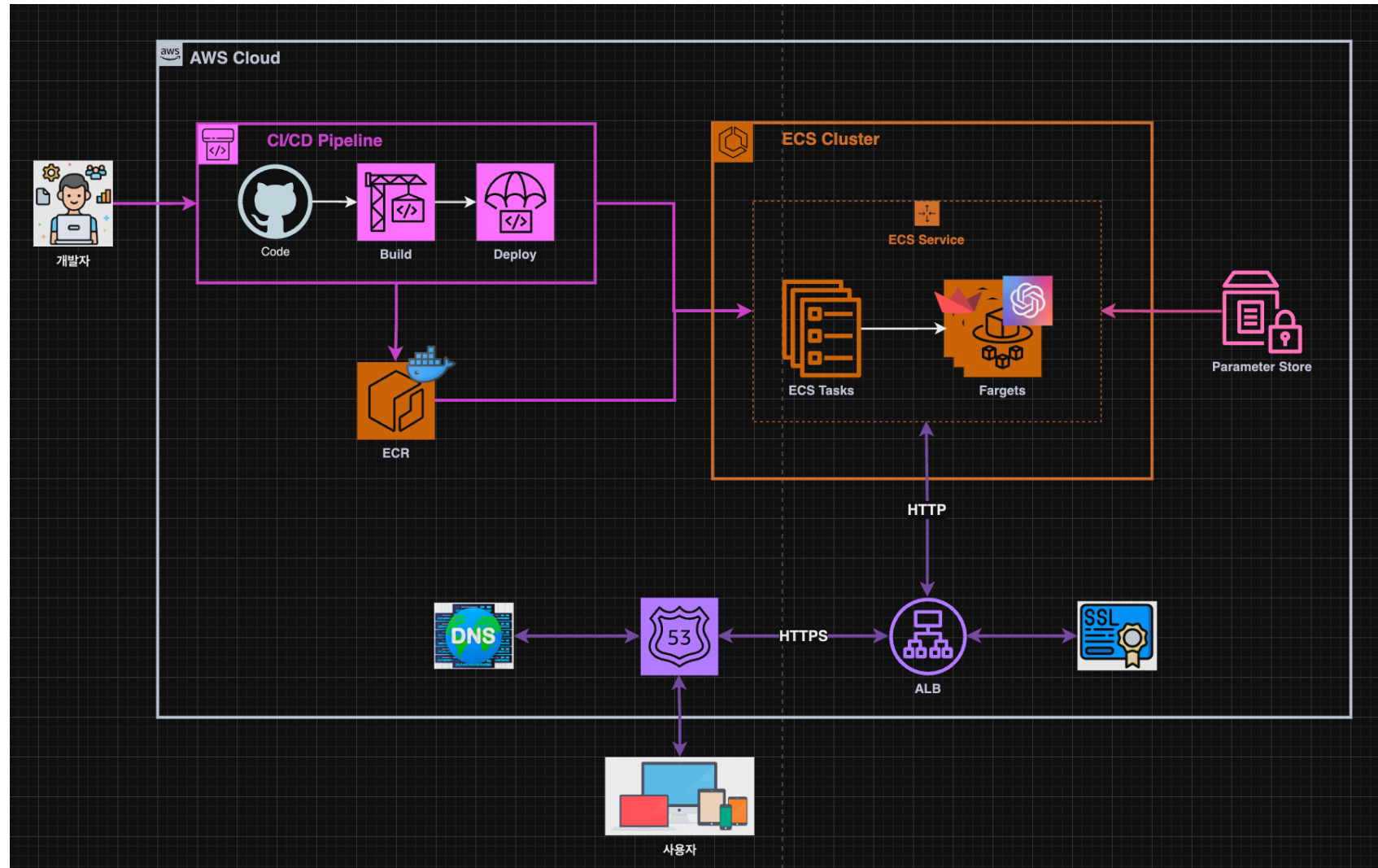
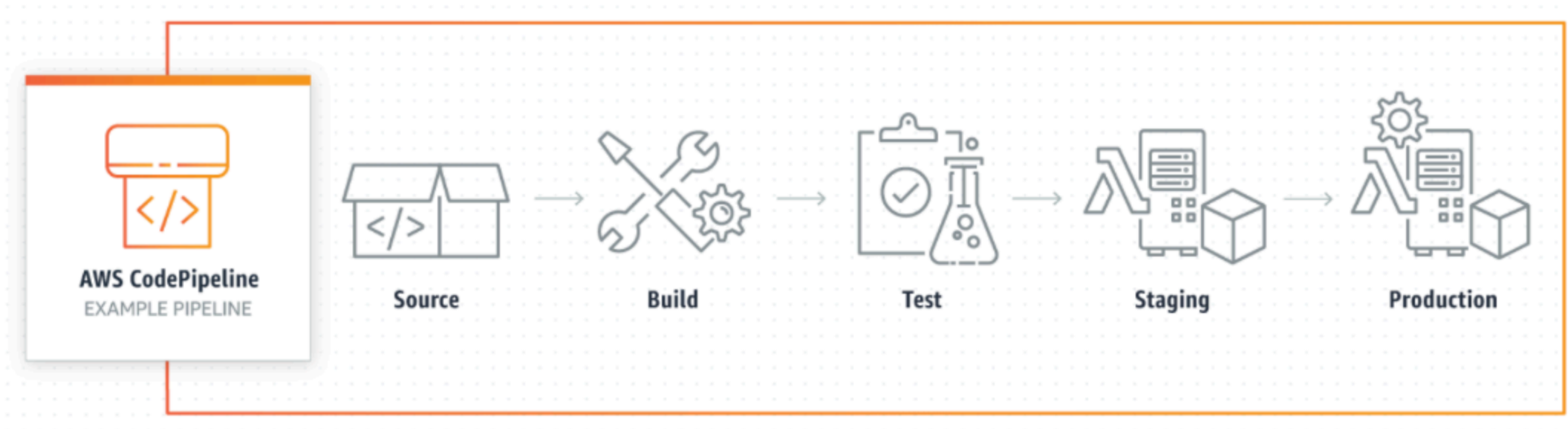


# Architecture



# AWS CodePipeline

- AWS CodePipeline은 빠르고 안정적인 애플리케이션 및 인프라 업데이트를 위해 릴리스 파이프라인을 자동화하는 데 도움이 되는 완전관리형의 지속적 전달 서비스입니다.



## AWS CodePipeline 요금

AWS CodePipeline에는 선결제 금액이나 약정이 없습니다.

- **v1 유형 파이프라인** : 활성 파이프라인 (30일 이상 존재하고 해당 월에 코드 변경이 한 번 이상 실행되는 파이프라인)당 월 1.00 USD가 부과됩니다. 파이프라인 생성 후 처음 30일 동안은 무료입니다.
- **v2 유형 파이프라인** : 작업 실행 분당 0.002 USD가 부과됩니다. 수동 승인 및 사용자 지정 작업 유형을 제외한 모든 작업 유형에 대해 요금이 부과됩니다.

## AWS 프리 티어

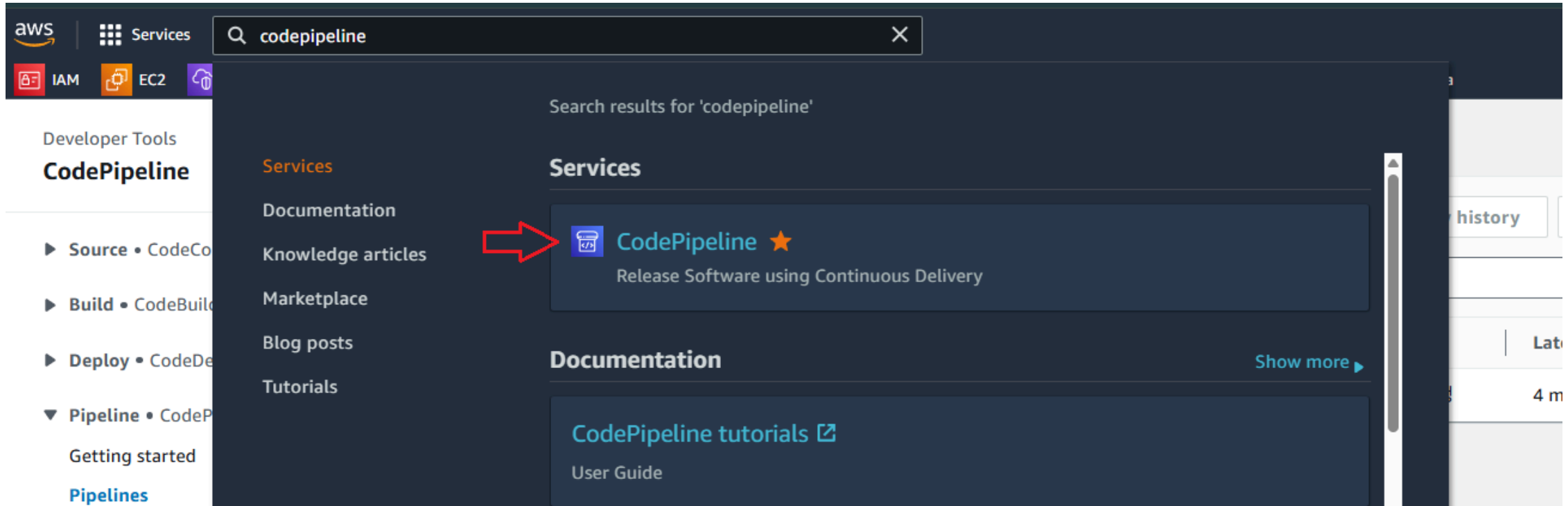
CodePipeline은 AWS 프리 티어의 일부로 신규 및 기존 고객에게 다음을 제공합니다.

- **V1 유형 파이프라인** : V1 유형 파이프라인에 대한 매월 1개의 무료 활성 파이프라인
- **V2 유형 파이프라인** : 매월 무료 작업 실행 시간 100분 무료 작업 실행. 사용하지 않은 시간(분)은 다음 달로 이월되지 않습니다.

## 추가 요금

Amazon S3에 파이프라인 아티팩트를 저장하고 액세스하는 경우와 파이프라인에 연결한 기타 AWS 및 서드 파티 서비스에서 작업을 트리거하는 경우 추가 요금이 발생할 수 있습니다.

## 단계1: aws pipeline 접속



## 단계2: Create pipeline

Developer Tools

CodePipeline

▶ Source • CodeCommit

▶ Build • CodeBuild

▶ Deploy • CodeDeploy

▼ Pipeline • CodePipeline

Getting started

Pipelines

Account metrics

▶ Settings

Developer Tools > CodePipeline > Pipelines

Pipelines Info

View history

Release change

Delete pipeline

Create pipeline

Search

< 1 > ⚙

Name	Latest execution status	Latest source revisions	Latest execution started	More
Investment_crypto-pipeline	✔ Succeeded	Source – 4830a7a8 <a href="#">🔗</a> : elt 수정	4 months ago	✔ ✔ Vi de

## Choose creation option [Info](#)

Step 1 of 7

### Category

☐ Deployment

☐ Continuous Integration

☐ Automation

☒ Build custom pipeline

Cancel

Next

ecs-streamlit-pipeline

### Pipeline name

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

ecs-streamlit-pipeline

No more than 100 characters

### Execution mode [Info](#)

Choose the execution mode for your pipeline. This determines how the pipeline is run.

- ☐ Superseded
- ☒ Queued
- ☐ Parallel



## 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

AWSCodePipelineServiceRole-ap-northeast-2-ecs-streamlit-pipelin

Type your service role name



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

- Add Source

### Source provider

This is where you stored your input artifacts for your pipeline. Choose the provider and then provide the connection details.

GitHub (via GitHub App) ▼

### Connection

Choose an existing connection that you have already configured, or create a new one and then return to this task.

🔍 arn:aws:codeconnections:ap-northeast-2:426653742146:connection ✕



or

**Connect to GitHub**

### Repository name

Choose a repository in your GitHub account.

🔍 good593/lecture\_aws\_for\_ai ✕

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.

🔍 main ✕


## 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. [Learn more](#) 

☒ Enable automatic retry on stage failure

## Webhook events

Webhook - *optional*

☒ Start your pipeline on push and pull request events.

▶ **Webhook event filters - *optional***

Starts your pipeline on a specific event.

Remove filters

Cancel

Previous

Next

- Add Build

### Build provider

Choose the tool you want to use to run build commands and specify artifacts for your build action.

☐ 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.

🔍 ecs-streamlit-build



or

Create project

☐ 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 (Seoul)

### Input artifacts

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

SourceArtifact X  
Defined by: Source

☒ Enable automatic retry on stage failure

Cancel

Previous

Skip build stage

Next

- Add test stage(생략)

## Add test stage Info

Step 5 of 7

### Test - *optional*

Test provider

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

☒ Enable automatic retry on stage failure

CancelPreviousSkip test stageNext

- Add Deploy

### Deploy provider

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

Amazon ECS

### Region

Asia Pacific (Seoul)

### Input artifacts

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

BuildArtifact ✕  
Defined by: Build

No more than 100 characters

- 기존에 만든 ECS 적용

**Cluster name**

Choose a cluster that you have already created in the Amazon ECS console. Or create a cluster in the Amazon ECS console and then return to this task.

Q ecs-streamlit-cluster



**Service name**

Choose a service that you have already created in the Amazon ECS console for your cluster. Or create a new service in the Amazon ECS console and then return to this task.

Q ecs-streamlit-service





- buildspec.yml의 artifacts file명 작성

```
artifacts:  
  files:  
    - imagedefinitions.json
```

Image definitions file - *optional*

Enter the JSON file that describes your service's container name and the image and tag.

imagedefinitions.json

### Deployment timeout - *optional*

Enter the timeout in minutes for the deployment action.

☒ Configure automatic rollback on stage failure

☐ Enable automatic retry on stage failure

Cancel

Previous

Skip deploy stage

Next

- Create Pipeline

ServiceName

ecs-streamlit-service

FileName

imagedefinitions.json

Configure automatic rollback on stage failure

Enabled

Enable automatic retry on stage failure

Disabled

Cancel

Previous

Create pipeline

## 단계3: CodePipeline 작동성공

Developer Tools

**CodePipeline**

▶ Source • CodeCommit

▶ Build • CodeBuild

▶ Deploy • CodeDeploy

▼ Pipeline • CodePipeline

Getting started

Pipelines

Pipeline

Action details [New](#)

[History](#)

Developer Tools > CodePipeline > Pipelines > [ecs-streamlit-pipeline](#) > e5c5f846

Pipeline execution: e5c5f846

Rerun

Stop execution

< Previous execution

Next execution >

✓ ✓ ✓

i

✓ Source

All actions succeeded.

Source

✓ GitHub (via GitHub App) [↗](#)

5 minutes ago

✓ Build

All actions succeeded.

Build

✓ AWS CodeBuild [↗](#)

3 minutes ago

✓ Deploy

All actions succeeded.

Deploy

✓ Amazon ECS [↗](#)

Just now