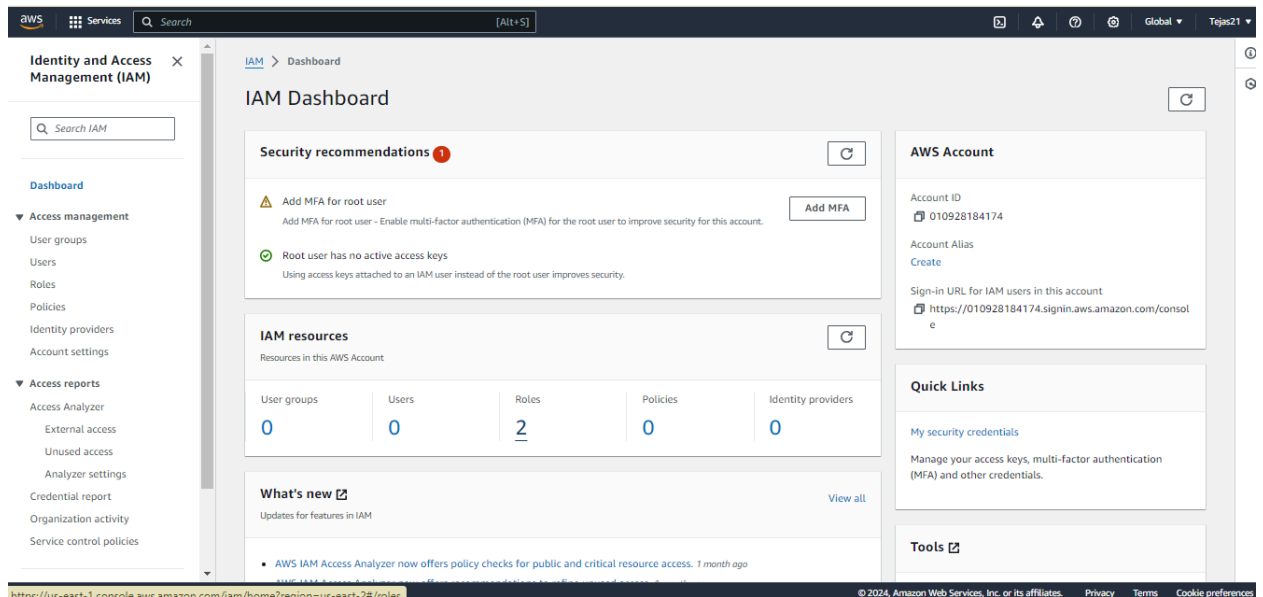
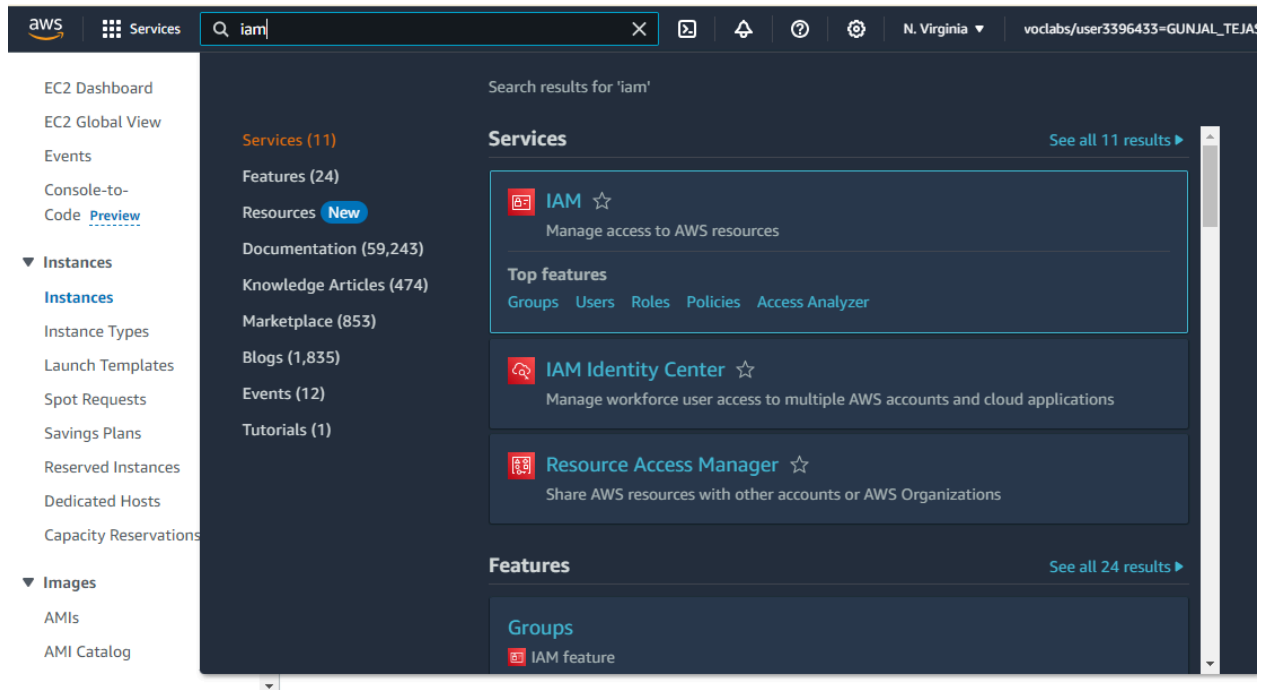


□ Creating two roles in AWS IAM for CI/CD pipeline setup



aws Services Search [Alt+S]

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles**
- Policies
- Identity providers
- Account settings

Access reports

- Access Analyzer
- External access
- Unused access
- Analyzer settings
- Credential report
- Organization activity
- Service control policies

IAM > Roles

Roles (2) 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.


Search

| <input type="checkbox"/> | Role name | Trusted entities | Last activity |
|--------------------------|---|--|---------------|
| <input type="checkbox"/> | AWSServiceRoleForSupport | AWS Service: support (Service-Linker) | - |
| <input type="checkbox"/> | AWSServiceRoleForTrustedAdvisor | AWS Service: trustedadvisor (Service-Linker) | - |


Roles Anywhere Info

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


Manage

 **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.

aws Services Search [Alt+S]

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.

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 EC2 Spot Fleet to request and terminate Spot Instances on your behalf.

aws

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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 Info

Permissions policies (1/945) Info

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

CodeDe

Filter by Type

All types

11 matches

| Policy name | Type | Description |
|---|-------------|--|
| <input checked="" type="checkbox"/> AmazonEC2RoleforAWSCodeDeploy | AWS managed | Provides EC2 access to S3 bucket to do... |
| <input type="checkbox"/> AmazonEC2RoleforAWSCodeDeployLimited | AWS managed | Provides EC2 limited access to S3 buck... |
| <input type="checkbox"/> AWSCodeDeployDeployerAccess | AWS managed | Provides access to register and deploy ... |
| <input type="checkbox"/> AWSCodeDeployFullAccess | AWS managed | Provides full access to CodeDeploy res... |
| <input type="checkbox"/> AWSCodeDeployReadOnlyAccess | AWS managed | Provides read only access to CodeDepl... |
| <input type="checkbox"/> AWSCodeDeployRole | AWS managed | Provides CodeDeploy service access to ... |
| <input type="checkbox"/> AWSCodeDeployRoleForCloudFormation | AWS managed | Provides CodeDeploy service access to ... |
| <input type="checkbox"/> AWSCodeDeployRoleForECS | AWS managed | Provides CodeDeploy service wide acc... |
| <input type="checkbox"/> AWSCodeDeployRoleForECSLimited | AWS managed | Provides CodeDeploy service limited a... |
| <input type="checkbox"/> AWSCodeDeployRoleForLambda | AWS managed | Provides CodeDeploy service access to ... |

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Step 2
Add permissions

Step 3
Name, review, and create

Role details

Role name

Enter a meaningful name to identify this role.

EC2CodeDeploy

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 letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: '-+=, @-/\[\]!#\$%&'()*;:'"~"

Step 1: Select trusted entities

Edit

Trust policy

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

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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.

CodeDeployRole

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 letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: _+=.,@-/()!#\$%^&*~"

Step 1: Select trusted entities

Edit

Trust policy

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

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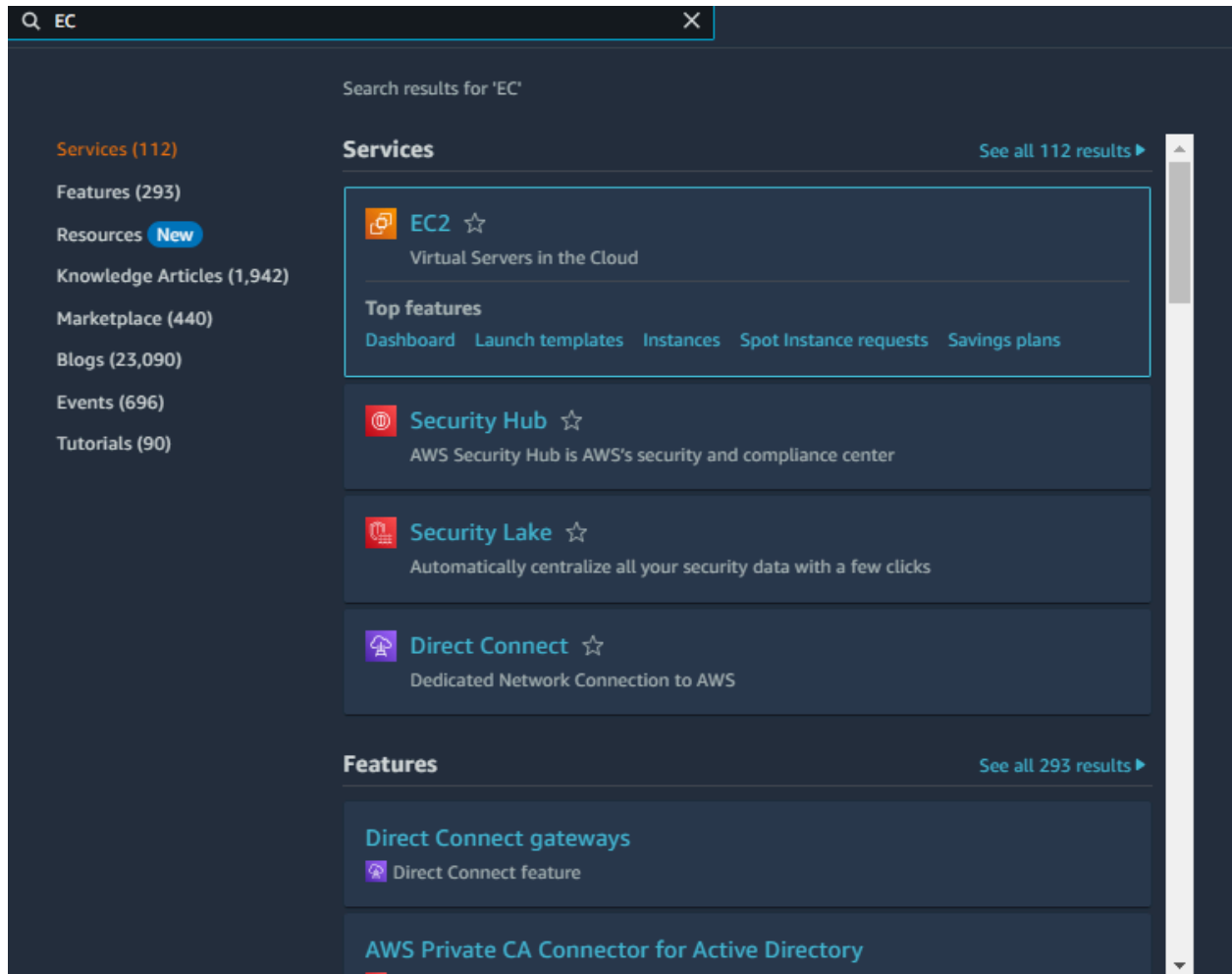
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□ Launching & Setting up EC2 Instance for Deployment



EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Instances (2) Info

Find Instance by attribute or tag (case-sensitive)

Instance state = running

Clear filters

| | Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone |
|--------------------------|------------|---------------------|----------------|---------------|-------------------|---------------|-------------------|
| <input type="checkbox"/> | practical | i-0bb4f0f6d6ff74928 | Running | t2.micro | 2/2 checks passed | View alarms + | us-east-2a |
| <input type="checkbox"/> | practical1 | i-06b9eda49cc6d9226 | Running | t2.micro | 2/2 checks passed | View alarms + | us-east-2a |

Select an instance

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Launch an instance Info

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

Name and tags Info

Name

AAR-CICD

Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Recents Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Linux

Browse more AMIs

Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.5.2...read more

ami-05c3dc660cb6907f0

Virtual server type (instance type)

t2.micro

Firewall (security group)

default

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage. 2 million I/Os

Cancel

Launch instance

Review commands

CloudShell

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Instance type

Info | Get advice

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0116 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand RHEL base pricing: 0.026 USD per Hour

Free tier eligible

All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

Key pair (login)

Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

AAR-DEMO

Create new key pair

Network settings

Info

Edit

Network

Info

Summary

Number of instances

Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.5.2...read more

ami-05c3dc660cb6907f0

Virtual server type (instance type)

t2.micro

Firewall (security group)

default

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance

Cancel

Launch instance

Review commands

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Network

Info

vpc-008c238273e437b32

Subnet

Info

No preference (Default subnet in any availability zone)

Auto-assign public IP

Info

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups)

Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

Common security groups info

Select security groups

default sg-005e9d856101cf758

VPC: vpc-008c238273e437b32

Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Configure storage

Info

Advanced

1x

8

GiB

gp3

Root volume (Not encrypted)

Summary

Number of instances

Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.5.2...read more

ami-05c3dc660cb6907f0

Virtual server type (instance type)

t2.micro

Firewall (security group)

default

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance

Cancel

Launch instance

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Advanced details

Info

Domain join directory

Info

Select

Create new directory

IAM instance profile

Info

EC2CodeDeploy

arn:aws:iam::010928184174:instance-profile/EC2CodeDeploy

Create new IAM profile

Hostname type

Info

IP name

DNS Hostname

Info

Enable IP name IPv4 (A record) DNS requests

Enable resource-based IPv4 (A record) DNS requests

Enable resource-based IPv6 (AAAA record) DNS requests

Instance auto-recovery

Info

Select

Shutdown behavior

Info

Stop

Stop - Hibernate behavior

Info

Summary

Number of instances

Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.5.2...read more

ami-05c3dc660cb6907f0

Virtual server type (instance type)

t2.micro

Firewall (security group)

default

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance

Cancel

Launch instance

Review commands

The top screenshot shows the AWS 'Launch instance' wizard. The 'User data - optional' field contains a script to install Ruby and set up a web server. The 'Summary' panel on the right shows the configuration: 1 instance, Amazon Linux 2023 AMI, t2.micro instance type, default security group, and 1 volume of 8 GiB. A 'Free tier' notification is also visible.

The bottom screenshot shows the 'Success' message for the instance launch. The 'Next Steps' section provides links to configure billing, connect to the instance, connect to a database, and create EBS snapshots.

□ Creating an application and deployment group in AWS CodeDeploy

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Q CodeArtifact

X

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Features (45) See all 45 results ▶

Resources **New**

Documentation (103,964)

Knowledge Articles (137)

Marketplace (5,843)

Blogs (2,966)

Events (52)

Tutorials (15)

Amazon Q Developer (Including Amazon CodeWhisperer) ☆
Build applications faster, and spend less time solving software development problems.

CodeCommit ☆
Store Code in Private Git Repositories

CodePipeline ☆
Release Software using Continuous Delivery

AWS Signer ☆
Ensuring trust and integrity of your code

Full repository analysis
Amazon CodeGuru feature

Pull request code review
Amazon CodeGuru feature

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On-premises instances

► Pipeline • CodePipeline

► Settings

Q Go to resource

Feedback

Developer Tools > CodeDeploy > Applications

Applications

Notify View details Deploy application Create application

Q

Application name Compute platform Created

No results

There are no results to display.

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Developer Tools

CodeDeploy

Applications

Create application

Create application

Application configuration

Application name

Enter an application name

AAR-CICD

100 character limit

Compute platform

Choose a compute platform

EC2/On-premises

Tags

Add tag

Cancel

Create application

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► Pipeline • CodePipeline

► Settings

Q Go to resource

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Application created

Create a notification rule for this application

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

Developer Tools

CodeDeploy

Applications

AAR-CICD

AAR-CICD

Notify

Delete application

Application details

Name

AAR-CICD

Compute platform

EC2/On-premises

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Create deployment group

Q

< 1 >

No deployment groups

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Developer Tools > CodeDeploy > Applications > AAR-CICD > Create deployment group

Create deployment group

Application

Application

AAR-CICD

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.

Deployment type

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Deployment type

Deployment type

Choose how to deploy your application

☒ In-place
Updates the instances in the deployment group with the latest application revisions. During a deployment, each instance will be briefly taken offline for its update.

☐ Blue/green
Replaces the instances in the deployment group with new instances and deploys the latest application revision to them. After instances in the replacement environment are registered with a load balancer, instances from the original environment are deregistered and can be terminated.

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

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Agent configuration with AWS Systems Manager info

Agent configuration with AWS Systems Manager info

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.

or

Load balancer

Select a load balancer to manage incoming traffic during the deployment process. The load balancer blocks traffic from

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□ Setting up a CICD pipeline for deploying applications on EC2 using GitHub.

The screenshot shows the AWS CodePipeline console interface for creating a new pipeline. The breadcrumb navigation is: Developer Tools > CodePipeline > Pipelines > Create new pipeline. The left sidebar shows the steps: Step 1: Choose pipeline settings (active), Step 2: Add source stage, Step 3: Add build stage, Step 4: Add deploy stage, and Step 5: Review.

Choose pipeline settings info
Step 1 of 5

Pipeline settings

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

No more than 100 characters

Pipeline type
☒ You can no longer create V1 pipelines through the console. We recommend you use the V2 pipeline type with improved release safety, pipeline triggers, parameterized pipelines, and a new billing model.

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

Variables
You can add variables at the pipeline level. You can choose to assign the value when you start the pipeline. Choosing this option requires pipeline type V2. [Learn more](#)
No variables defined at the pipeline level in this pipeline.

You can add up to 50 variables.
☒ The first pipeline execution will fail if variables have no default values.

Advanced settings

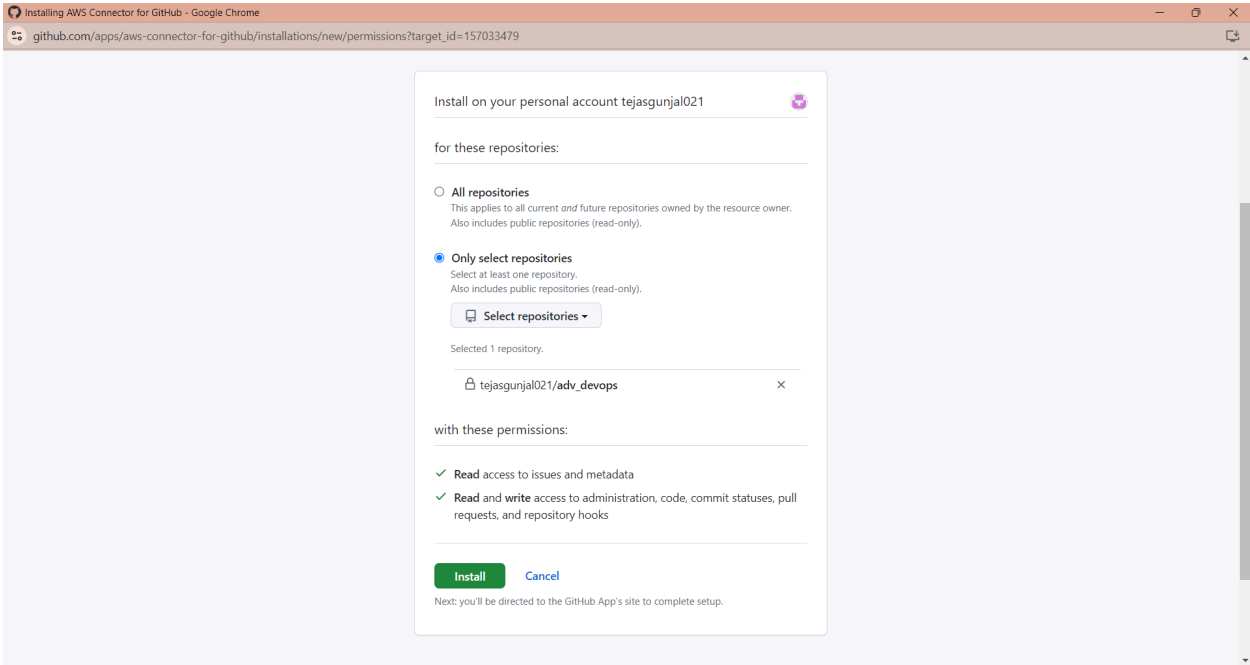
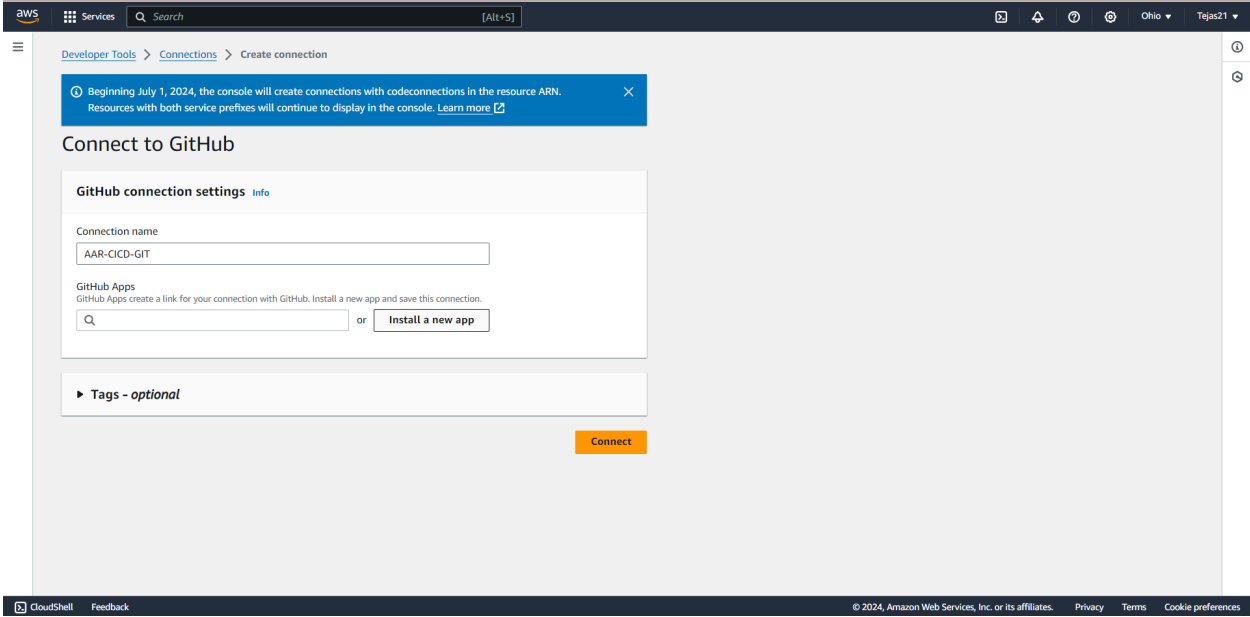
Artifact store
☒ Default location
Create a default S3 bucket in your account.
☐ Custom location
Choose an existing S3 location from your account in the same region and account as your pipeline

Encryption key
☒ Default AWS Managed Key
Use the AWS managed customer master key for CodePipeline in your account to encrypt the data in the artifact store.
☐ Customer Managed Key
To encrypt the data in the artifact store under an AWS KMS customer managed key, specify the key ID, key ARN, or alias ARN.

The screenshot shows the AWS CodePipeline console interface. The breadcrumb navigation is 'Developer Tools > CodePipeline > Pipelines > Create new pipeline'. The left sidebar shows a sequence of steps: Step 1: Choose pipeline settings, Step 2: Add source stage (highlighted), Step 3: Add build stage, Step 4: Add deploy stage, and Step 5: Review. The main content area is titled 'Add source stage' and is labeled as 'Step 2 of 5'. It contains a 'Source' section with a 'Source provider' dropdown set to 'GitHub (Version 2)'. Below this is a blue information box titled 'New GitHub version 2 (app-based) action' which explains that a connection must be created to use GitHub Apps. The 'Connection' section has a search input and a 'Connect to GitHub' button. The 'Repository name' section has a search input and a note about the format 'group/subgroup/project'. The 'Default branch' section has a search input and a note about its usage.

□ Connecting and setting up GitHub for CI/CD deployment on AWS CodeDeploy.

The screenshot shows the AWS CodePipeline console interface for creating a connection. The breadcrumb navigation is 'Developer Tools > Connections > Create connection'. The main content area is titled 'Create a connection'. It features a section 'Create GitHub App connection' with a 'Connection name' input field containing the text 'AAR-CICD-GIT'. Below this is a section 'Tags - optional' which is currently collapsed. An orange 'Connect to GitHub' button is located at the bottom right of the form area.



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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.

Trigger

Trigger type

Choose the trigger type that starts your pipeline.

☐ No filter

Starts your pipeline on any push and clones the HEAD.

☒ Specify filter

Starts your pipeline on a specific filter and clones the exact commit. Pipeline type V2 is required.

☐ Do not detect changes

Don't automatically trigger the pipeline.

Event type

Choose the event type for the trigger that starts your pipeline.

☒ Push

☐ Pull request

Filter type

Choose the filter type for the event that starts your pipeline.

☒ Branch

☐ Tags

Branches

You can specify the target branch or branches you are pushing to. Use a comma to specify multiple entries.

Include

Enter branches or patterns

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CodePipeline

Pipelines

Create new pipeline

Step 1

Choose pipeline settings

Step 2

Add source stage

Step 3

Add build stage

Step 4

Add deployment stage

Step 5

Review

Add build stage

Info

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.

Cancel

Previous

Skip build stage

Next

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Add build stage

Step 4

Add deployment stage

Step 5

Review

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

US East (Ohio)

Input artifacts

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

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.

AAR-CICD

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.

AAR-CICD-DF

☐ Configure automatic rollback on stage failure

Cancel

Previous

Next

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Success

Conratulations! The pipeline AAR-CICD-PIPELINE has been created.

Create a notification rule for this pipeline

Developer Tools > CodePipeline > Pipelines > AAR-CICD-PIPELINE

AAR-CICD-PIPELINE

Pipeline type: V2 Execution mode: QUEUED

Source

Succeeded

Pipeline execution ID: 79f449a3-8c09-4865-acaf-4b44c7b71275

Source

GitHub (Version 2)

Succeeded - Just now

abfb77d

View details

abfb77d Source: Add files via upload

Disable transition

Deploy

Failed

Pipeline execution ID: 79f449a3-8c09-4865-acaf-4b44c7b71275

Start rollback

Retry stage

Retry failed actions

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Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

IMDSv2

Required

Instance ARN

arn:aws:ec2:us-east-2:010928184174:instance/-06ee810b4baa23bd8

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

▼ Security details

IAM Role

EC2CodeDeploy

Owner ID

010928184174

Launch time

Sat Aug 10 2024 23:02:07 GMT+0530 (India Standard Time)

Security groups

sg-005e9d856101cf758 (default)

▼ Inbound rules

Filter rules

< 1 >

| Name | Security group rule ID | Port range | Protocol | Source | Security groups |
|------|------------------------|------------|----------|----------------------|-----------------|
| - | sgr-0d969b954754bdd69 | All | All | sg-005e9d856101cf758 | default |

▼ Outbound rules

Filter rules

< 1 >

| Name | Security group rule ID | Port range | Protocol | Destination | Security groups |
|------|------------------------|------------|----------|-------------|-----------------|
| - | sgr-00b02179951be2472 | All | All | 0.0.0.0/0 | default |

https://us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#SecurityGroups:securityGroupid=sg-005e9d856101cf758

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EC2 > Security Groups > sg-005e9d856101cf758 - default > Edit inbound rules

Edit inbound rules

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules

Security group rule ID

Type

Protocol

Port range

Source

Description - optional

Delete

sgr-0d969b954754bdd69

All traffic

All

All

Custom

Delete

-

HTTP

TCP

80

Anywhere...

sg-005e9d856101cf758

Delete

-

SSH

TCP

22

Anywhere...

0.0.0.0/0

Delete

-

0.0.0.0/0

Delete

Add rule

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

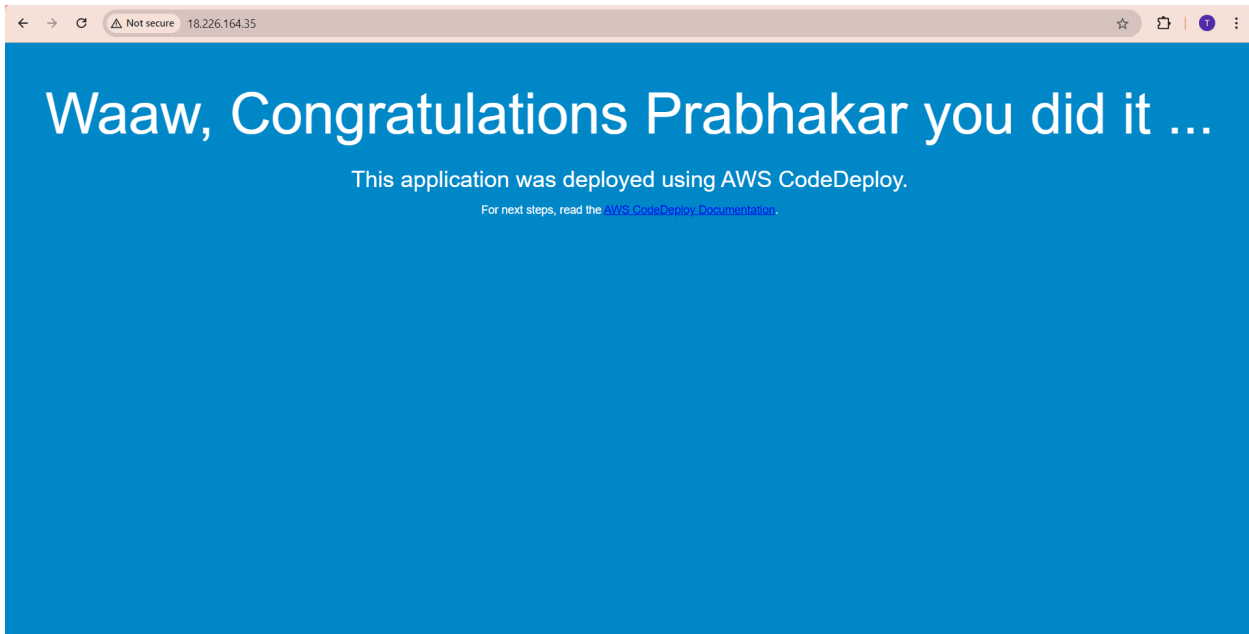
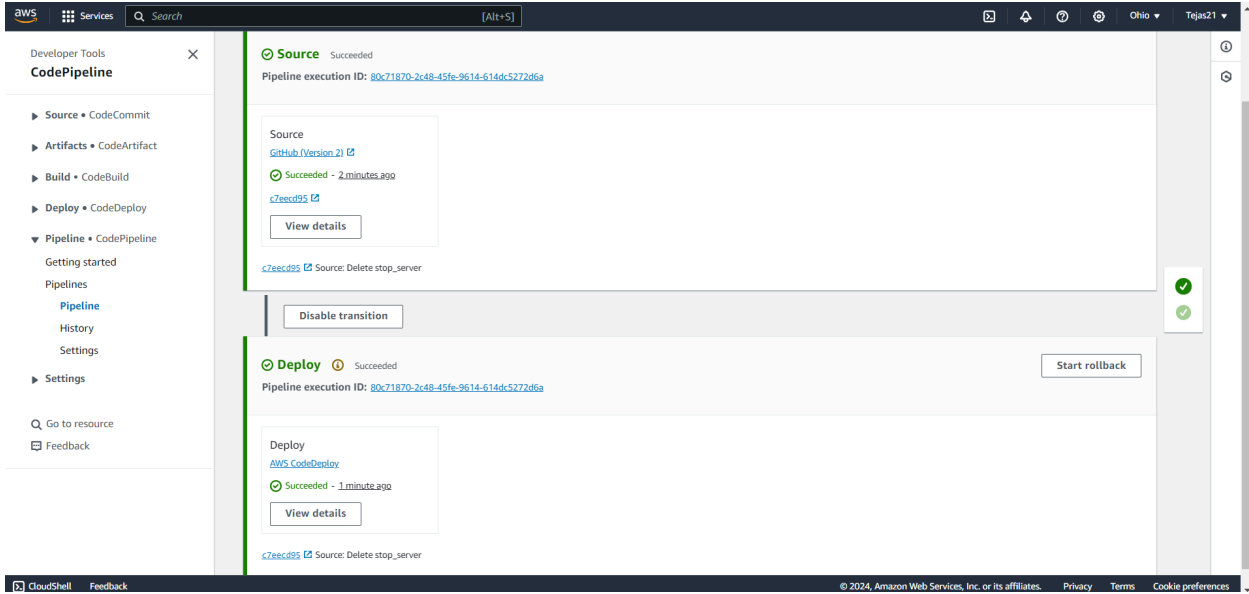
Cancel

Preview changes

Save rules

CloudShell Feedback

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- After committing changes in GitHub, the pipeline automatically starts deploying the updates, and the changes are applied without any manual intervention.

