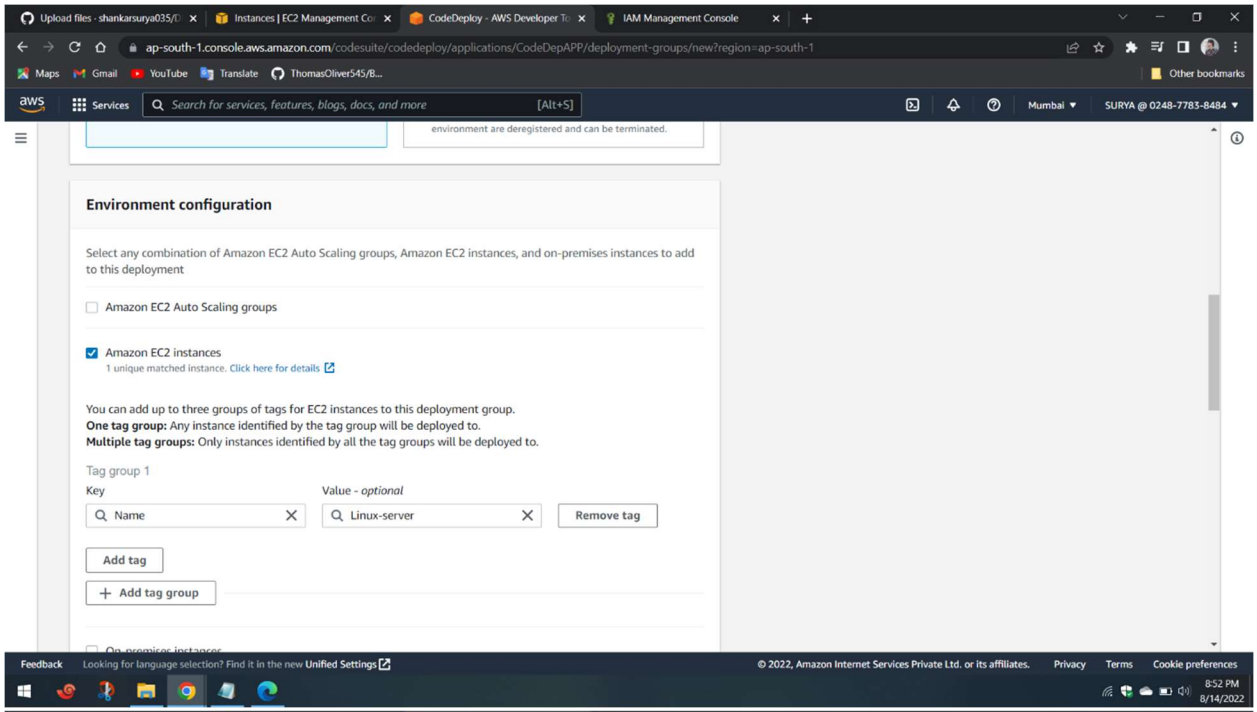
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Instances | EC2 Management Co
CodeDeploy - AWS Developer To
IAM Management Console
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environment are deregistered and can be terminated.
Environment configuration
Select any combination of Amazon EC2 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.
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
Name
Linux-server
Remove tag
Add tag
Add tag group
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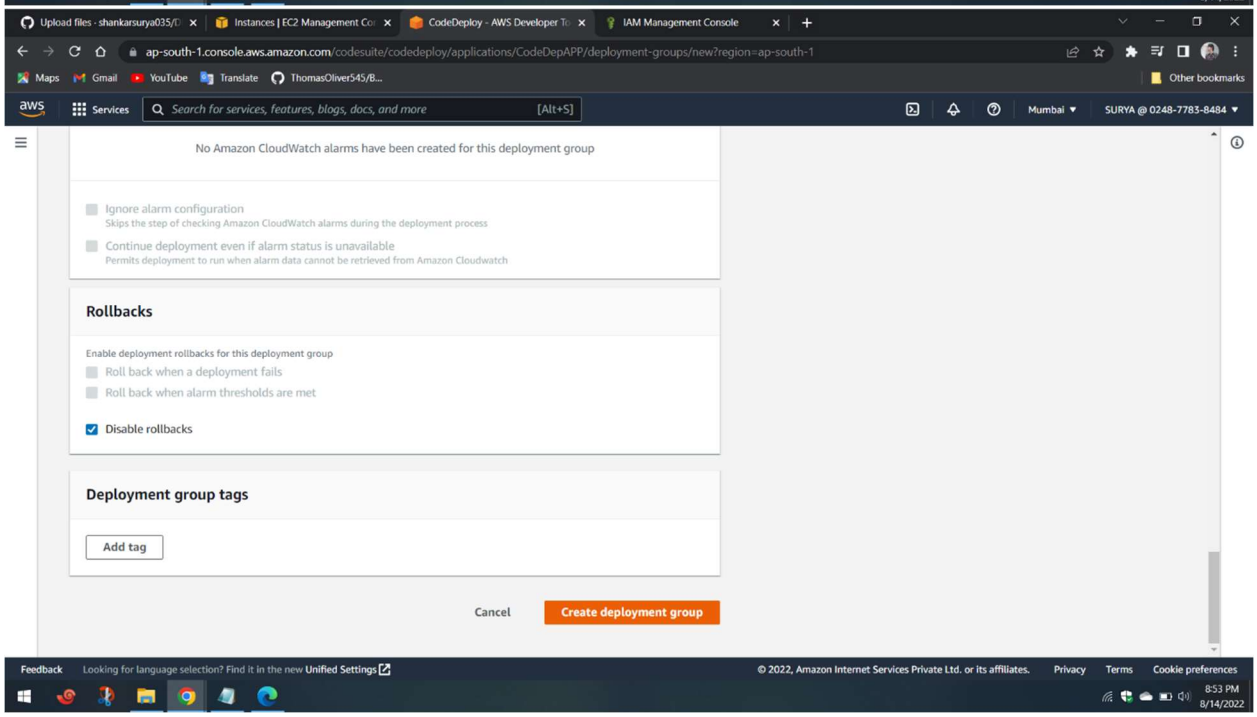
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Instances | EC2 Management Co
CodeDeploy - AWS Developer To
IAM Management Console
ap-south-1.console.aws.amazon.com/codesuite/codedeploy/applications/CodeDepAPP/deployment-groups/new?region=ap-south-1
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No Amazon CloudWatch alarms have been created for this deployment group
Ignore alarm configuration
Skips the step of checking Amazon CloudWatch alarms during the deployment process
Continue deployment even if alarm status is unavailable
Permits deployment to run when alarm data cannot be retrieved from Amazon Cloudwatch
Rollbacks
Enable deployment rollbacks for this deployment group
Roll back when a deployment fails
Roll back when alarm thresholds are met
Disable rollbacks
Deployment group tags
Add tag
Cancel
Create deployment group
Feedback
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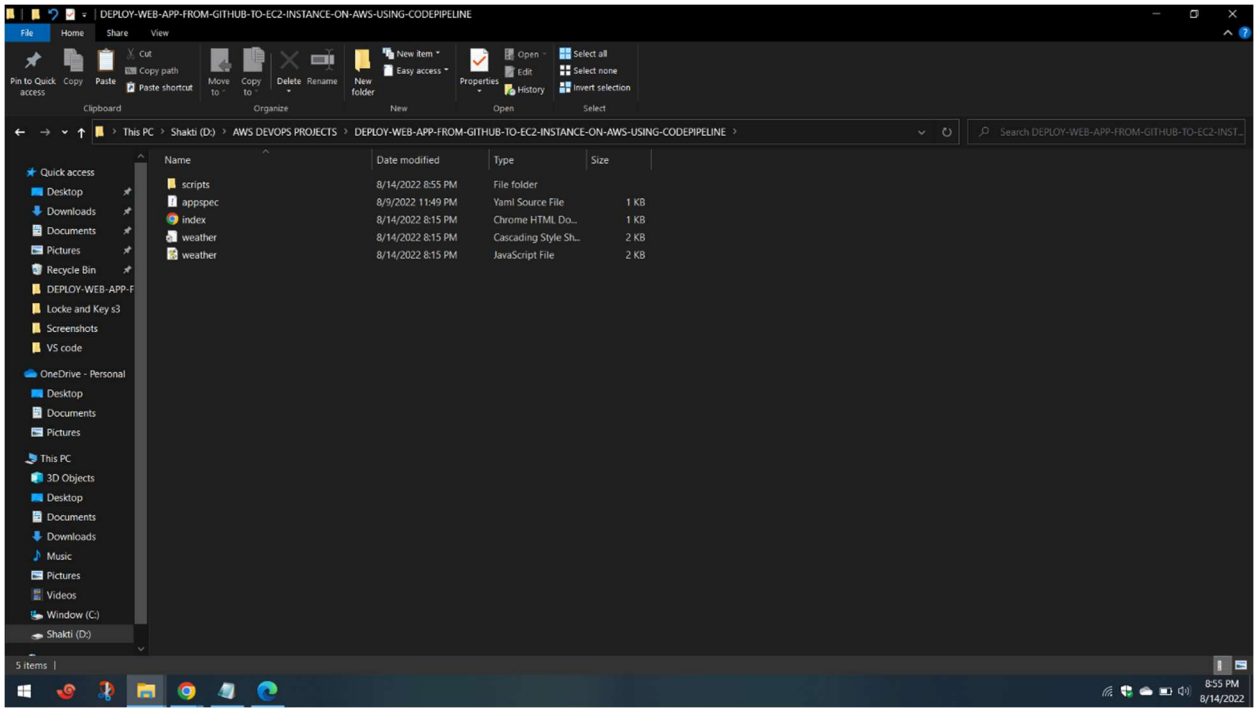
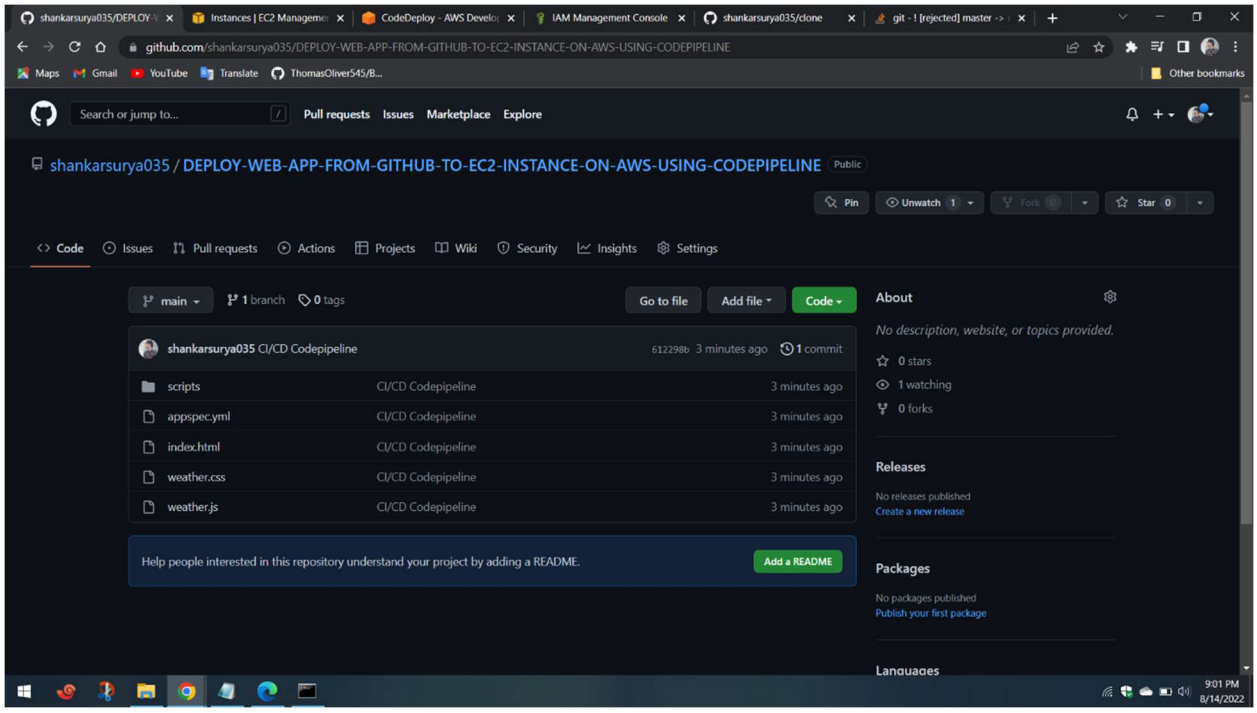
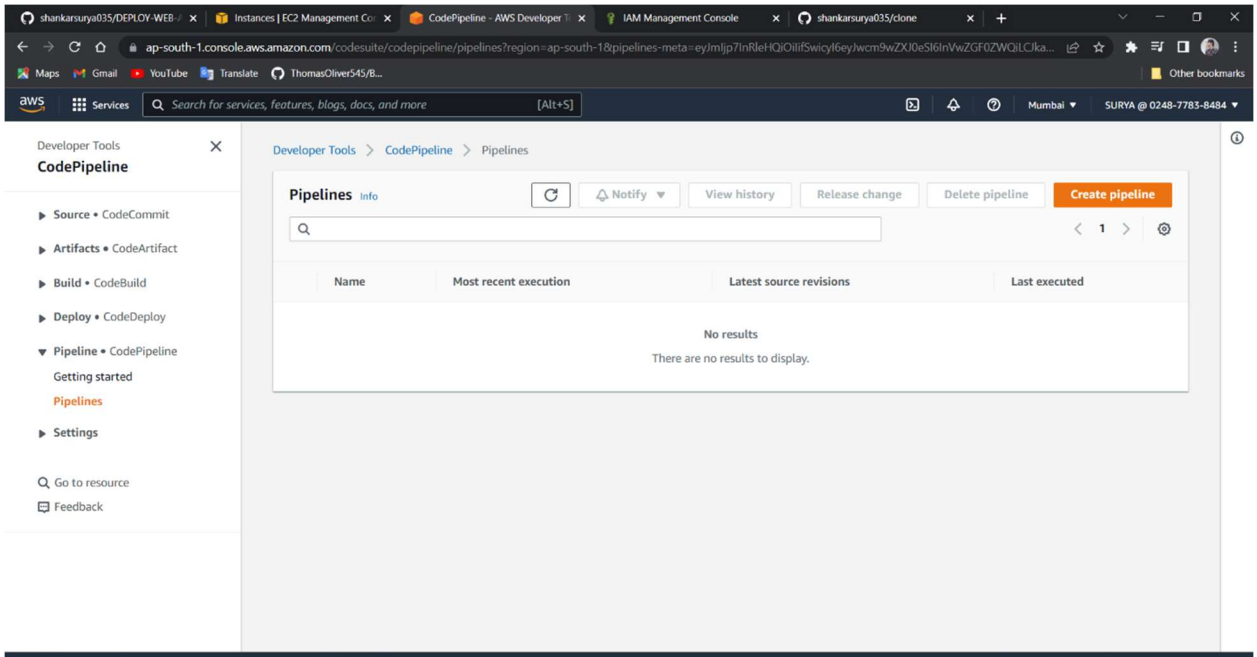
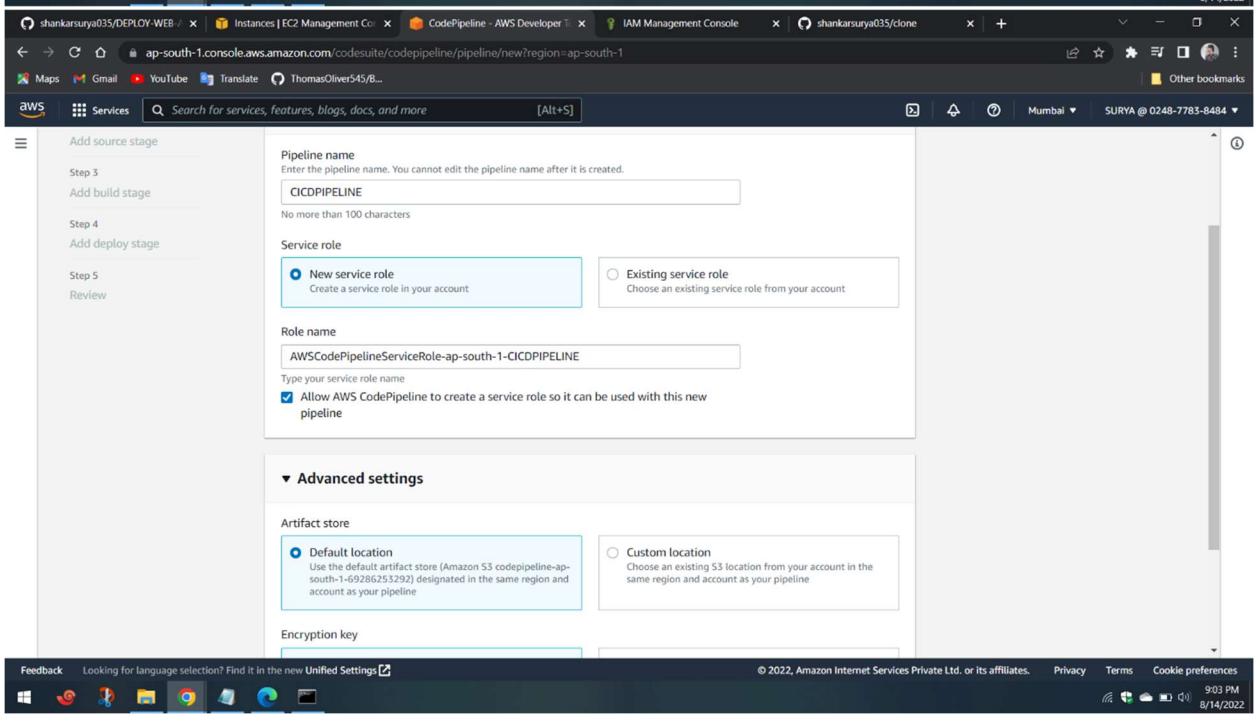


Create a Github repo treated as source



Create your first pipeline in CodePipeline





shankarsurya035/DEPLOY-WEB-/ | Instances | EC2 Management Co | CodePipeline - AWS Developer T | IAM Management Console | shankarsurya035/clone

ap-south-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=ap-south-1

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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 Info

Pipeline settings

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

CICDPIPELINEDEMO

No more than 100 characters

Service role

- (selected) 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-CICDPIPELINEDEMO

Type your service role name

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

▸ **Advanced settings**

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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

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 1)

Grant AWS CodePipeline access to your GitHub repository. This allows AWS CodePipeline to upload commits from GitHub to your pipeline.

Connect to GitHub

The GitHub (Version 1) action is not recommended
The selected action uses OAuth apps to access your GitHub repository. This is no longer the recommended method. Instead, choose the GitHub (Version 2) action to access your repository by creating a connection. Connections use GitHub Apps to manage authentication and can be shared with other resources. Learn more

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

- (selected) GitHub webhooks (recommended) — Use webhooks in GitHub to automatically start my pipeline when a change occurs
- AWS CodePipeline — Use AWS CodePipeline to check periodically for changes

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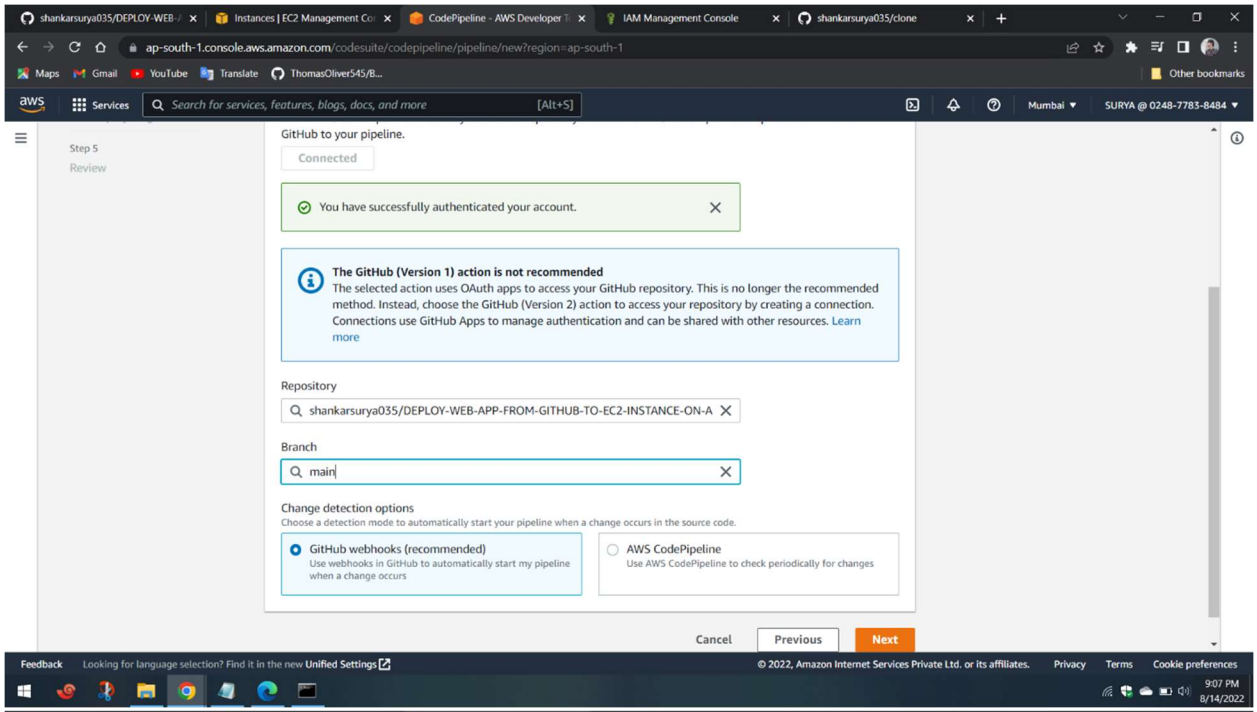
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IAM Management Console
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ap-south-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=ap-south-1
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Step 5
Review
GitHub to your pipeline.
Connected
You have successfully authenticated your account.
The GitHub (Version 1) action is not recommended
The selected action uses OAuth apps to access your GitHub repository. This is no longer the recommended method. Instead, choose the GitHub (Version 2) action to access your repository by creating a connection. Connections use GitHub Apps to manage authentication and can be shared with other resources. Learn more
Repository
shankarsurya035/DEPLOY-WEB-APP-FROM-GITHUB-TO-EC2-INSTANCE-ON-A
Branch
main
Change detection options
Choose a detection mode to automatically start your pipeline when a change occurs in the source code.
GitHub webhooks (recommended)
Use webhooks in GitHub to automatically start my pipeline when a change occurs
AWS CodePipeline
Use AWS CodePipeline to check periodically for changes
Cancel
Previous
Next
Feedback
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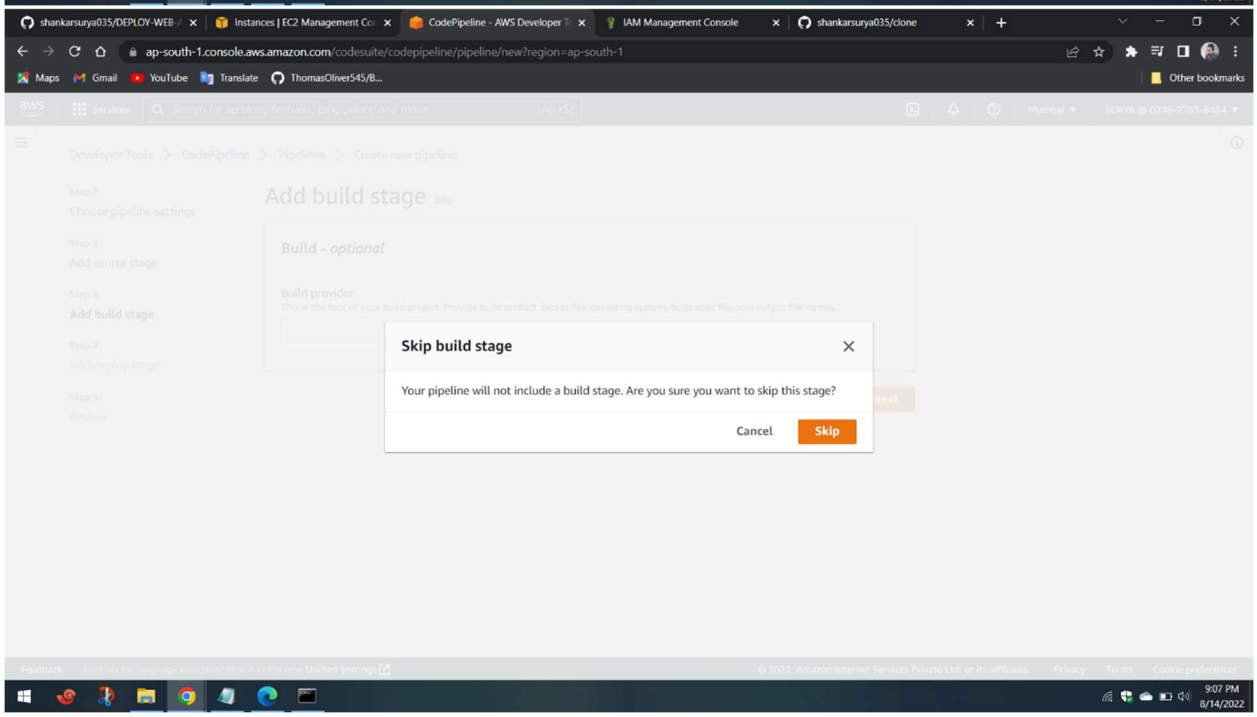
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CodePipeline - AWS Developer T
IAM Management Console
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ap-south-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=ap-south-1
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Gmail
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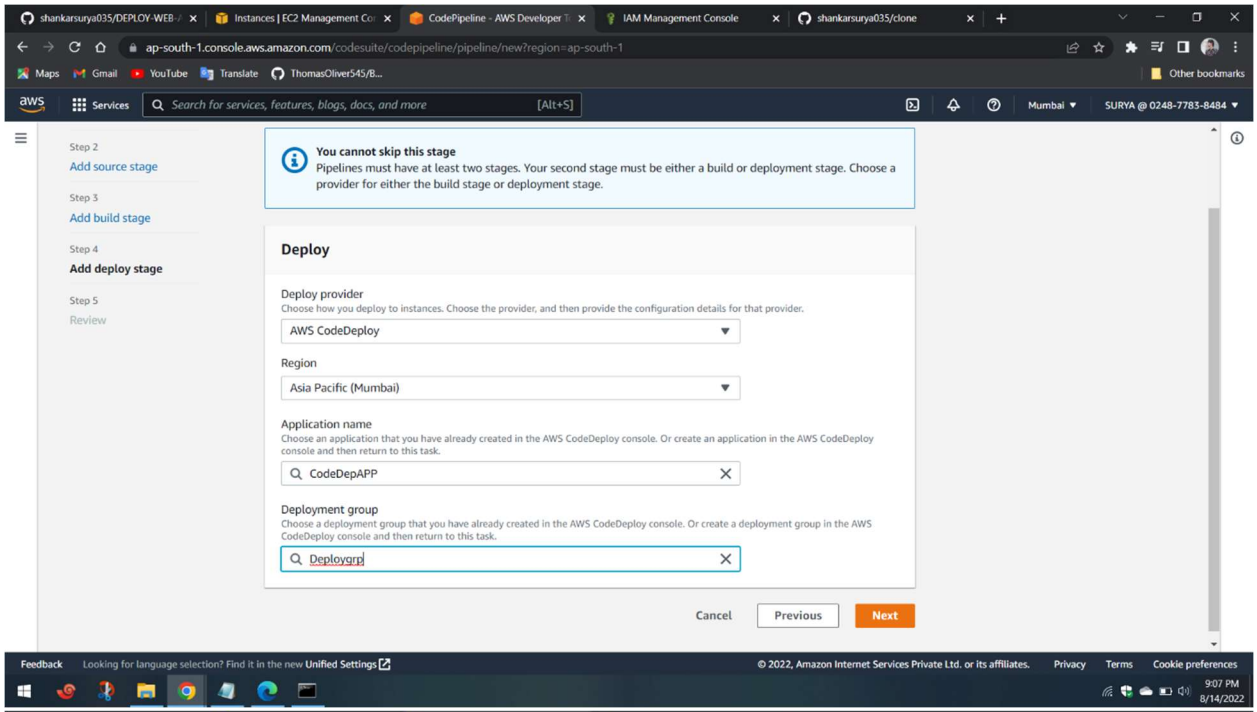
Other bookmarks
Developer Tools > CodePipeline > Pipelines > Create new pipeline
Add build stage
Build - optional
Build provider
Skip build stage
Your pipeline will not include a build stage. Are you sure you want to skip this stage?
Cancel
Skip
9:07 PM
8/14/2022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ap-south-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=ap-south-1
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Step 2
Add source stage
Step 3
Add build stage
Step 4
Add deploy stage
Step 5
Review
You cannot skip this stage
Pipelines must have at least two stages. Your second stage must be either a build or deployment stage. Choose a provider for either the build stage or deployment stage.
Deploy
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.
CodeDepAPP
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.
Deploygrp
Cancel
Previous
Next
Feedback
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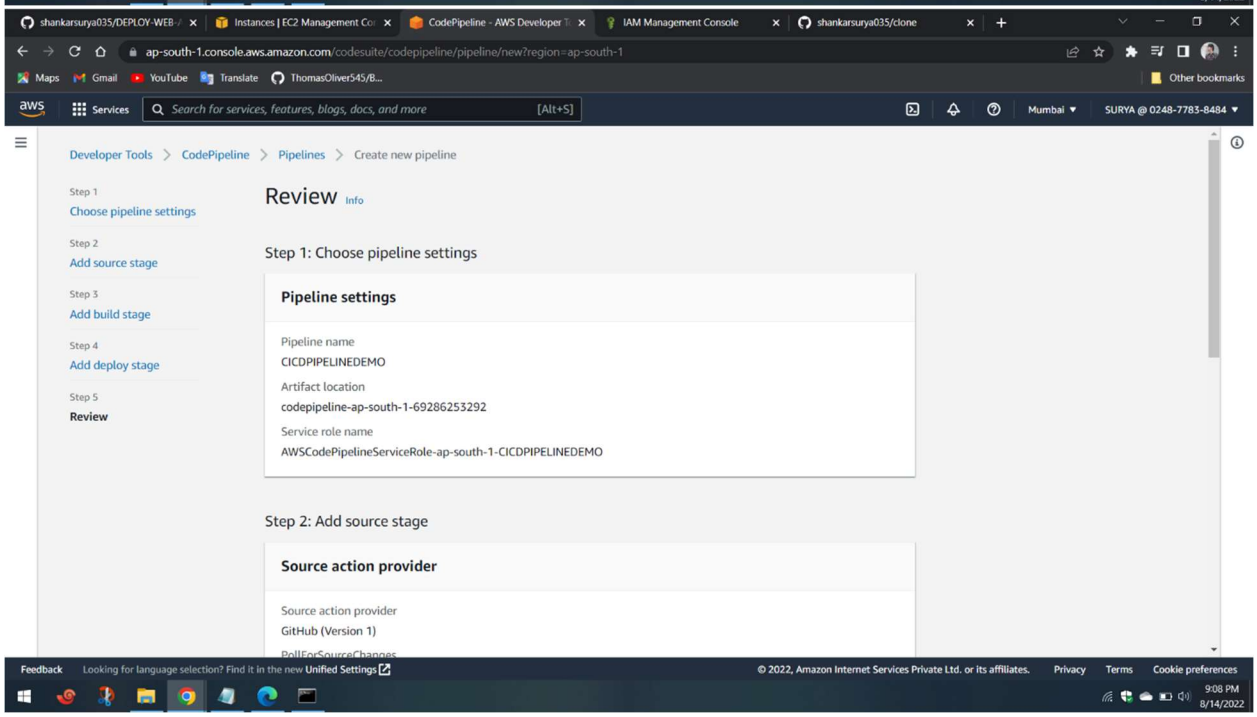
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Developer Tools > CodePipeline > Pipelines > Create new pipeline
Step 1
Choose pipeline settings
Step 2
Add source stage
Step 3
Add build stage
Step 4
Add deploy stage
Step 5
Review
Review
Info
Step 1: Choose pipeline settings
Pipeline settings
Pipeline name
CICDPIPELINEDEMO
Artifact location
codepipeline-ap-south-1-69286253292
Service role name
AWSCodePipelineServiceRole-ap-south-1-CICDPIPELINEDEMO
Step 2: Add source stage
Source action provider
Source action provider
GitHub (Version 1)
Feedback
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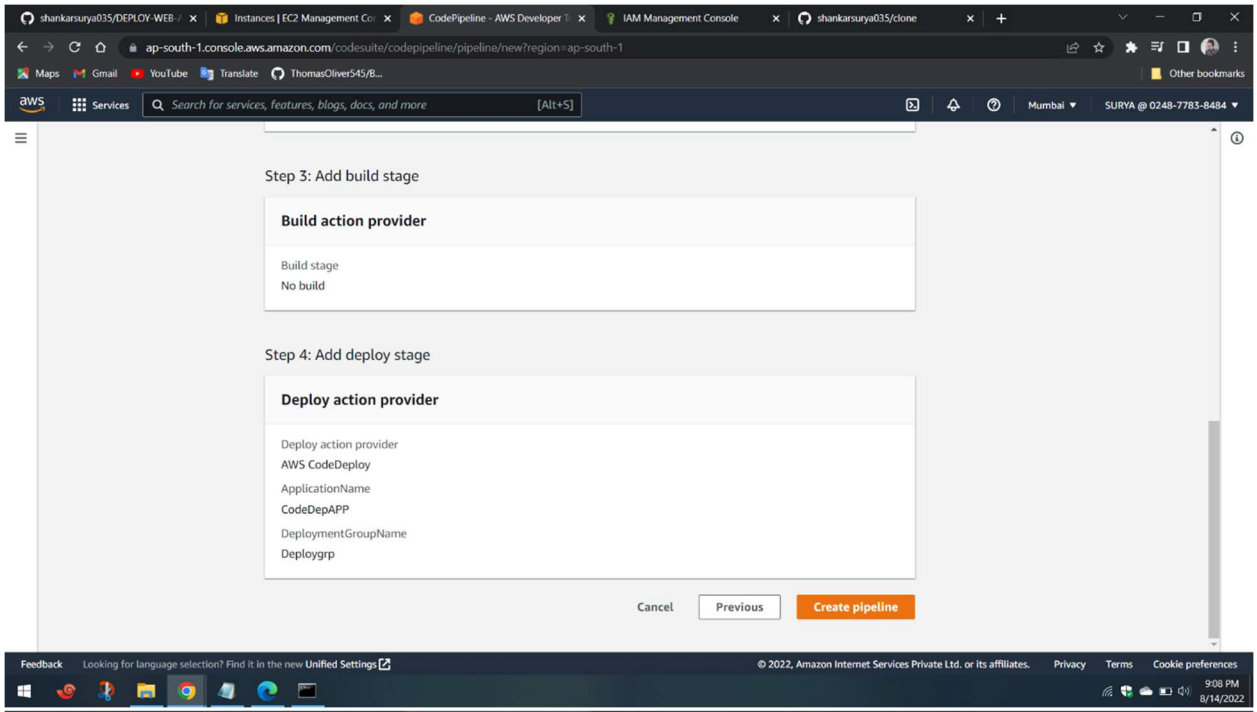
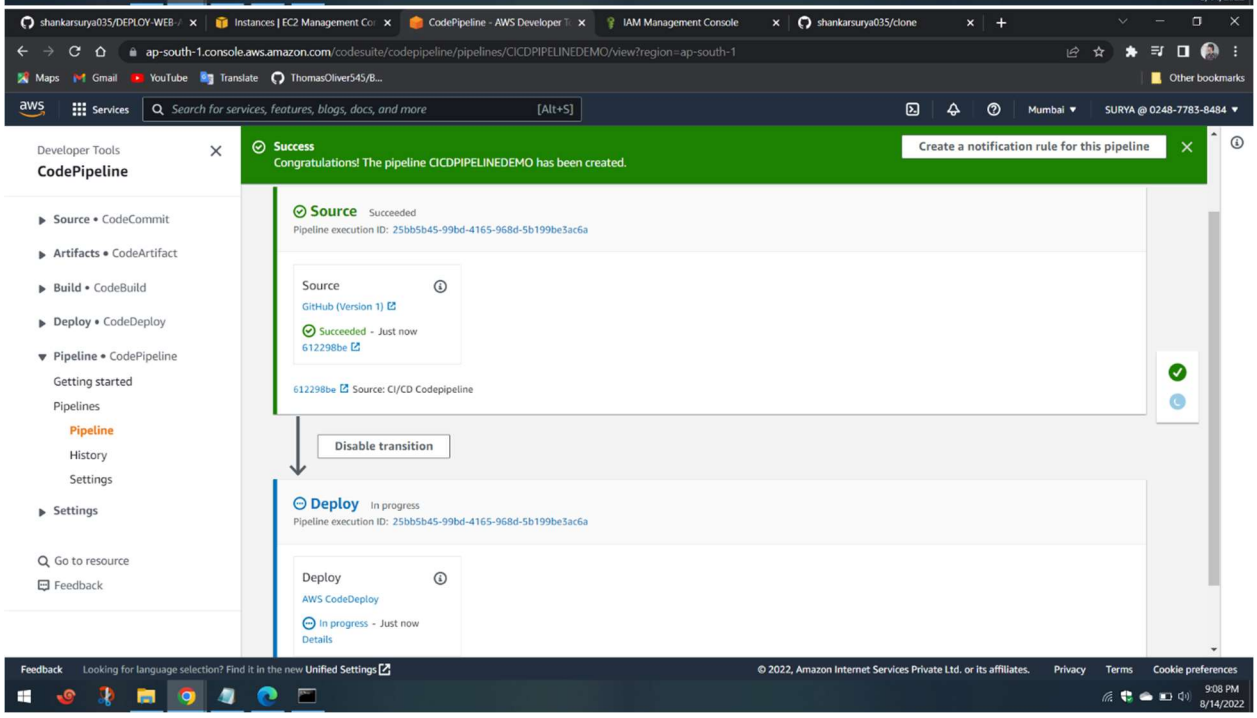
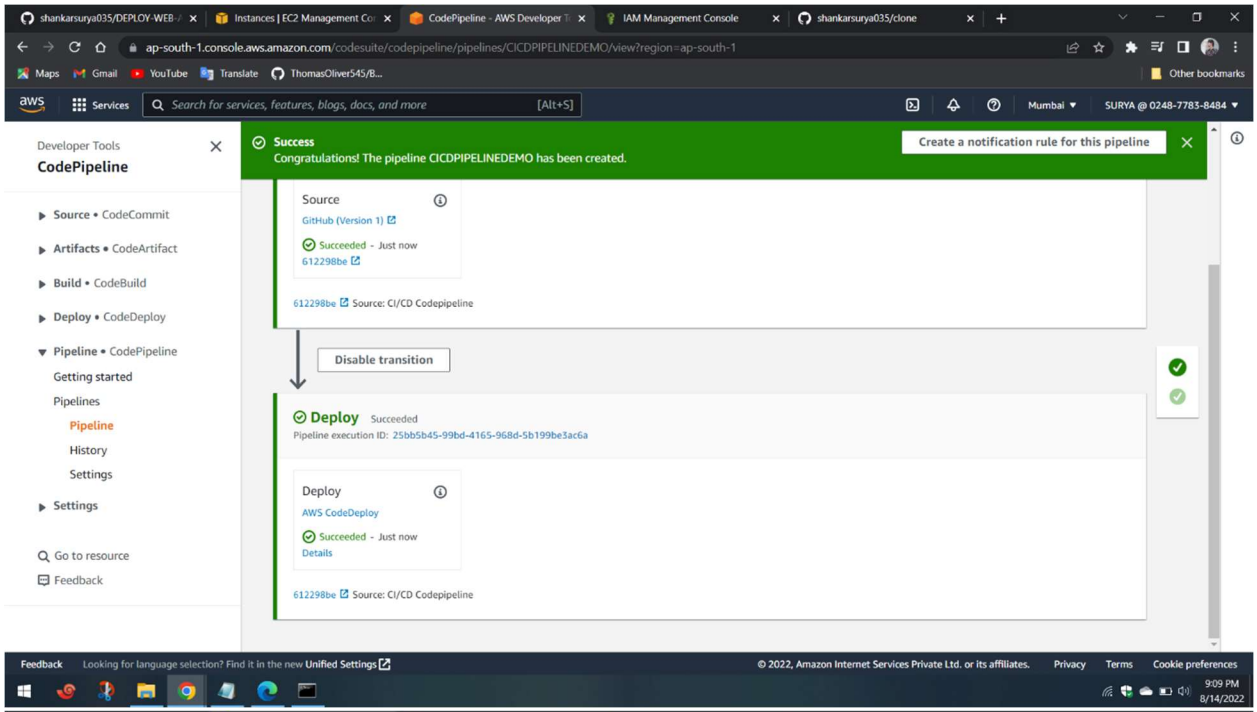

Step 3: Add build stage
Build action provider
Build stage
No build
Step 4: Add deploy stage
Deploy action provider
Deploy action provider
AWS CodeDeploy
ApplicationName
CodeDepAPP
DeploymentGroupName
Deploygrp
Cancel
Previous
Create pipeline


Developer Tools
CodePipeline
Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
Pipeline
History
Settings
Settings
Go to resource
Feedback
Success
Congratulations! The pipeline CICDPIPELINEDEMO has been created.
Create a notification rule for this pipeline
Source Succeeded
Pipeline execution ID: 25bb5b45-99bd-4165-968d-5b199be3ac6a
Source
GitHub (Version 1)
Succeeded - Just now
612298be
612298be Source: CI/CD Codepipeline
Disable transition
Deploy In progress
Pipeline execution ID: 25bb5b45-99bd-4165-968d-5b199be3ac6a
Deploy
AWS CodeDeploy
In progress - Just now
Details


Developer Tools
CodePipeline
Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
Pipeline
History
Settings
Settings
Go to resource
Feedback
Success
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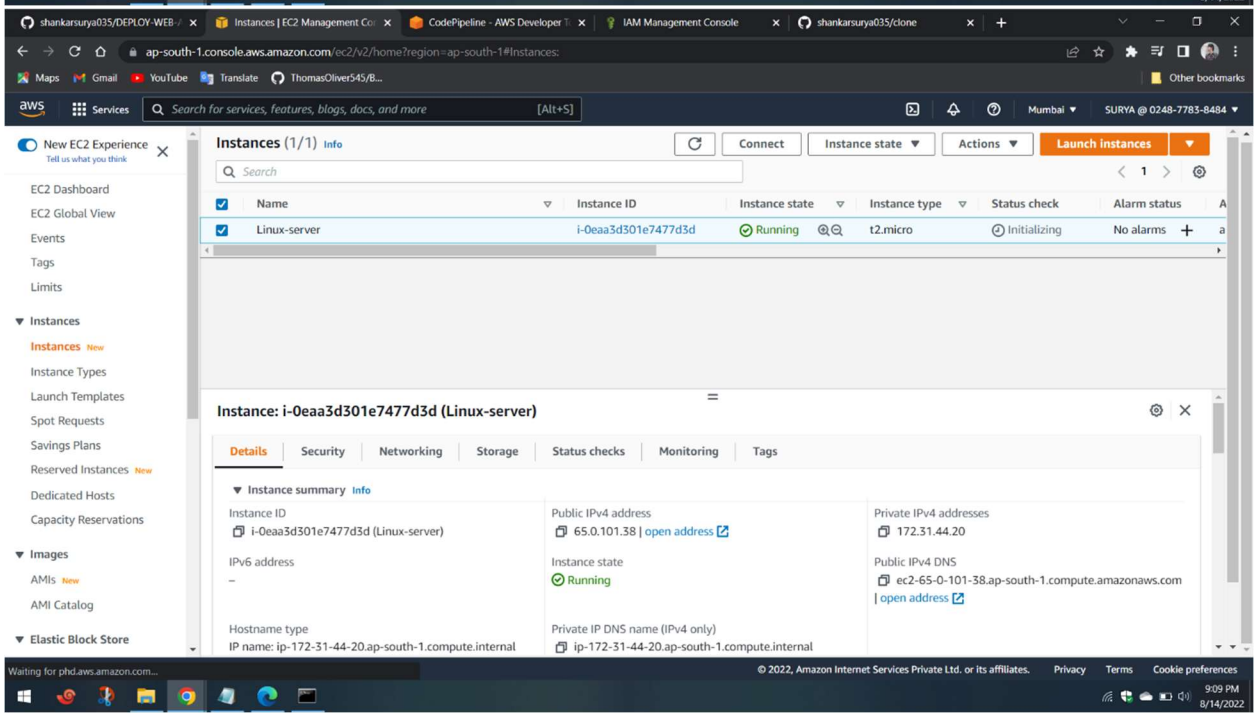
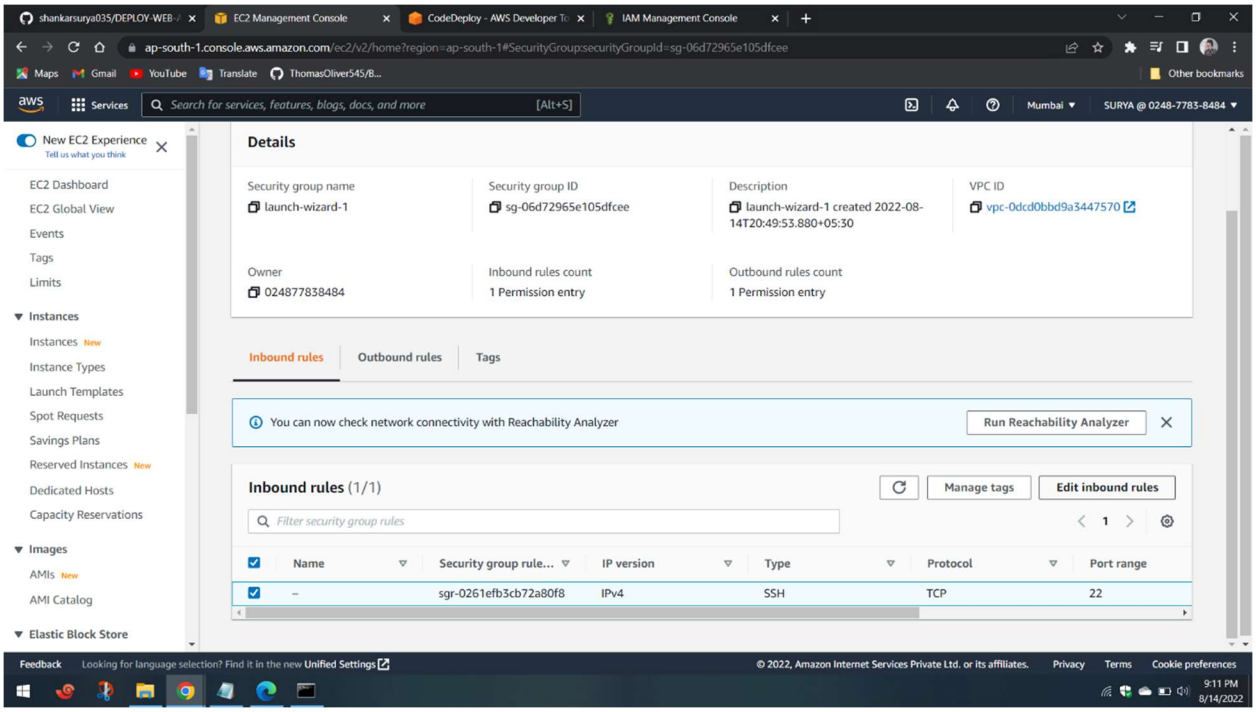
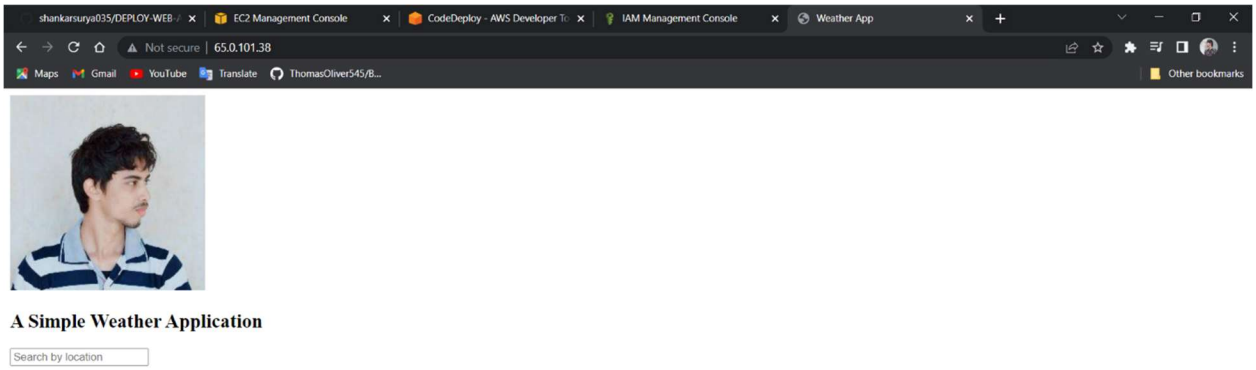
Create a notification rule for this pipeline
Source
GitHub (Version 1)
Succeeded - Just now
612298be
612298be Source: CI/CD Codepipeline
Disable transition
Deploy Succeeded
Pipeline execution ID: 25bb5b45-99bd-4165-968d-5b199be3ac6a
Deploy
AWS CodeDeploy
Succeeded - Just now
Details
612298be Source: CI/CD Codepipeline

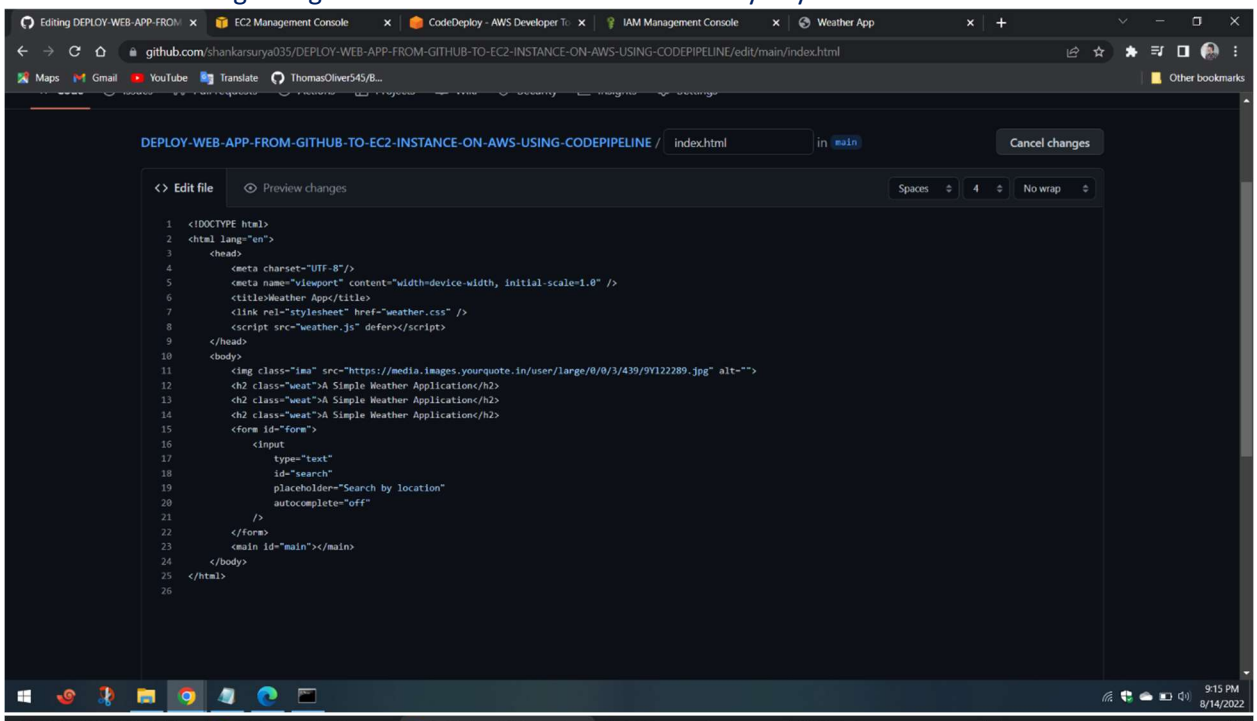

New EC2 Experience
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
AMIs New
AMI Catalog
Elastic Block Store
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Linux-server
i-0eaa3d301e7477d3d
Running
t2.micro
Initializing
No alarms
Instance: i-0eaa3d301e7477d3d (Linux-server)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-0eaa3d301e7477d3d (Linux-server)
Public IPv4 address
65.0.101.38 | open address
Private IPv4 addresses
172.31.44.20
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-65-0-101-38.ap-south-1.compute.amazonaws.com | open address
Hostname type
IP name: ip-172-31-44-20.ap-south-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-44-20.ap-south-1.compute.internal

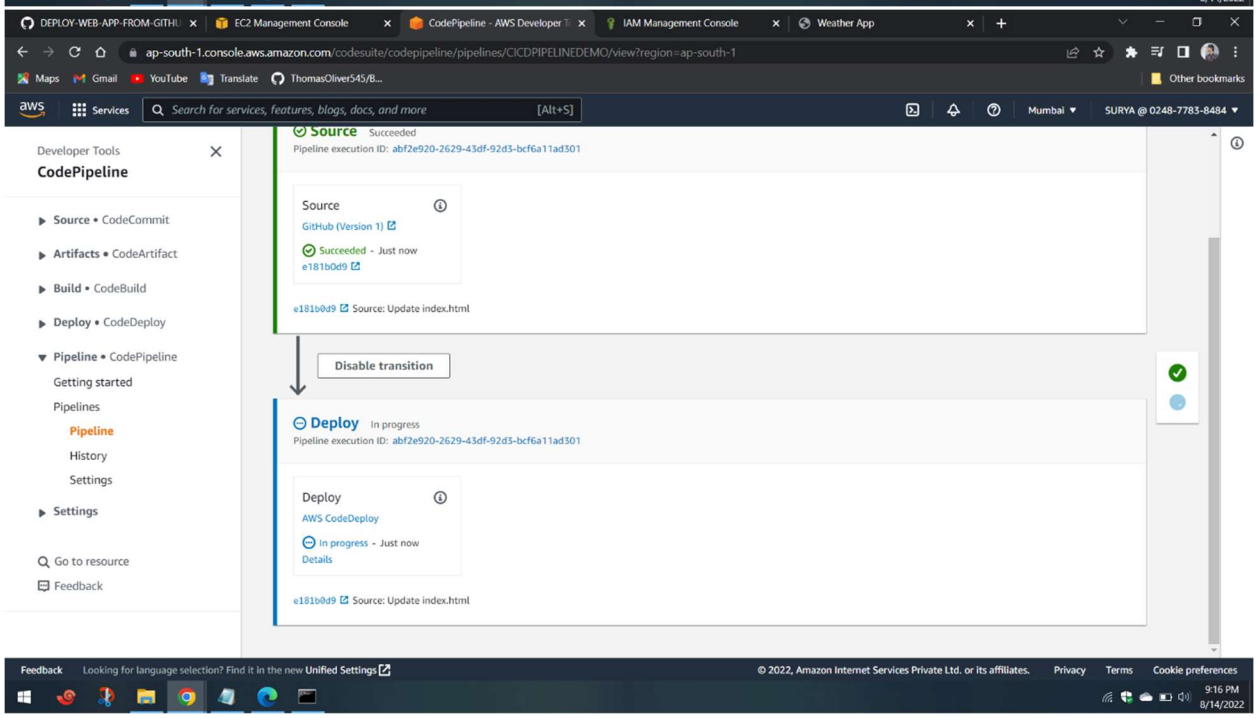


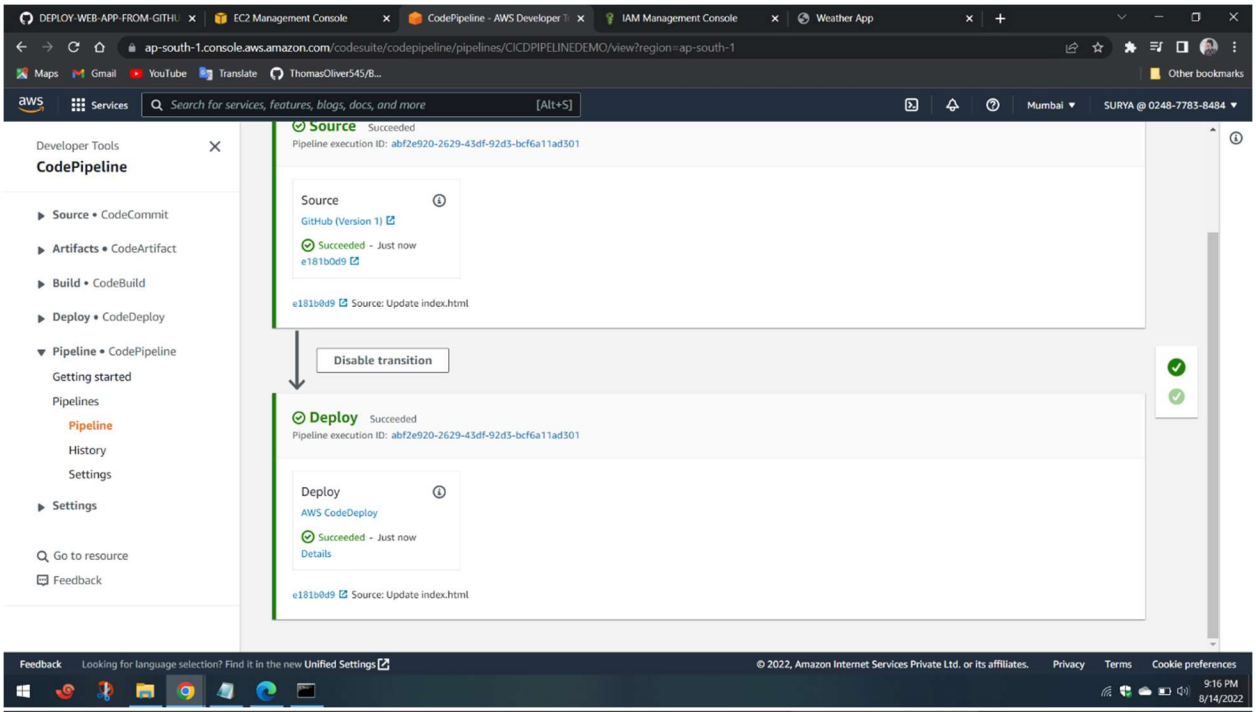
This is our website

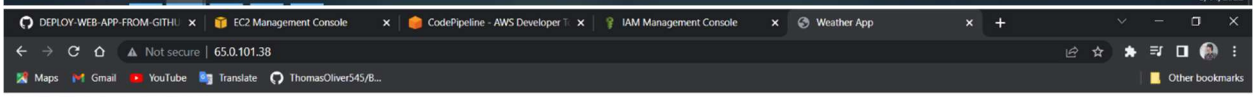


Now do some changes in github and it will reflect automatically in your website









A Simple Weather Application

A Simple Weather Application

A Simple Weather Application

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