

Name: Prashanth Raghavendra Rao

Task: AWS 5

Date: 12/06/2025

Task Description:

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

Create Instance Linux

The screenshot shows the AWS CloudFormation console with the following details:

- Function Name:** HelloWorld
- File Type:** Python
- File Content:** print("Hello World")
- Runtime:** Node.js 14.x
- IAM Role:** LambdaBasicExecutionRole
- Code Source:** S3 Bucket: prashanthlambda, Object: index.py
- Test:** Test
- Configuration:** Configuration
- Logs:** Logs
- Logs Stream:** HelloWorld-20250609-144804

EC2

Instance summary for i-097d5916156cebd34 (cicd)

Public IPv4 address: 65.1.12.18 | [open address](#)

Instance state: Running

Private IP DNS name (IPv4 only): ip-172-31-29-9.ap-south-1.compute.internal

Instance type: t3.micro

VPC ID: vpc-0f8938fb8ea61af6e (Default-VPC)

Subnet ID: subnet-09fd6fab0bc365232 (Default-SN-1)

Instance ARN: arn:aws:ec2:ap-south-1:755937526811:instance/i-097d5916156cebd34

Elastic IP addresses: 172.31.29.9

Public DNS: ec2-65-1-12-18.ap-south-1.compute.amazonaws.com | [open address](#)

AWS Compute Optimizer finding: User: arn:aws:iam:755937526811:user/guviprashanthraghavendra is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action

Auto Scaling Group name: -

Managed: false

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance details

AMI ID: ami-0b09627181cb5d5778

Monitoring: disabled

AMI name: al2023-ami-2023.7.20250609.0-kernel-6.1-x86_64

Allowed image: -

Platform details: Linux/UNIX

Termination protection: Managed

CloudShell | **Feedback**

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

Select trusted entity

Step 1: Select trusted entity

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: Allows 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.
- EC2 Role for AWS Systems Manager: Allows EC2 instances to call AWS services like CloudWatch and Systems Manager on your behalf.
- EC2 Spot Fleet Role: Allows EC2 Spot Fleet to request and terminate Spot Instances on your behalf.
- EC2 - Spot Fleet Auto Scaling: Allows Auto Scaling to access and update EC2 spot fleets on your behalf.
- EC2 - Spot Fleet Tagging: Allows EC2 to launch spot instances and attach tags to the launched instances on your behalf.
- EC2 - Spot Instances: Allows EC2 Spot Instances to launch and manage spot instances on your behalf.
- EC2 - Spot Fleet: Allows EC2 Spot Fleet to launch and manage spot fleet instances on your behalf.
- EC2 - Scheduled Instances

CloudShell | **Feedback**

Screenshot of the AWS IAM 'Create role' wizard, Step 2: Add permissions.

Add permissions

Permissions policies (1/1050)

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

Filter by Type: All types (11 matches)

Policy name	Type	Description
AmazonEC2RoleforAWSCodeDeploy	AWS managed	Provides EC2 access to S3 bucket to do...
AmazonEC2RoleforAWSCodeDeployLimited	AWS managed	Provides EC2 limited access to S3 buck...
AWSCodeDeployDeployerAccess	AWS managed	Provides access to register and deploy ...
AWSCodeDeployFullAccess	AWS managed	Provides full access to CodeDeploy res...
AWSCodeDeployReadOnlyAccess	AWS managed	Provides read only access to CodeDepl...
AWSCodeDeployRole	AWS managed	Provides CodeDeploy service access to ...
AWSCodeDeployRoleForCloudFormation	AWS managed	Provides CodeDeploy service access to ...
AWSCodeDeployRoleForECS	AWS managed	Provides CodeDeploy service wide acc...
AWSCodeDeployRoleForECSLimited	AWS managed	Provides CodeDeploy service limited a...
AWSCodeDeployRoleForLambda	AWS managed	Provides CodeDeploy service access to ...
AWSCodeDeployRoleForLambdaLimited	AWS managed	Provides CodeDeploy service limited a...

Set permissions boundary - optional

Cancel Previous Next

Screenshot of the AWS IAM 'Create role' wizard, Step 3: Name, review, and create.

Role details

Role name: cicdrolf

Description: Allows EC2 instances to call AWS services on your behalf.

Step 1: Select trusted entities

Trust policy

```

1- {
2-   "Version": "2012-10-17",
3-   "Statement": [
4-     {
5-       "Effect": "Allow",
6-       "Action": [
7-         "sts:AssumeRole"
8-       ],
9-       "Principal": [
10-         {
11-           "Service": [
12-             "ec2.amazonaws.com"
13-           ]
14-         }
15-       ]
16-     }
17-   ]
18- }

```

Step 2: Add permissions

Permissions policy summary

Policy name	Type	Attached as
AmazonEC2RoleforAWSCodeDeploy	AWS managed	Permissions policy

cloudshell Feedback

Screenshot of the AWS IAM Roles page showing a newly created role named "cicdrole".

Role cicdrole created.

Roles (7) 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.

Role name	Trusted entities	Last activity
AWSServiceRoleForElasticLoadBalancing	AWS Service: elasticloadbalancing	8 days ago
AWSServiceRoleForOrganizations	AWS Service: organizations (Service)	-
AWSServiceRoleForRDS	AWS Service: rds (Service-Linked Role)	7 days ago
AWSServiceRoleForSupport	AWS Service: support (Service-Linked Role)	-
AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service)	-
cicdrole	AWS Service: ec2	-
nl-admin-dont-del	Account: 228871801558	15 minutes ago

Roles Anywhere [Info](#)

Authenticate your non AWS workloads and securely provide access to AWS services.

Access AWS from your non AWS workloads

Operate your non AWS workloads using the same authentication and authorization strategy that you use within AWS.

X.509 Standard

Use your own existing PKI infrastructure or use [AWS Certificate Manager](#) [Private Certificate Authority](#) to authenticate identities.

Temporary credentials

Use temporary credentials with ease and benefit from the enhanced security they provide.

Screenshot of the AWS EC2 Instances page showing a single instance named "cicd".

Instances (1) info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Platform
cicd	i-097d5916156cebd34	Running	t3.micro	3/3 checks passed	View alarms	ap-south-1	Amazon Linux 2

Actions

- Instance diagnostics
- Instance settings
- Networking
- Security
- Get Windows password
- Modify IAM role
- Launch instances

i-097d5916156cebd34 (cicd)

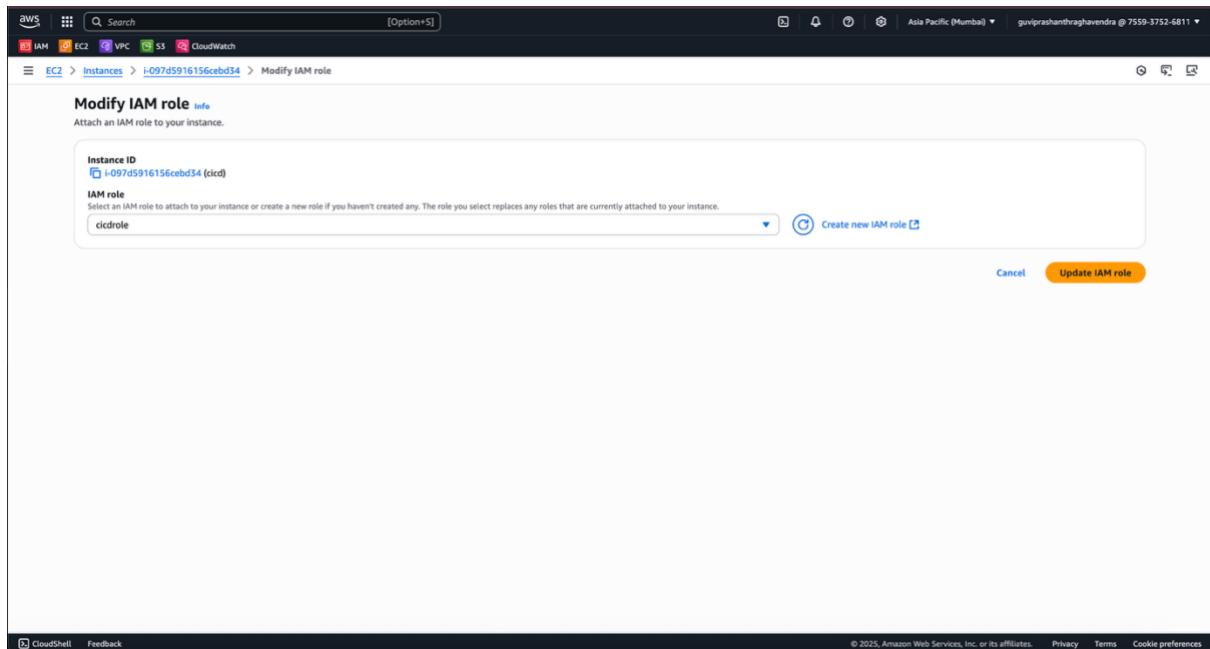
Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary

Instance ID: i-097d5916156cebd34
IPV6 address: -
Hostname type: IP name: ip-172-31-29-9.ap-south-1.compute.internal
Answer private resource DNS name: -
Auto-assigned IP address: 65.1.12.18 [Public IP]

Public IPv4 address: 65.1.12.18 [open address]
Instance state: Running
Private IP DNS name (IPv4 only): ip-172-31-29-9.ap-south-1.compute.internal
Instance type: t3.micro
VPC ID: vpc-0f8938fb8ea61af5e (Default-VPC)

Private IPv4 addresses: 172.31.29.9
Public DNS: ec2-65-1-12-18.ap-south-1.compute.amazonaws.com [open address]
Elastic IP addresses: -
AWS Compute Optimizer finding: No findings



Install AWSCodeDeployAgent

```

aws [Option+S] Search Asia Pacific (Mumbai) guvprashanthraghavendra @ 7559-3752-6811
IAM EC2 VPC S3 CloudWatch

[ec2-user@ip-172-31-29-9 ~]$ sudo yum update -y
Last metadata expiration check: 0:08:07 ago on Thu Jun 12 13:06:55 2025.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-29-9 ~]$ sudo yum install ruby -y
Last metadata expiration check: 0:08:19 ago on Thu Jun 12 13:06:55 2025.
Dependencies resolved.
=====
Package           Architecture Version      Repository   Size
=====
Installing:
  ruby3.2          x86_64    3.2.8-184.amzn2023.0.1           amazonlinux  40 k
Installing dependencies:
  ruby3.2-default-gems noarch   3.2.8-184.amzn2023.0.1           amazonlinux  33 kB
  ruby3.2-bigdecimal x86_64    3.1.2-184.amzn2023.0.1           amazonlinux  32 kB
  ruby3.2-rubygem-io-console x86_64    0.6.0-184.amzn2023.0.1           amazonlinux  22 kB
  ruby3.2-rubygem-json x86_64    2.6.3-184.amzn2023.0.1           amazonlinux  49 kB
  ruby3.2-rubygem-psych x86_64    5.0.1-184.amzn2023.0.1           amazonlinux  49 kB
Installing weak dependencies:
  ruby3.2-rubygem-bigdecimal x86_64    3.1.2-184.amzn2023.0.1           amazonlinux  65 kB
  ruby3.2-rubygem-bundler noarch   2.4.19-184.amzn2023.0.1           amazonlinux  383 kB
  ruby3.2-rubygem-rdoc noarch   6.5.1.1-184.amzn2023.0.1           amazonlinux  459 kB
  ruby3.2-rubygems noarch   3.4.19-184.amzn2023.0.1           amazonlinux  258 kB
Transaction Summary
=====
Install 10 Packages

Total download size: 5.0 M
Installed size: 18 M
Downloading Packages:
[1/10]: ruby3.2-default-gems-3.2.8-184.amzn2023.0.1.noarch.rpm 993 kB/s | 33 kB 00:00
[2/10]: ruby3.2-2.8-184.amzn2023.0.1.x86_64.rpm 1.0 MB/s | 40 kB 00:00
[3/10]: ruby3.2-rubygem-bigdecimal-3.1.3-184.amzn2023.0.1.x86_64.rpm 2.8 MB/s | 65 kB 00:00
[4/10]: ruby3.2-libs-3.2.8-184.amzn2023.0.1.x86_64.rpm 50 MB/s | 3.7 MB 00:00
[5/10]: ruby3.2-rubygem-io-console-0.6.0-184.amzn2023.0.1.x86_64.rpm 1.1 MB/s | 22 kB 00:00
[6/10]: ruby3.2-rubygem-bundler-2.4.19-184.amzn2023.0.1.noarch.rpm 8.2 MB/s | 383 kB 00:00
[7/10]: ruby3.2-rubygem-psych-5.0.1-184.amzn2023.0.1.x86_64.rpm 2.5 MB/s | 49 kB 00:00
[8/10]: ruby3.2-rubygem-psych-5.0.1-184.amzn2023.0.1.x86_64.rpm 2.0 MB/s | 48 kB 00:00
[9/10]: ruby3.2-rubygem-rdoc-6.5.1.1-184.amzn2023.0.1.noarch.rpm 16 MB/s | 459 kB 00:00
[10/10]: ruby3.2-rubygems-3.4.19-184.amzn2023.0.1.noarch.rpm 12 MB/s | 258 kB 00:00
i-097d5916156cebd34 (cicd)
PublicIPs: 65.1.12.18 PrivateIPs: 172.31.29.9
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IAM EC2 VPC S3 CloudWatch

For non-root users, this sets the GEM_HOME environment variable which specifies the default directory where RubyGems outside of the system path are installed.

By default, $GEM_HOME will point to ~/.local/share/gem/ruby
=====

Installing : ruby3.2-rubygem-io-console-0.6.0-184.amzn2023.0.1.x86_64
Installing : ruby3.2-rubygem-json-0.6.3-184.amzn2023.0.1.x86_64
Installing : ruby3.2-rubygem-psych-5.0.1-184.amzn2023.0.1.x86_64
Installing : ruby3.2-rubygem-rdoc-6.5.1.1-184.amzn2023.0.1.noarch
Installing : ruby3.2-libs-3.2.8-184.amzn2023.0.1.x86_64
Running scriptlet: ruby3.2-2.8-184.amzn2023.0.1.x86_64
Running scriptlet: ruby3.2-rubygem-bundler-2.4.19-184.amzn2023.0.1.noarch
Running scriptlet: ruby3.2-rubygem-rdoc-6.5.1.1-184.amzn2023.0.1.noarch
Running scriptlet: ruby3.2-rubygems-3.4.19-184.amzn2023.0.1.noarch
Running scriptlet: ruby3.2-libs-3.2.8-184.amzn2023.0.1.x86_64
Verifying : ruby3.2-2.8-184.amzn2023.0.1.x86_64
Verifying : ruby3.2-default-gems-3.2.8-184.amzn2023.0.1.noarch
Verifying : ruby3.2-libs-3.2.8-184.amzn2023.0.1.x86_64
Verifying : ruby3.2-rubygem-bigdecimal-3.1.3-184.amzn2023.0.1.x86_64
Verifying : ruby3.2-rubygem-bundler-2.4.19-184.amzn2023.0.1.noarch
Verifying : ruby3.2-rubygem-psych-5.0.1-184.amzn2023.0.1.x86_64
Verifying : ruby3.2-rubygem-psych-5.0.1-184.amzn2023.0.1.x86_64
Verifying : ruby3.2-rubygem-rdoc-6.5.1.1-184.amzn2023.0.1.noarch
Verifying : ruby3.2-rubygems-3.4.19-184.amzn2023.0.1.noarch
Installed:
ruby3.2-3.2.8-184.amzn2023.0.1.x86_64
ruby3.2-rubygem-bigdecimal-3.1.3-184.amzn2023.0.1.x86_64
ruby3.2-rubygem-json-0.6.3-184.amzn2023.0.1.x86_64
ruby3.2-rubygem-psych-5.0.1-184.amzn2023.0.1.x86_64
ruby3.2-libs-3.2.8-184.amzn2023.0.1.x86_64
ruby3.2-rubygem-io-console-0.6.0-184.amzn2023.0.1.x86_64
ruby3.2-rubygem-rdoc-6.5.1.1-184.amzn2023.0.1.noarch
Completed!
[ec2-user@ip-172-31-29-9 ~]$ sudo yum install wget -y
Last metadata expiration check: 0:08:41 ago on Thu Jun 12 13:06:55 2025.
Package wget-1.21.3-1.amzn2023.0.4.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-29-9 ~]$ i-097d5916156cebd34 (cicd)
PublicIPs: 65.1.12.18 PrivateIPs: 172.31.29.9
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```

```

aws [Option+S] Search Asia Pacific (Mumbai) guvprashanthraghavendra @ 7559-3752-6811 ▾
IAM EC2 VPC S3 CloudWatch

Complete!
[ec2-user@ip-172-31-29-9 ~]$ sudo yum install wget -y
Last metadata expiration check: 0:08:41 ago on Thu Jun 12 13:06:55 2025.
Package wget-1.21.3-1.amzn2023.0.4.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-29-9 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-29-9 ~]$ wget https://aws-codedeploy-ap-south-1.s3.ap-south-1.amazonaws.com/latest/install
--2025-06-12 13:18:26 -- https://aws-codedeploy-ap-south-1.s3.ap-south-1.amazonaws.com/latest/install
Resolving aws-codedeploy-ap-south-1.s3.ap-south-1.amazonaws.com (aws-codedeploy-ap-south-1.s3.ap-south-1.amazonaws.com)... 16.12.36.50, 52.219.64.127, 16.12.36.26, ...
Connecting to aws-codedeploy-ap-south-1.s3.ap-south-1.amazonaws.com (aws-codedeploy-ap-south-1.s3.ap-south-1.amazonaws.com)|16.12.36.50|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 19045 [19KB]
Saving cor 'install'

install          100%[=====] 18.60K ---.KB/s   in 0.001s

2025-06-12 13:18:26 (33.4 MB/s) - 'install' saved [19045/19045]

[ec2-user@ip-172-31-29-9 ~]$ chmod +x ./install
chmod: cannot access './install': No such file or directory
[ec2-user@ip-172-31-29-9 ~]$ ls
install
[ec2-user@ip-172-31-29-9 ~]$ ls -ltr
total 20
-rw-r--r--. 1 ec2-user ec2-user 19045 Nov 11 2024 install
[ec2-user@ip-172-31-29-9 ~]$ chmod +x ./install
[ec2-user@ip-172-31-29-9 ~]$ ls -ltr
total 20
-rwxr-xr-x. 1 ec2-user ec2-user 19045 Nov 11 2024 install
[ec2-user@ip-172-31-29-9 ~]$ sudo ./install auto
i, [2025-06-12T13:19:22.264598 #27212] INFO -- : Starting Ruby version check.
W, [2025-06-12T13:19:22.264756 #27212] WARN -- : The Ruby version in /usr/bin/ruby3.2 is 3.2.8, . Attempting to install anyway.
i, [2025-06-12T13:19:22.264799 #27212] INFO -- : Starting update check.
i, [2025-06-12T13:19:22.281421 #27212] INFO -- : Checking automatically detect supported package manager type for system...
i, [2025-06-12T13:19:22.281421 #27212] INFO -- : Checking AWS REGION environment variable for region information...
i, [2025-06-12T13:19:22.281464 #27212] INFO -- : Checking EC2 metadata service for region information...
i, [2025-06-12T13:19:22.301420 #27212] INFO -- : Checking AWS DOMAIN environment variable for domain information...
i, [2025-06-12T13:19:22.301461 #27212] INFO -- : Checking EC2 metadata service for domain information...
i, [2025-06-12T13:19:22.304750 #27212] INFO -- : Downloading version file from bucket aws-codedeploy-ap-south-1 and key latest/LATEST VERSION...

i-097d5916156cebd34 (cicd)
PublicIPs: 65.1.12.18 PrivatePcs: 172.31.29.9

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IAM EC2 VPC S3 CloudWatch

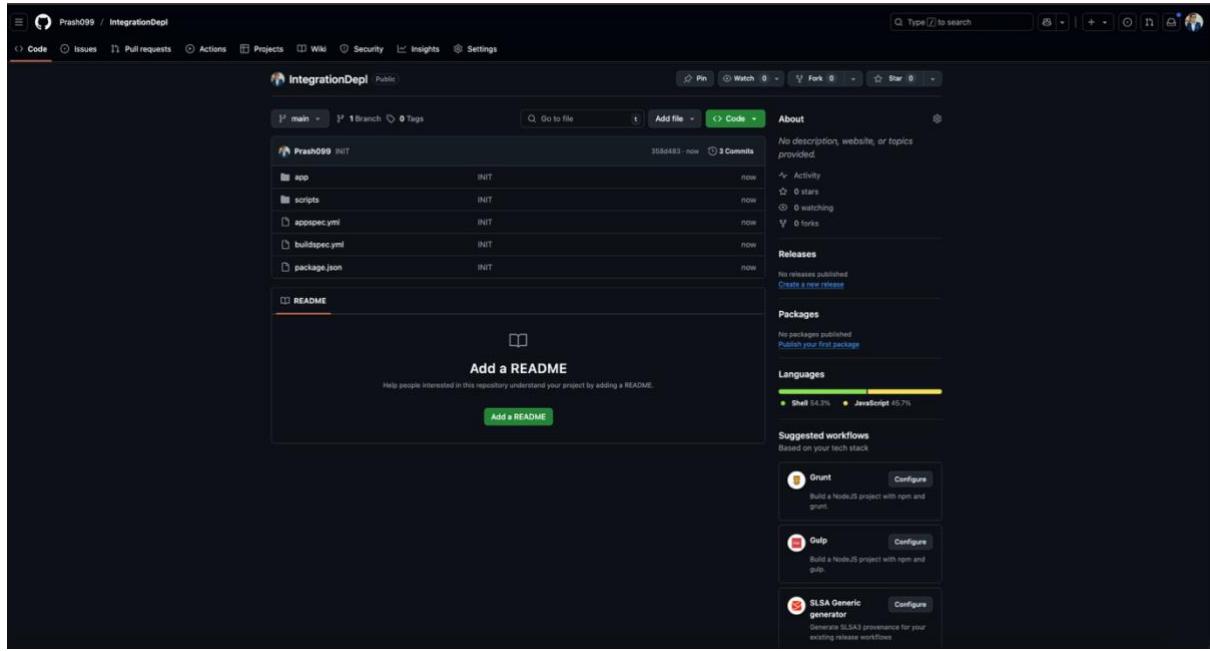
=====
Package           Architecture      Version       Repository      Size
=====
Installing:     codedeploy-agent      noarch        1.7.1-110      #commandline    2.8 M
=====
Transaction Summary
=====
Install 1 Package
=====
Total size: 2.8 M
Installed: 2.8 M
Downloaded Packages:
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Performing transaction
  Preparing:
    Running scriptlet: codedeploy-agent-1.7.1-110.noarch
  1/1
  1/1
pre hook : 1
Checking if there is already a process named codedeploy-agent running.
  Installing : codedeploy-agent-1.7.1-110.noarch
  1/1
  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
=====
Completed:
i, [2025-06-12T13:19:25.306447 #27212] INFO -- : Update check complete.
i, [2025-06-12T13:19:25.306483 #27212] INFO -- : Stopping update.
[ec2-user@ip-172-31-29-9 ~]$ sudo service codedeploy-agent start
Starting codedeploy-agent[ec2-user@ip-172-31-29-9 ~]$ sudo service codedeploy-agent status
The AWS CodeDeploy app-agent is running as PID 27351
[ec2-user@ip-172-31-29-9 ~]$ 

i-097d5916156cebd34 (cicd)
PublicIPs: 65.1.12.18 PrivatePcs: 172.31.29.9

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```

GitHub Repo Push



Create Code Build

Screenshot of the AWS CloudWatch Create build project configuration page.

Project configuration

Project name: cicdprash

Project type: Default project (Create a custom CodeBuild project) Runner project (Create a CodeBuild managed runner for workflows in GitHub Actions, GitHub Enterprise Actions, GitHub, or Buildkite).

Source

Source 1 - Primary

Source provider: GitHub

Credential: Your account is successfully connected through OAuth using CodeBuild managed token. Manage account credentials.

Repository: Repository in my GitHub account Public repository GitHub scoped webhook

Source URL: https://github.com/Prash099/integrationDep1.git

Source version - optional info: Enter a pull request, branch, commit ID, tag, or reference and a commit ID.

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: codebuild-cicdprash-service-role

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

Artifact 1 - Primary

Type: No artifacts

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

Additional configuration

Artifacts

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:

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.

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

Path - optional:
 The path to the build output ZIP file or folder.

Namespace type - optional:
 None Choose Build ID to insert the build ID into the path to the build output ZIP file or folder, e.g. MyPath/MyBuildID/MyArtifact.zip. Otherwise, choose None.

Artifacts packaging

None
 The artifact files will be uploaded to the bucket.

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

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

Additional configuration
 Cache, encryption key

Logs

CloudWatch

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

S3 logs - optional
 Checking this option will upload build output logs to S3.

Bucket:

Path prefix:

Disable S3 log encryption

AWS Services CloudWatch

Developer Tools > CodeBuild > Build projects > cicdprash

cicdprash

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

Configuration

Source provider GitHub Primary repository Prash099/IntegrationDept Artifacts upload location codepipeline-ap-south-1-2f4213b93ae3-4a2c-9194-5d0964b458d Service role arn:aws:iam::755937526811:role/service-role/codebuild-cicdprash-service-role

Public builds Disabled

Build history Batch history Project details Build triggers Metrics Debug sessions

Build history Step build View artifacts View logs Delete builds Retry build Debug build

Build run Status Build number Source version Submitter Duration Completed

No results There are no results to display.

CloudShell Feedback

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CloudShell Feedback

Developer Tools > CodeBuild > Build started You have successfully started the following build: cicdprash:056fe76d-c0fb-4298-b203-d4b13c88b310

cicdprash:056fe76d-c0fb-4298-b203-d4b13c88b310

Stop build Debug build Retry build

Build status

Status In progress Initiator guvprashanthraghavendra Build ARN arn:aws:codebuild:ap-south-1:755937526811:build/cicdprash:h056fe76d-c0fb-4298-b203-d4b13c88b310 Resolved source version -

Start time Jun 12, 2025 8:35 PM (UTC+5:30) End time - Build number 1

Build logs Phase details Reports Environment variables Build details Resource utilization

Logs

CloudWatch logs DISABLED CloudWatch group name /aws/codebuild/cicdprash CloudWatch stream name -

S3 logs ENABLED S3 location codepipeline-ap-south-1-2f4213b93ae3-4a2c-9194-5d0964b458d/cicdlogs Encryption disabled False

Download S3 logs

CloudShell Feedback

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Asia Pacific (Mumbai) guvprashanthraghavendra @ 755937526811

The screenshot shows the AWS CloudWatch Developer Tools interface. On the left, there's a sidebar with navigation links for AWS services like Lambda, VPC, S3, CloudWatch, and CloudWatch Metrics. The main area displays the build logs for a successful build. The build status table shows details such as build number (1), start time (Jun 12, 2025 8:35 PM UTC+5:30), end time (Jun 12, 2025 8:35 PM UTC+5:30), and build ARN (arn:aws:codebuild:ap-south-1:755937526811:build/cicdprash:056fe76d-c0fb-4298-b203-d4b13c88b310). Below the table is a detailed log table with columns for Name, Status, Context, Duration, Start time, and End time. The log table lists various build phases: SUBMITTED, QUEUED, PROVISIONING, DOWNLOAD_SOURCE, INSTALL, PRE_BUILD, BUILD, POST_BUILD, UPLOAD_ARTIFACTS, FINALIZING, and COMPLETED. Each row provides a timestamp and a detailed log message. At the bottom of the log table, it says "Installing dependencies" and "Build phase started".

S3 Logs

```
● ● ● 056fe76d-c0fb-4298-b203-d4b13c88b310 ~
[Container] 2025/06/12 15:05:29.484026 Running on CodeBuild On-demand
[Container] 2025/06/12 15:05:29.484034 Waiting for buildspec ping
[Container] 2025/06/12 15:05:29.565887 Waiting for DOWNLOAD_SOURCE
[Container] 2025/06/12 15:05:32.466889 Phase is DOWNLOAD_SOURCE
[Container] 2025/06/12 15:05:32.471648 CODEBUILD_SRC_DIR=/codebuild/output/src3288649543/src/github.com/Prash099/IntegrationDapl
[Container] 2025/06/12 15:05:32.471648 Local path is /codebuild/output/src3288649543/src/github.com/Prash099/IntegrationDapl/buildspec.yml
[Container] 2025/06/12 15:05:32.473944 Setting HTTP client timeout to higher timeout for Github and GitHub Enterprise sources
[Container] 2025/06/12 15:05:32.474035 Processing environment variables
[Container] 2025/06/12 15:05:32.578951 Selecting 'nodejs' runtime version '16' based on manual selections...
[Container] 2025/06/12 15:05:34.444306 Running command echo "Installing custom Node.js version 16 ..."
[Container] 2025/06/12 15:05:34.452119 Running command n --no-preserve 16 &> rm -rf /tmp/*
installing : nodejs@v16.20.2
  fetch : https://nodejs.org/dist/v16.20.2/node-v16.20.2-linux-x64.tar.xz
  copying : node@16.20.2
  installed : v16.20.2 (with npm 8.19.4)

[Container] 2025/06/12 15:05:47.445331 Moving to directory /codebuild/output/src3288649543/src/github.com/Prash099/IntegrationDapl
[Container] 2025/06/12 15:05:47.445354 Cache is not defined in the buildspec
[Container] 2025/06/12 15:05:47.481125 Skip cache due to: no paths specified to be cached
[Container] 2025/06/12 15:05:47.481125 Registering with agent
[Container] 2025/06/12 15:05:47.512881 Phase complete: DOWNLOAD_SOURCE State: SUCCEEDED
[Container] 2025/06/12 15:05:47.512881 BUILD: 2 commands
[Container] 2025/06/12 15:05:47.512894 INSTALL: 2 commands
[Container] 2025/06/12 15:05:47.513163 Phase complete: DOWNLOAD_SOURCE State: SUCCEEDED
[Container] 2025/06/12 15:05:47.513163 Entering phase POST_BUILD
[Container] 2025/06/12 15:05:47.570561 Entering phase INSTALL
[Container] 2025/06/12 15:05:47.605107 Running command echo "Installing dependencies"
[Container] 2025/06/12 15:05:47.612626 Running command npm install
up to date, audited 1 package in 110ms
found 0 vulnerabilities

[Container] 2025/06/12 15:05:47.986454 Phase complete: INSTALL State: SUCCEEDED
[Container] 2025/06/12 15:05:48.016741 Entering phase POST_BUILD
[Container] 2025/06/12 15:05:48.016969 Phase complete: POST_BUILD State: SUCCEEDED
[Container] 2025/06/12 15:05:48.019866 Phase context status code: Message:
[Container] 2025/06/12 15:05:48.047288 Entering phase BUILD
[Container] 2025/06/12 15:05:48.04804074 Running command echo "Build phase started"
Build phase started
[Container] 2025/06/12 15:05:48.055917 Running command npm run start
> awsbuildtest@1.0.0 start
> node app/app.js
Hello, AWS CodeBuild!

[Container] 2025/06/12 15:05:48.339852 Phase complete: BUILD State: SUCCEEDED
[Container] 2025/06/12 15:05:48.339869 Phase context status code: Message:
[Container] 2025/06/12 15:05:48.370621 Entering phase POST_BUILD
[Container] 2025/06/12 15:05:48.371253 Phase complete: POST_BUILD State: SUCCEEDED
```

Create Code Deploy

Screenshot of the AWS CodePipeline 'Choose pipeline settings' step.

Pipeline settings

Pipeline name: cicdpipeline

Execution mode: Queued (selected)

Service role: New service role (selected)

Role name: AWSCodePipelineServiceRole-ap-south-1-cicdpipeline

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

Advanced settings: Configure artifact store location, encryption settings, and pipeline variables for your pipeline.

Cancel Previous Next

Screenshot of the AWS CodePipeline 'Add source stage' step.

Source

Source provider: GitHub (via OAuth app) (selected)

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

You have successfully configured the action with the provider:

The GitHub (via OAuth app) action is not recommended: The selected action uses OAuth app to access your GitHub repository. This is no longer the recommended method. Instead, choose the GitHub (via GitHub App) 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: Q Prash099/IntegrationDepl

Branch: Q main

Enable automatic retry on stage failure:

Cancel Previous Next

Add build stage

Step 1 Choose creation option
Step 2 Choose pipeline settings
Step 3 Add source stage
Step 4 **Add build stage**
Step 5 Add test stage
Step 6 Add deploy stage
Step 7 Review

Build - optional

Build provider
 Commands Other build providers
AWS CodeBuild

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.
 cdpprjn

Define buildspec override - optional
Buildspec file or definition that overrides the latest one defined in the build project, for this build only.

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](#)

Build type
 Single build Triggers a single build. Batch build Triggers multiple builds as a single execution.

Region
Asia Pacific (Mumbai)

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

SourceArtifact
Defined by: Source

Enable automatic retry on stage failure

Amazon S3

General purpose buckets
Directory buckets
Table buckets
Access Grants
Access Points for general purpose buckets
Access Points for directory buckets
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings

Feature spotlight

codepipeline-ap-south-1-2f4213b93ae3-4a2c-9194-5d09c64b438d

Objects (2)

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](#)

Name	Type	Last modified	Size	Storage class
cdlog/	Folder	-	-	-
cdpipeline/	Folder	-	-	-

Screenshot of the AWS IAM 'Create role' wizard, Step 2: Add permissions.

The 'Add permissions' step is selected. A single policy, 'AWSCodeDeployRole', is listed under 'Permissions policies'. The 'Type' is 'AWS managed'.

Navigation buttons at the bottom right: Cancel, Previous, Next.

Screenshot of the AWS CodeDeploy 'Create deployment group' wizard.

The 'Create deployment group' step is selected. The application 'cicddeploy' is chosen.

Deployment group name: Enter a deployment group name: 'cicddeployash'.

Service role: Enter a service role with CodeDeploy permissions: 'arn:aws:iam::755937526811:role/cicddeploy'.

Deployment type: Choose how to deploy your application: 'In-place' (selected) or 'Blue/Green'.

Environment configuration: Standard configuration options.

Navigation buttons at the bottom right: CloudShell, Feedback.

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Deployment type

Choose how to deploy your application

In-place Replaces 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, traffic is automatically redirected from the original environment 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.
Multiple tag groups: Only instances identified by all the tag groups will be deployed.

Tag group:

Key	Value - optional
Q Name	Q cicd

Add tag + Add tag group

On-premises instances

Matching instances 1 unique matched instance. Click here for details

Agent configuration with AWS Systems Manager Info

Complete the required prerequisites before AWS Systems Manager can install the CodeDeploy Agent.

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CodeDeploy

Developer Tools CodeDeploy

Source • CodeCommit Artifacts • CodeArtifact Build • CodeBuild Deploy • CodeDeploy Applications Application Settings Deployment configurations On-premises instances Pipeline • CodePipeline Settings Go to resource Feedback

cicddeployrash

Success Deployment group created

Developer Tools > CodeDeploy > Applications > cicddeploy > cicddeployrash

Edit Delete Create deployment

Deployment group details

Deployment group name	cicddeployrash	Application name	cicddeploy	Compute platform	EC2/On-premises
Deployment type	In-place	Service role ARN	arn:aws:iam::755937526811:role/cicddeploy	Deployment configuration	CodeDeployDefault.AllAtOnce
Rollback enabled	False	Agent update scheduler	Learn to schedule update in AWS Systems Manager		

Environment configuration: Amazon EC2 instances

Key	Value
Name	cicd

Triggers

Name	Events	Type
		No triggers have been created for this deployment group.

Alarms

Name

No Amazon CloudWatch alarms have been created for this deployment group

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Create Code Pipeline

Screenshot of the AWS CodeDeploy 'Create deployment group' wizard.

Application
Application: cidddeploy
Compute type: EC2/On-premises

Deployment group name
Enter a deployment group name: cidddeploygraph

Service role
Enter a service role: arn:aws:ec2:ap-south-1:755957526811:instance/!-097d5916156cebd34

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 application revision to those. After deployment, the new instances are registered with a load balancer; instances from the original environment are deregistered and can be terminated.

Environment configuration
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: Name Value - optional: cidd
Add tag
+ Add tag group
On-premises instances
Matching instances: 1 unique matched instance. Click here for details

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

Install AWS CodeDeploy Agent:
 Never
 Only once
 Now and schedule updates

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

Load balancer

AWS Services CloudWatch

Developer Tools > CodePipeline > Pipelines > Create new pipeline

Add deploy stage Info

Step 1 Choose creation option Step 2 Choose pipeline settings Step 3 Add source stage Step 4 Add build stage Step 5 Add test stage Step 6 Add deploy stage Step 7 Review

Deploy - optional

Deploy provider Choose how you want to deploy your application or content. Choose the provider, and then provide the configuration details for that provider.

AWS CodeDeploy

Region Asia Pacific (Mumbai)

Input artifacts Choose an input artifact for this action. Learn more ?

BuildArtifact x Defined by: Build

No more than 100 characters

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

Q cideploy

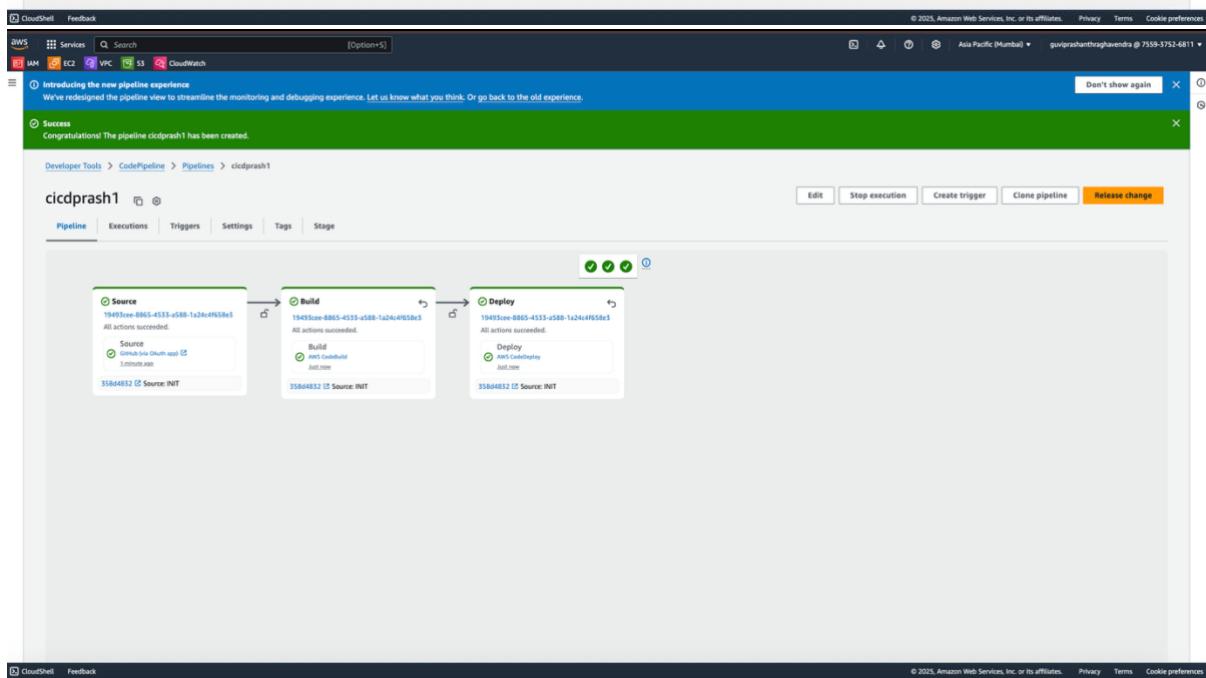
Deployment group Choose a deployment group that you have already created in the AWS CodeDeploy console. Or create a deployment group in the AWS CodeDeploy console and then return to this task.

Q cideploygroup

Configure automatic rollback on stage failure

Enable automatic retry on stage failure

Cancel Previous Skip deploy stage Next



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Introducing the new pipeline experience
We've redesigned the pipeline view to streamline the monitoring and debugging experience. Let us know what you think. Or go back to the old experience.

Success
Congratulations! The pipeline cicdprash1 has been created.

Developer Tools > CodePipeline > Pipelines > cicdprash1

cicdprash1

Pipeline Executions Triggers Settings Tags Stage

Execution ID Status Source revisions Trigger Started Duration Completed

19493ee Succeeded Source - 358d4832 INIT CreatePipeline - guvprashanthraghavendra Jun 12, 2025 9:03 PM (UTC+5:30) 1 minute 10 seconds Jun 12, 2025 9:04 PM (UTC+5:30)

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Amazon Linux 2023

```
Last login: Thu Jun 12 15:16:40 2025 from 13.233.177.3
[ec2-user@ip-172-31-29-9 ~]$ cd /var/www
[ec2-user@ip-172-31-29-9 www]$ ls
index.html
[ec2-user@ip-172-31-29-9 www]$ cd html/
[ec2-user@ip-172-31-29-9 html]$ ls
app.js package-lock.json package.json scripts
[ec2-user@ip-172-31-29-9 html]$
```

i-097d5916156cebd34 (cicd)
PublicIP: 65.1.12.18 PrivateIP: 172.31.29.9

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Create GitTrigger

The image shows two screenshots illustrating the creation of a GitTrigger.

Top Screenshot (GitHub Commit Dialog):

A GitHub commit dialog titled "Commit changes". The commit message field contains "Update start_server.sh". The "Commit directly to the main branch" radio button is selected. Below the message, there is an "Extended description" input field and two radio button options: "Commit directly to the main branch" (selected) and "Create a new branch for this commit and start a pull request". At the bottom are "Cancel" and "Commit changes" buttons.

Bottom Screenshot (AWS CloudWatch Pipeline Executions):

An AWS CloudWatch Pipeline interface showing the "cicdprash1" pipeline. The "Executions" tab is selected. It displays two execution entries:

Execution ID	Status	Source revisions	Trigger	Started	Duration	Completed
Be5TabS1	Succeeded	Source - #91829ef Update start_server.sh	Webhook - arn:aws:codepipeline:ap-south-1:755937526811:webhook:cicdprash1--Source--Prash09IntegrationDpl-51821452	Jan 12, 2025 9:09 PM (UTC+5:30)	1 minute 10 seconds	Jan 12, 2025 9:10 PM (UTC+5:30)
19493ce	Succeeded	Source - #58d68832 INIT	CreatePipeline - guvprashanthrghavendra	Jan 12, 2025 9:03 PM (UTC+5:30)	1 minute 10 seconds	Jan 12, 2025 9:04 PM (UTC+5:30)

```
  copying : node_16.20.2
  installed : v16.20.2 (with npm 8.19.4)

[Container] 2025/06/12 15:48:10.456984 Moving to directory /codebuild/output/src3729156270/src
[Container] 2025/06/12 15:48:10.456984 Cache is not defined in the BuildSpec
[Container] 2025/06/12 15:48:10.500239 Skip cache due to: no paths specified to be cached
[Container] 2025/06/12 15:48:10.500516 Registering with agent
[Container] 2025/06/12 15:48:10.529888 Phase found in YAML: 2
[Container] 2025/06/12 15:48:10.529888 Entering phase: INSTALL command
[Container] 2025/06/12 15:48:10.529983 INSTALL: commands
[Container] 2025/06/12 15:48:10.530194 Phase complete: DOWNLOAD_SOURCE State: SUCCEEDED
[Container] 2025/06/12 15:48:10.530209 Phase context status code: Message:
[Container] 2025/06/12 15:48:10.538822 Entering phase: INSTALL
[Container] 2025/06/12 15:48:10.621923 Running command echo "Installing dependencies"
Installing dependencies
[Container] 2025/06/12 15:48:10.628789 Running command npm install
up to date, audited 1 package in 122ms
Found 0 vulnerabilities

[Container] 2025/06/12 15:48:11.007432 Phase complete: INSTALL State: SUCCEEDED
[Container] 2025/06/12 15:48:11.007454 Phase context status code: Message:
[Container] 2025/06/12 15:48:11.049337 Entering phase: PRE_BUILD
[Container] 2025/06/12 15:48:11.051084 Phase complete: PRE_BUILD State: SUCCEEDED
[Container] 2025/06/12 15:48:11.051084 Phase context status code: Message:
[Container] 2025/06/12 15:48:11.080259 Entering phase: BUILD
[Container] 2025/06/12 15:48:11.083177 Running command echo "Build phase started"
Build phase started
[Container] 2025/06/12 15:48:11.090859 Running command npm run start
> AWSbuildtest@0.0.0 start
> node app/app.js

Hello, AWS CodeBuild!

[Container] 2025/06/12 15:48:11.414662 Phase complete: BUILD State: SUCCEEDED
[Container] 2025/06/12 15:48:11.414662 Phase context status code: Message:
[Container] 2025/06/12 15:48:11.453209 Entering phase: POST_BUILD
[Container] 2025/06/12 15:48:11.456857 Phase complete: POST_BUILD State: SUCCEEDED
[Container] 2025/06/12 15:48:11.456883 Phase context status code: Message:
[Container] 2025/06/12 15:48:11.542688 Expanding base directory path: .
[Container] 2025/06/12 15:48:11.542688 Expanding file list
[Container] 2025/06/12 15:48:11.545087 Expanding
[Container] 2025/06/12 15:48:11.548817 Expanding file paths for base directory .
[Container] 2025/06/12 15:48:11.548833 Assembling file list
[Container] 2025/06/12 15:48:11.548833 Expanding **
[Container] 2025/06/12 15:48:11.551083 Found 7 file(s)
[Container] 2025/06/12 15:48:11.554288 Set report auto-discover timeout to 5 seconds
[Container] 2025/06/12 15:48:11.554329 Expanding base directory path: .
[Container] 2025/06/12 15:48:11.554329 Expanding file list
[Container] 2025/06/12 15:48:11.557346 Expanding
[Container] 2025/06/12 15:48:11.568487 Expanding file paths for base directory .
[Container] 2025/06/12 15:48:11.568421 Assembling file list
[Container] 2025/06/12 15:48:11.568424 Expanding */
[Container] 2025/06/12 15:48:11.568424 Set report auto-discover report paths found
[Container] 2025/06/12 15:48:11.563584 Report auto-discover file discovery took 0.009296 seconds
[Container] 2025/06/12 15:48:11.563601 Phase complete: UPLOAD_ARTIFACTS State: SUCCEEDED
[Container] 2025/06/12 15:48:11.563667 Phase context status code: Message:
```