

## Experiment No 2:

Aim: To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.

Experiment No :- 2

Aim :- To Build a Application using Aws codeBuild and Deploy on S3/SEBS using AWS codepipeline Deploy Sample Application on EC2 instance using AWS CodeDeploy

Theory :-

AWS codepipeline

- AWS codepipeline is a fully managed continuous integration & continuous delivery service that automates the build, test & Deploy phases of your release process,
- It allows you to define a sequence of actions, such as source retrieval, building the code, running tests, & deploying the application.
- It integrates with other AWS services, making it a versatile tool for automating application deployments.

AWS CodeBuild

- AWS codeBuild is a fully managed build service in the cloud.
- It compiles your source code, runs unit tests & produces artifacts that are ready to deploy.
- CodeBuild scales continuously and processes multiple builds concurrently, so your builds are not left waiting in a queue.

FOR EDUCATIONAL USE

## AWS code Deploy

- AWS code Deploy automates application deployment, to various compute services such as EC2, Lambda & on-premises servers.
- It handles the complexity of updating your application across multiple instances, with zero downtime.
- Deployment Types
  - i] In-place Deployment: Update the application on each instance in place.
  - ii] Blue/Green Deployment: Deploys the application on new instances, allowing to test new version before routing traffic to it.

## Conclusion :-

This experiment demonstrates the integration of various AWS services to build a robust CI/CD pipeline. By automating the build, test & deployment process using AWS codeBuild, codePipeline & codeDeploy, we can achieve faster release, reduce errors & improve the overall quality of applications.

## ● Create Two roles:

FIRST

The screenshot shows the AWS IAM console search results for 'IAM'. The main panel displays services like IAM, IAM Identity Center, and Resource Access Manager. A sidebar on the left lists various AWS features and documentation.

  

The screenshot shows the 'Create role' wizard Step 1: 'Select trusted entity'. It lists three options: 'AWS SERVICE', 'AWS Lambda', and 'AWS Lambda@edge'. The 'AWS SERVICE' option is selected.

  

The screenshot shows the 'Create role' wizard Step 2: 'Add permissions'. It lists several AWS managed policies under the 'Permissions policies' section. The 'AmazonEC2RoleforAWSCodeDeploy' policy is selected.

  

The screenshot shows the 'Create role' wizard Step 3: 'Name, review, and create'. The role name 'manorath' is entered, and the 'Next Step' button is visible at the bottom right.

Roles | IAM | Global

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

Just a moment... LeetCode Manorath Itai - man... GeeksforGeeks

AWS Services Search [Alt+S]

## Identity and Access Management (IAM)

View role Create role

### Roles (3) 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
<a href="#">AWSServiceRoleForSupport</a>	AWS Service: support (Service-Linker)	-
<a href="#">AWSServiceRoleForTrustedAdvisor</a>	AWS Service: trustedadvisor (Service)	-
<a href="#">EC2codeDeploy</a>	AWS Service: ec2	-

### 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 standards that you use for your AWS services.

**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.

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ENG JN 19:35:59 12-08-2024

## First Role is created

## Second Role

The screenshot shows the 'Create role' wizard in the AWS IAM console. The current step is 'Step 1: Select trusted entity'. The 'Trusted entity type' section is open, showing five options:

- AWS service: Allows AWS services like EC2, Lambda, or others to perform actions in this account.
- AWS account: Allows 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: Creates a custom trust policy to enable others to perform actions in this account.

The 'Use case' section is also visible, showing 'CodeDeploy' selected as the service or use case. The bottom right corner shows 'Cancel' and 'Next' buttons.

  

The screenshot shows the 'Create role' wizard in the AWS IAM console. The current step is 'Step 2: Add permissions'. The 'Add permissions' section is open, showing a table with one item:

Policy name	Type
AWSCodeDeployRole	AWS managed

The bottom right corner shows 'Cancel', 'Previous', and 'Next' buttons.

  

The screenshot shows the 'Create role' wizard in the AWS IAM console. The current step is 'Step 3: Name, review, and create'. The confirmation message 'Role EC2codeDeploy created.' is displayed at the top. The bottom right corner shows 'Cancel', 'Previous', and 'Next' buttons.

**Name, review, and create**

**Step 1 Select trusted entity**

**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**

**Trust policy**

```
1 * [ "Version": "2012-10-17", "Statement": [ { "Sid": "", "Effect": "allow", "Principal": { "Service": [ "codestar-code-deploy.amazonaws.com" ] }, "Action": [ "sts:AssumeRole" ] } ] }
```

**Identity and Access Management (IAM)**

**Roles (4) 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
AWSServiceRoleForSupport	AWS Service: support (Service-Linker)	-
AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service)	-
CodeDeployRole	AWS Service: codedeploy	-
EC2codeDeploy	AWS Service: ec2	-

**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.

Two Roles have successfully been created.

Now, we have to create EC2 instance same as EXP1

The screenshot shows the AWS EC2 Instances page with two running t3.micro instances listed:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
website	i-0c626571b222761aa	Running	t3.micro	2/2 checks passed	View alarms +	eu-north-1b	ec2-13-123.45.67.89
AAR-DEMO	i-0924ba45aa8f0db69	Running	t3.micro	Initializing	View alarms +	eu-north-1b	ec2-13-123.45.67.89

A modal window titled "Select an instance" is open, displaying the same two instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
website	i-0c626571b222761aa	Running	t3.micro	2/2 checks passed	View alarms +	eu-north-1b	ec2-13-123.45.67.89
AAR-DEMO	i-0924ba45aa8f0db69	Running	t3.micro	Initializing	View alarms +	eu-north-1b	ec2-13-123.45.67.89

Below the instances table, there is a search bar with the text "codepipeline".

Create application | CodeDeploy

eu-north-1.console.aws.amazon.com/codesuite/codedeploy/application/new?region=eu-north-1

How would you rate your experience with this service console? ★ ★ ★ ★ ★

AWS Services Search [Alt+S]

Create application

Application configuration

Application name  
Enter an application name  
 100 character limit

Compute platform  
Choose a compute platform

Tags

Cancel



Create deployment group | CodeDeploy

eu-north-1.console.aws.amazon.com/codesuite/codedeploy/applications/AAR-DEMO/deployment-groups/new?region=eu-north-1

How would you rate your experience with this service console? ★ ★ ★ ★ ★

AWS Services Search [Alt+S]

Create deployment group

Application

Application  
AAR-DEMO  
Compute type  
EC2/On-premises

Deployment group name

Enter a deployment group name  
 100 character limit

Service role

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Create deployment group | CodeDeploy

eu-north-1.console.aws.amazon.com/codesuite/codedeploy/applications/AAR-DEMO/deployment-groups/new?region=eu-north-1

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How would you rate your experience with this service console? ★ ★ ★ ★ ★

AWS Services Search [Alt+S]

**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::010928207871:role/CodeDeployRole

**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**

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Create deployment group | CodeDeploy

eu-north-1.console.aws.amazon.com/codesuite/codedeploy/applications/AAR-DEMO/deployment-groups/new?region=eu-north-1

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How would you rate your experience with this service console? ★ ★ ★ ★ ★

AWS Services Search [Alt+S]

**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**

Select a load balancer to manage incoming traffic during the deployment process. The load balancer blocks traffic from each instance while it's being deployed and allows traffic to it again after the deployment succeeds.

Enable load balancing

Load balancer type

Application Load Balancer or Network Load Balancer

Classic Load Balancer

Advanced

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Create deployment group | CodeDeploy

eu-north-1.console.aws.amazon.com/codesuite/codedeploy/applications/AAR-DEMO/deployment-groups/new?region=eu-north-1

How would you rate your experience with this service console? ★ ★ ★ ★ ★

AWS Services Search [Alt+S]

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 AAR-DEMO Remove tag

Add tag + Add tag group

On-premises instances

Matching instances

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AAR-CICD-DP | CodeDeploy

eu-north-1.console.aws.amazon.com/codesuite/codedeploy/applications/AAR-DEMO/deployment-groups/AAR-CICD-DP?region=eu-north-1&tags-meta=eyJmlj7fSwicyl6e30slm4lOjlw...

How would you rate your experience with this service console? ★ ★ ★ ★ ★

AWS Services Search [Alt+S]

CodeDeploy

Source • CodeCommit

Artifacts • CodeArtifact

Build • CodeBuild

Deploy • CodeDeploy

- Getting started
- Deployments
- Applications
  - Application
    - Settings
  - Deployment configurations
  - On-premises instances
- Pipeline • CodePipeline
- Settings

Deployment group created

Developer Tools > CodeDeploy > Applications > AAR-DEMO > AAR-CICD-DP

AAR-CICD-DP

Edit Delete Create deployment

Deployment group details

Deployment group name	AAR-CICD-DP	Application name	AAR-DEMO	Compute platform	EC2/On-premises
Deployment type	In-place	Service role ARN	arn:aws:iam::010928207871:role/CodeDeployRole	Deployment configuration	CodeDeployDefault.AllAtOnce
Rollback enabled	False	Agent update scheduler	Learn to schedule update in AWS Systems Manager		

Environment configuration: Amazon EC2 instances

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Screenshot of the AWS CodePipeline console showing the Pipelines page and the Create new pipeline wizard.

**Pipelines Page:**

- The URL is [eu-north-1.console.aws.amazon.com/codesuite/codepipeline/pipelines?region=eu-north-1&pipelines-meta=eyJmJp7InRleHQjOiiifSwicyl6eyJwcm9wZXJ0eSI6InVwZGF0ZWQiLClkaXJlY3R...](https://eu-north-1.console.aws.amazon.com/codesuite/codepipeline/pipelines?region=eu-north-1&pipelines-meta=eyJmJp7InRleHQjOiiifSwicyl6eyJwcm9wZXJ0eSI6InVwZGF0ZWQiLClkaXJlY3R...)
- The page title is "Pipelines | CodePipeline | eu-north-1".
- The sidebar shows "CodePipeline" selected under "Developer Tools".
- The main content area shows a message: "Introducing the new V2 pipeline type with improved release safety, pipeline triggers, parameterized pipelines, and a new billing model. [Learn more](#)".
- Buttons include "Create pipeline", "Notify", "View history", "Release change", and "Delete pipeline".
- A search bar and a table with columns: Name, Latest execution status, Latest source revisions, Latest execution started, and Most recent executions. The table displays "No results" and "There are no results to display."

**Create new pipeline Wizard (Step 2 of 5):**

- The URL is [eu-north-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=eu-north-1](https://eu-north-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=eu-north-1)
- The page title is "Create new pipeline | CodePipeline | eu-north-1".
- The sidebar shows "Choose pipeline settings" selected under "Step 1".
- The main content area is titled "Add source stage" with a link to "Info".
- On the left, a sidebar lists steps: Step 1 (Choose pipeline settings), Step 2 (Add source stage), Step 3 (Add build stage), Step 4 (Add deploy stage), Step 5 (Review).
- Source Stage:**
  - "Source provider": GitHub (Version 2)
- Trigger:**
  - "Trigger type": No filter (selected)
  - Options:
    - 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

Create connection | CodePipeline | eu-north-1 - Google Chrome  
eu-north-1.console.aws.amazon.com/codesuite/settings/connections/create?origin=codepipeline&providers=github&region=eu-north-1

Developer Tools > Connections > Create connection

Create a connection [Info](#)

Create GitHub App connection [Info](#)

Connection name  
AAR-CI\_CD

Tags - optional

Connect to GitHub

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Installing AWS Connector for GitHub - Google Chrome  
github.com/apps/aws-connector-for-github/installations/new/permissions?target\_id=119103466

Type to search

Install AWS Connector for GitHub

Install on your personal account MANO-RATH

for these repositories:

All repositories  
This applies to all current and future repositories owned by the resource owner.  
Also includes public repositories (read-only).

Only select repositories  
Select at least one repository.  
Also includes public repositories (read-only).  
Select repositories  
Selected 1 repository  
MANO-RATH/MASHFitness

with these permissions:

Read access to issues and metadata

Read and write access to administration, code, commit statuses, pull requests, and repository hooks

Install Cancel

Next you'll be directed to the GitHub App's site to complete setup.

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Create connection | CodePipeline | eu-north-1 - Google Chrome  
eu-north-1.console.aws.amazon.com/codesuite/settings/connections/create/github?region=eu-north-1&installationId=53720647

aws Services Search [Alt+S] Stockholm manorath

Developer Tools > Connections > Create connection

Beginning July 1, 2024, the console will create connections with codeconnections in the resource ARN. Resources with both service prefixes will continue to display in the console. Learn more X

### Connect to GitHub

**GitHub connection settings** Info

Connection name: AAR-CICD-PIPELINE

GitHub Apps: GitHub Apps create a link for your connection with GitHub. Install a new app and save this connection.  
Q 53720647 X or Install a new app

Tags - optional

Connect

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Create new pipeline | CodePipe eu-north-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=eu-north-1

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Step 5 Review

New GitHub version 2 (app-based) action  
To add a GitHub version 2 action in CodePipeline, you create a connection, which uses GitHub Apps to access your repository. Use the options below to choose an existing connection or create a new one. Learn more

Connection  
Choose an existing connection that you have already configured, or create a new one and then return to this task.  
Q arn:aws:codeconnections:eu-north-1:010928207871:connection/86793697-X or Connect to GitHub

Ready to connect  
Your GitHub connection is ready for use.

Repository name  
Choose a repository in your GitHub account.  
Q MANO-RATH/MASHFitness X

You can type or paste the group path to any project that the provided credentials can access. Use the format 'group/subgroup/project'.

Default branch  
Default branch will be used only when pipeline execution starts from a different source or manually started.  
Q main X

main  
Choose the output artifact format.  
 CodePipeline default AWS CodePipeline uses the default zip format for artifacts  
 Full clone AWS CodePipeline passes metadata about the repository

Create new pipeline | CodePipeline

eu-north-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=eu-north-1

Just a moment... LeetCode Manorath Ital - man... GeeksforGeeks

aws Services Search [Alt+S]

Developer Tools > CodePipeline > Pipelines > Create new pipeline

Step 1 Choose pipeline settings

Step 2 Add source stage

Step 3 Add build stage

Step 4 Add deploy stage

Step 5 Review

Add build stage 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



Create new pipeline | CodePipeline

eu-north-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=eu-north-1

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aws Services Search [Alt+S]

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 5 of 5

**Step 1: Choose pipeline settings**

Pipeline settings

Pipeline name: AAR-CI\_CD-pipeline

Pipeline type: V2

Execution mode: QUEUED

Artifact location: A new Amazon S3 bucket will be created as the default artifact store for your pipeline

Service role name: AWSCodePipelineServiceRole-eu-north-1-AAR-CI\_CD-pipeline



Create new pipeline | CodePipe

eu-north-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=eu-north-1

Build action provider

Build stage

No build

Step 4: Add deploy stage

Deploy action provider

Deploy action provider

AWS CodeDeploy

ApplicationName

AAR-CICD

DeploymentGroupName

AAR-CICD

Configure automatic rollback on stage failure

Disabled

Create pipeline

Create new pipeline | CodePipe

eu-north-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=eu-north-1

Add build stage

Step 4

Add deploy stage

Step 5

Review

Deploy

Deploy provider

Choose how you deploy to instances. Choose the provider, and then provide the configuration details for that provider.

AWS CodeDeploy

Region

Europe (Stockholm)

Input artifacts

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

SourceArtifact

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-DEMO

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-DP

Configure automatic rollback on stage failure

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AAR-CICD-pipeline | CodePipeline

eu-north-1.console.aws.amazon.com/codesuite/codepipeline/pipelines/AAR-CICD-pipeline/view?region=eu-north-1

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Developer Tools CodePipeline Success Congratulations! 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 In progress Pipeline execution ID: ab875d9b-11d6-4359-9fb5-b0937ecd79f5

Source In progress - Just now View details

Disable transition

Deploy Didn't Run Start rollback

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AAR-CICD-pipeline | CodePipeline

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-053310102e3a7f6aa

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## Edit Inbound rules

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

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-09ccc456b43447de3	All traffic	All	All	Custom	
-	HTTP	TCP	80	Anyw...	
-	SSH	TCP	22	Anyw...	

Add rule

⚠ Rules with source of 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

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AAR-CI\_CD-pipeline | CodePipeline

SecurityGroup | EC2 | eu-north-

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#SecurityGroup:group-id=sg-053310102e3a7f6aa

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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 Snapshots Lifecycle Manager CloudShell Feedback

Inbound security group rules successfully modified on security group (sg-053310102e3a7f6aa | default)

Details

EC2 > Security Groups > sg-053310102e3a7f6aa - default

sg-053310102e3a7f6aa - default

Actions

Details

Security group name	default	Security group ID	sg-053310102e3a7f6aa	Description	default VPC security group
Owner	010928207871	Inbound rules count	3 Permission entries	Outbound rules count	1 Permission entry
VPC ID	vpc-09fb3f72e6abd6604				

Inbound rules Outbound rules Tags

Inbound rules (3)

Search

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Add files via upload - MAN

Instance details | EC2 | eu-

ModifyInboundSecurityGroupRules:securityGroupId=sg-07bea195b3cf98fe2

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aws Services Search [Alt+S]

Edit inbound rules info

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

Inbound rules Info

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-0d58b65d5b794c061	HTTP	TCP	80	Anyw...	0.0.0.0/0
sgr-0f2bf90a1a282260	HTTPS	TCP	443	Custom	0.0.0.0/0
sgr-05727835a936fd306	SSH	TCP	22	Custom	0.0.0.0/0

Add rule

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# Waaw, Congratulations Prabhakar you did it ...

This application was deployed using AWS CodeDeploy.

For next steps, read the [AWS CodeDeploy Documentation](#).