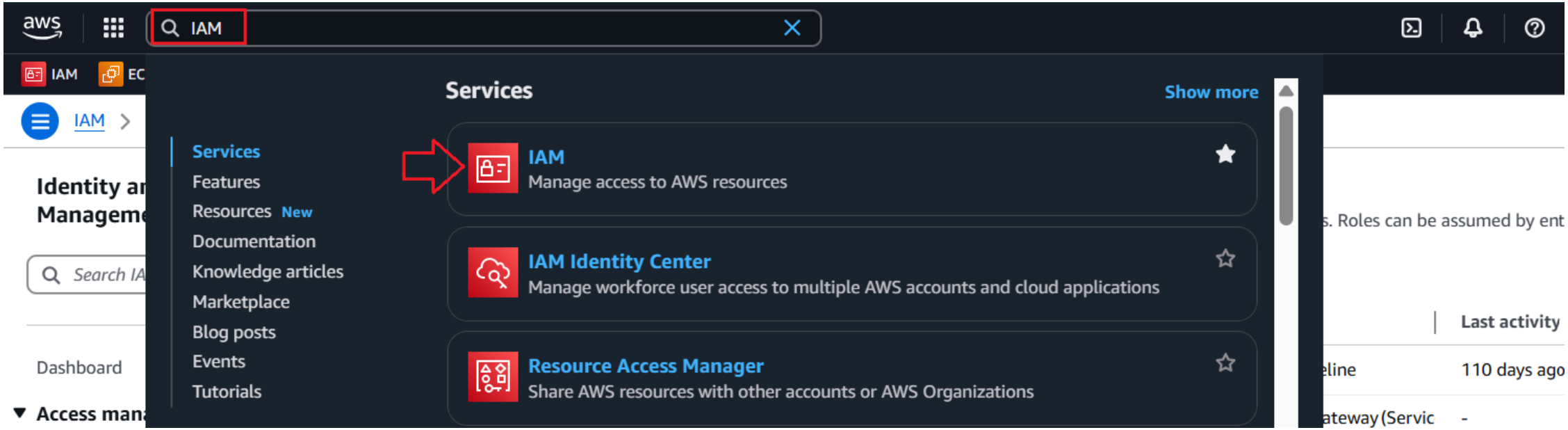
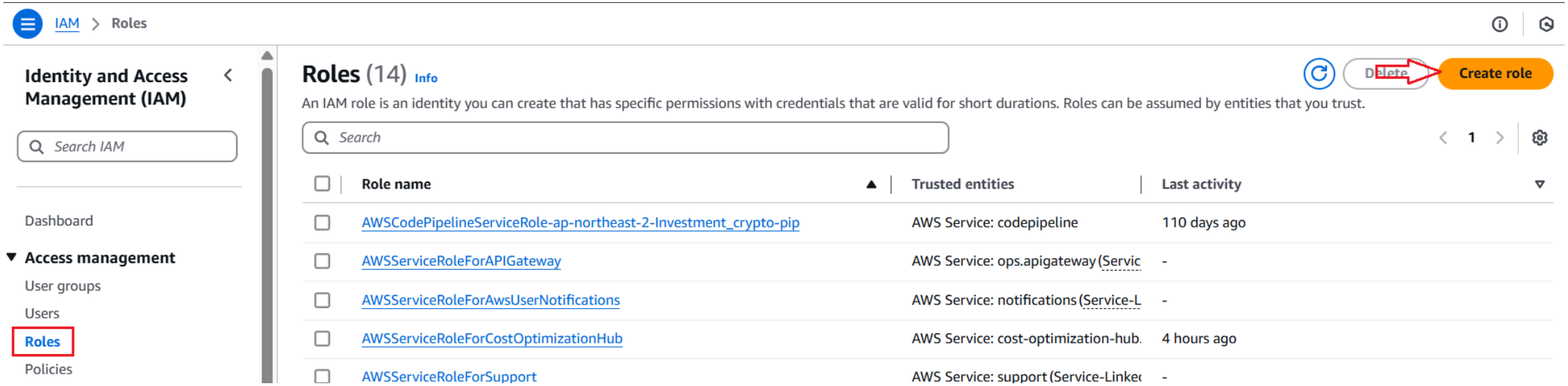
AWS Cloudformation Role

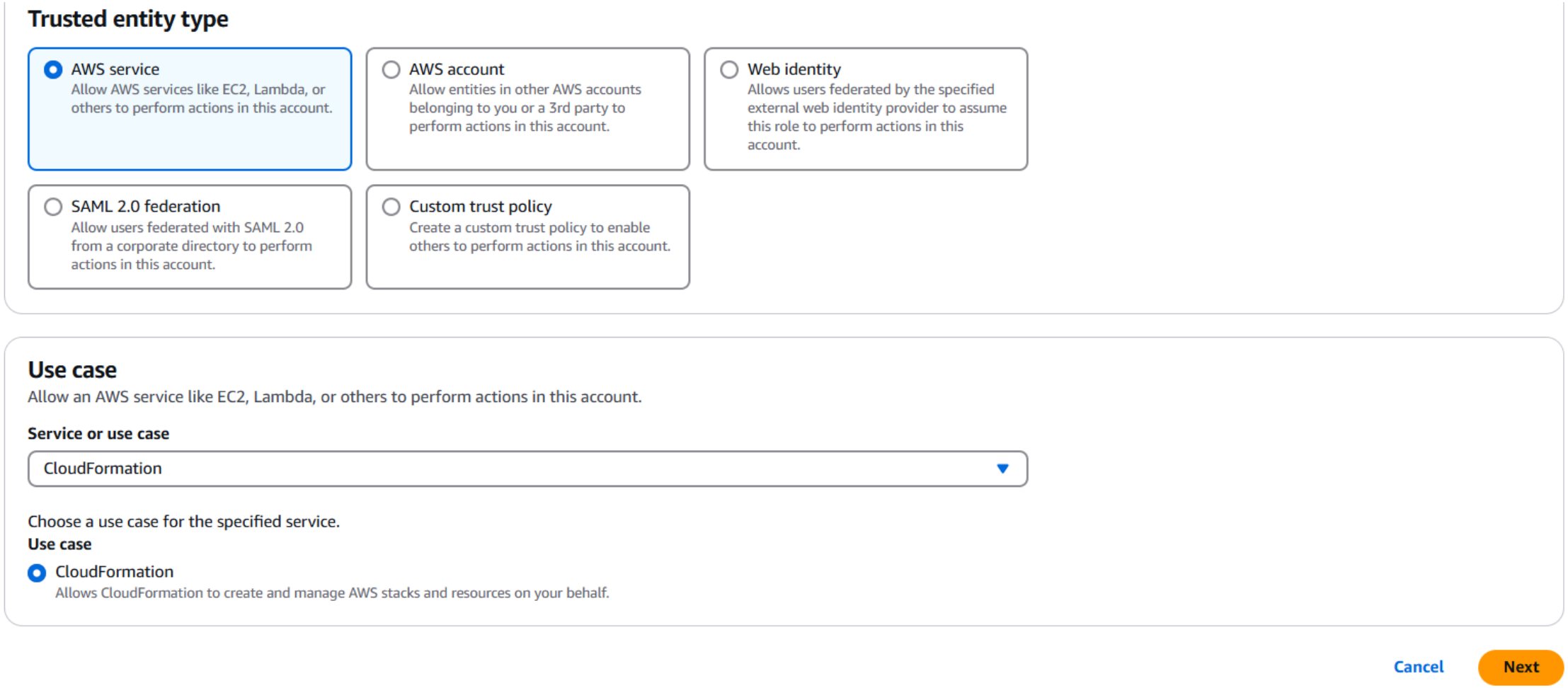
AWS IAM 접속



단계1: Create role

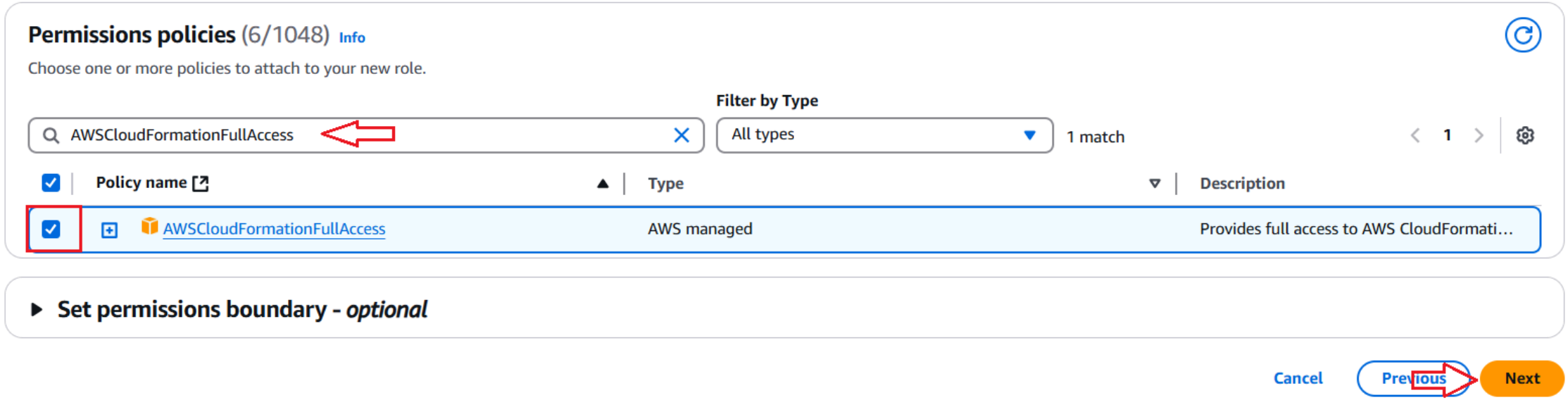


단계2: Select trusted entity



단계3: Add Permissions

```
AWSCloudFormationFullAccess
IAMFullAccess
AmazonS3FullAccess
AWSLambda_FullAccess
CloudWatchEventsFullAccess
CloudWatchFullAccess
```



단계4: Role name

단계5: Create

AmazonS3FullAccess	AWS managed	Permissions policy
AWSCloudFormationFullAccess	AWS managed	Permissions policy
AWSLambda_FullAccess	AWS managed	Permissions policy
CloudWatchEventsFullAccess	AWS managed	Permissions policy
CloudWatchFullAccess	AWS managed	Permissions policy
IAMFullAccess	AWS managed	Permissions policy

Step 3: Add tags

Add tags - *optional* Info

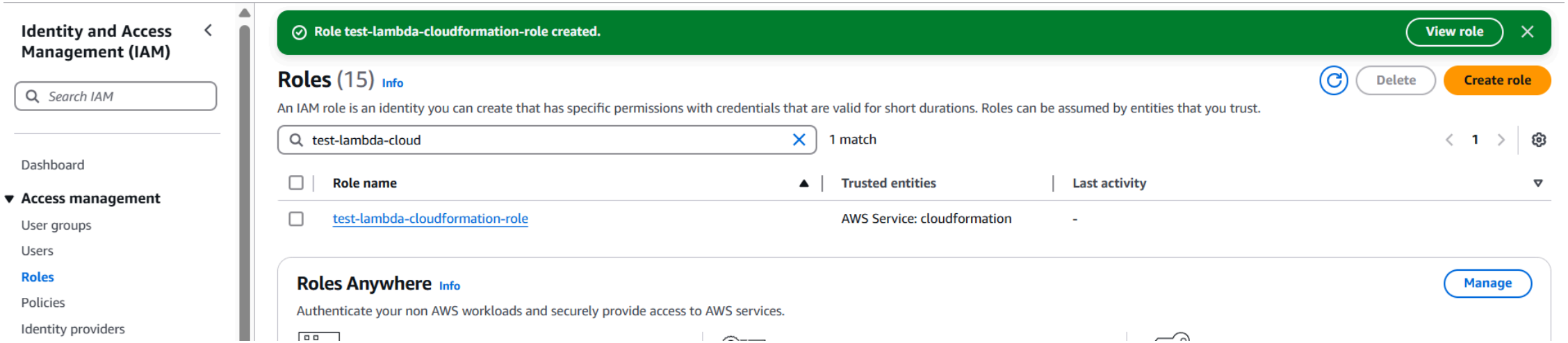
Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

Add new tag

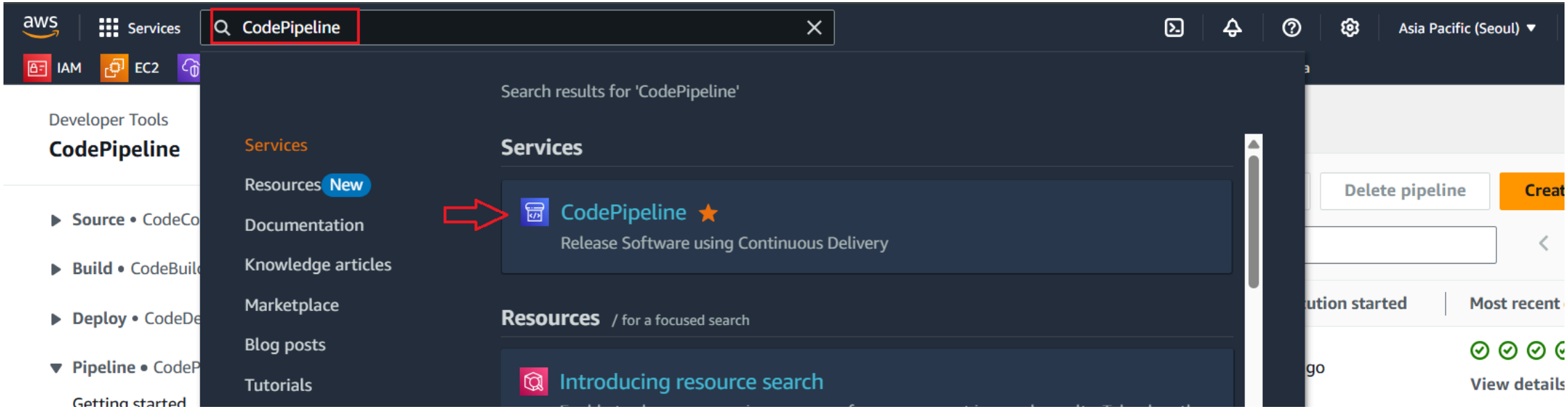
You can add up to 50 more tags.

Cancel Previous Create role


Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Role test-lambda-cloudformation-role created.
View role
Roles (15) Info
Delete
Create role
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.
test-lambda-cloud
1 match
1
Role name
Trusted entities
Last activity
test-lambda-cloudformation-role
AWS Service: cloudformation
-
Roles Anywhere Info
Manage
Authenticate your non AWS workloads and securely provide access to AWS services.

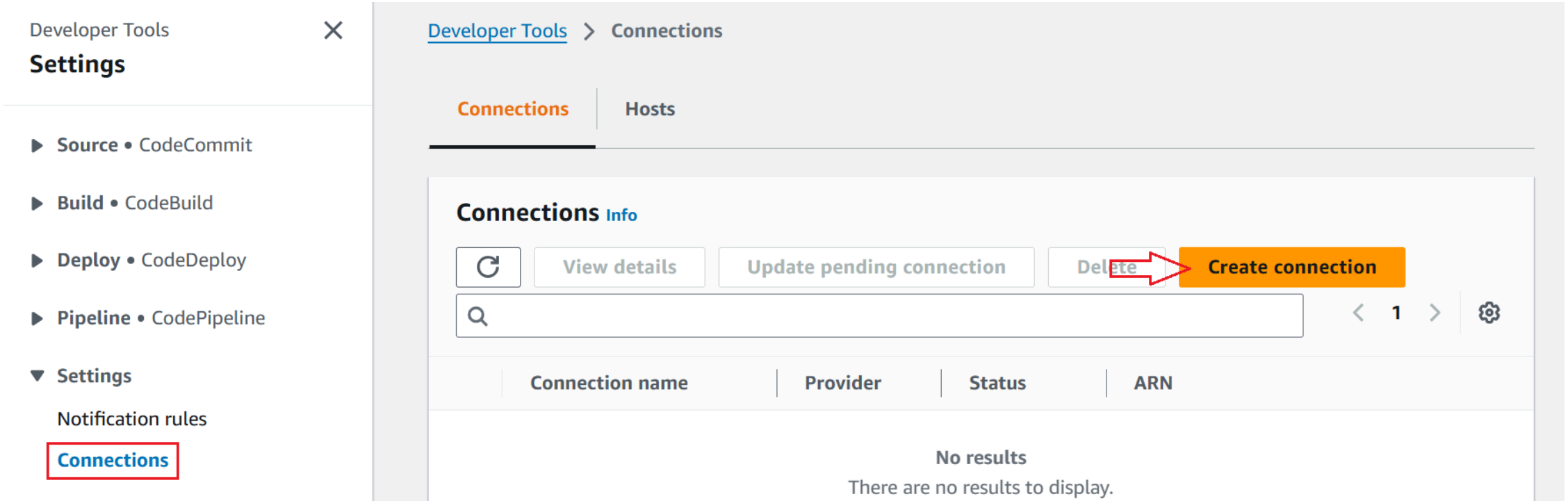
AWS CI/CD

AWS CodePipeline 접속

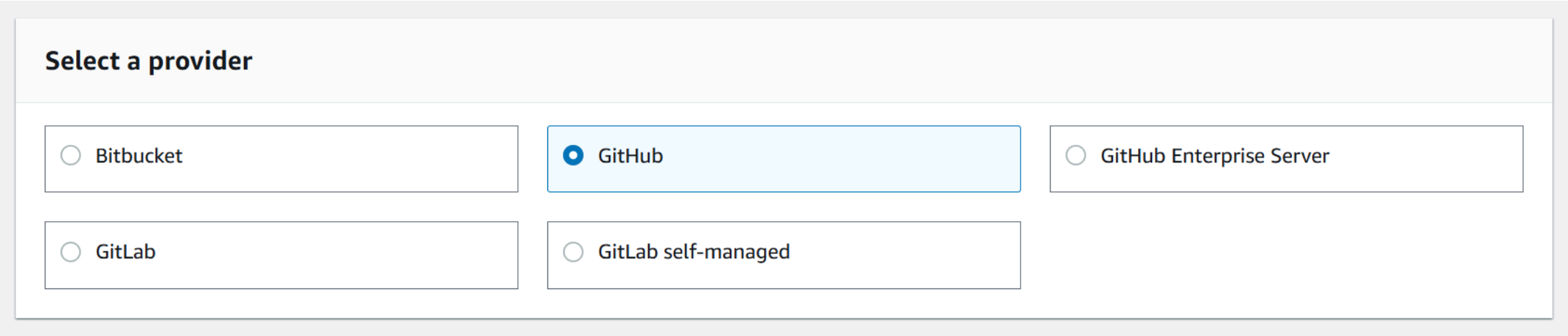


Github Connection 생성

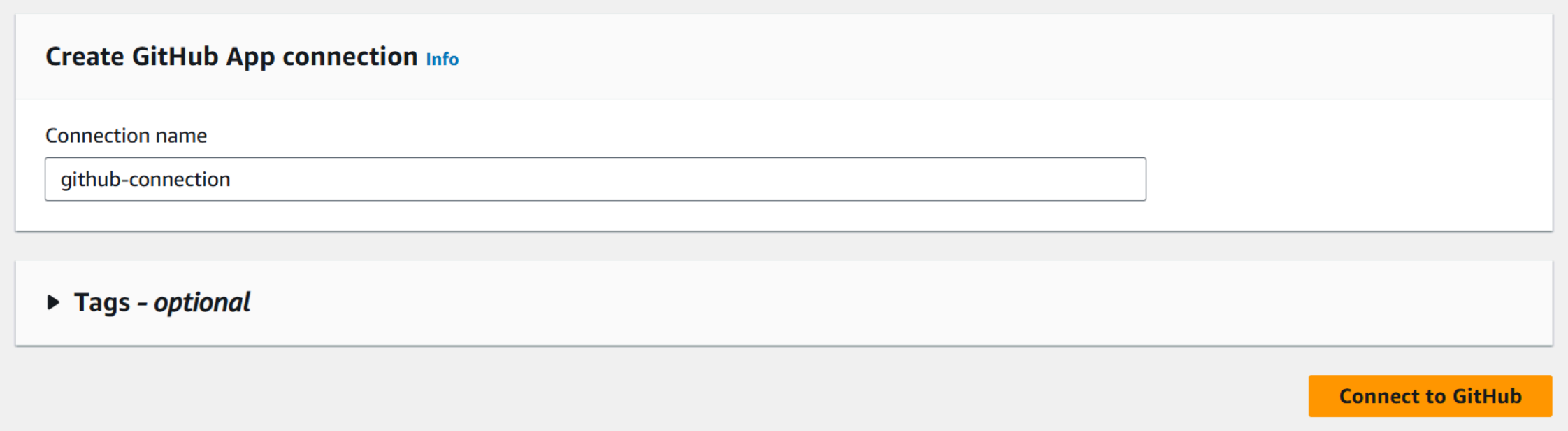
단계1: Create connection



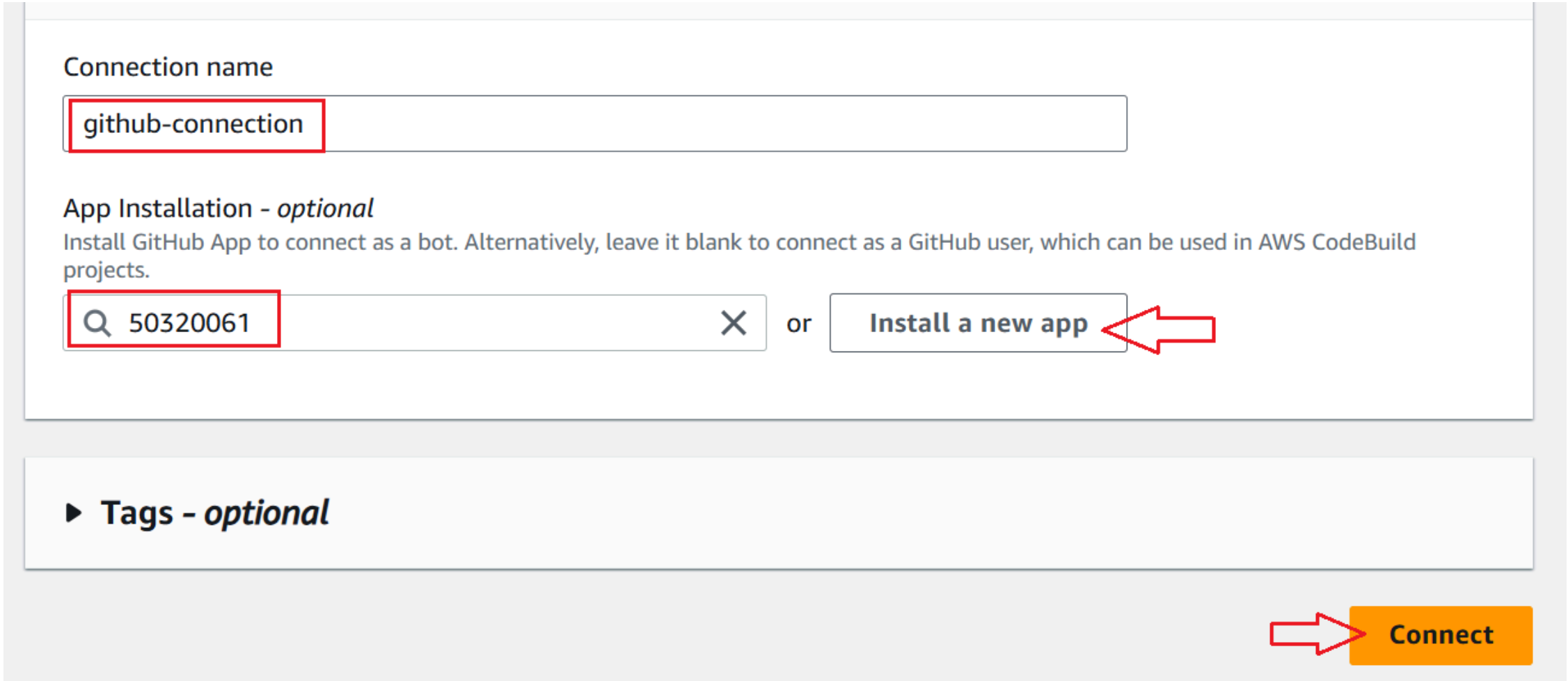
단계2: Select a provider



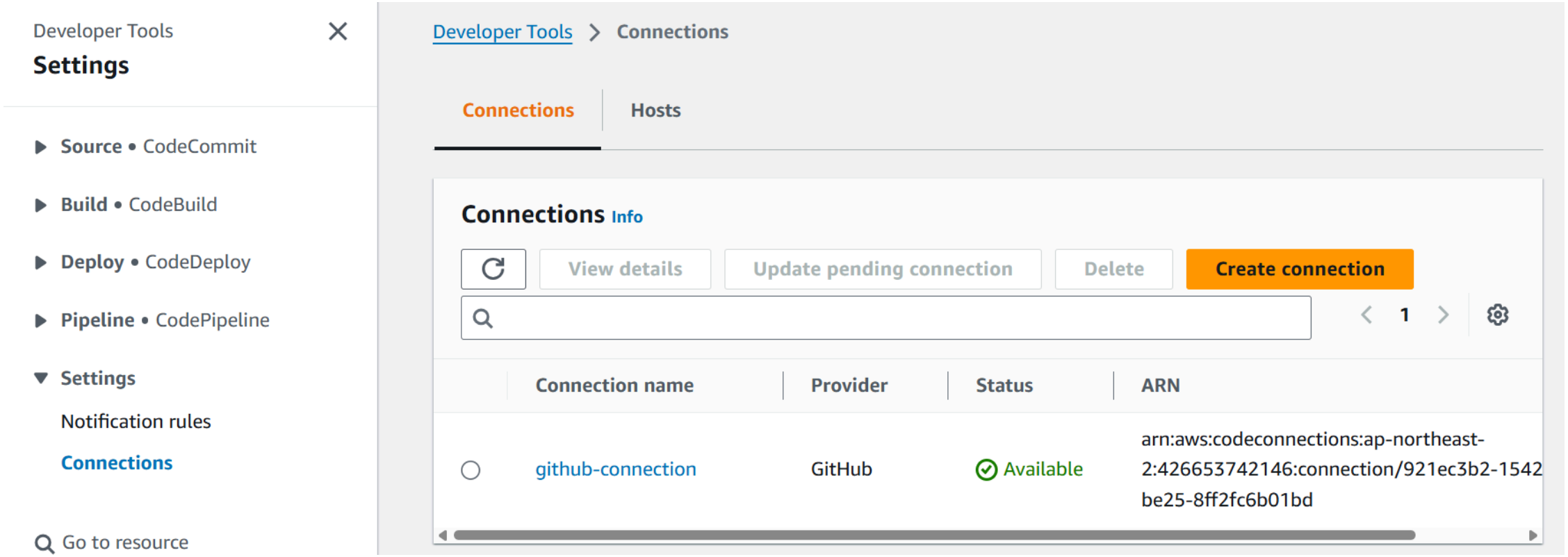
단계3: Connect to GitHub



단계4: GitHub connection settings

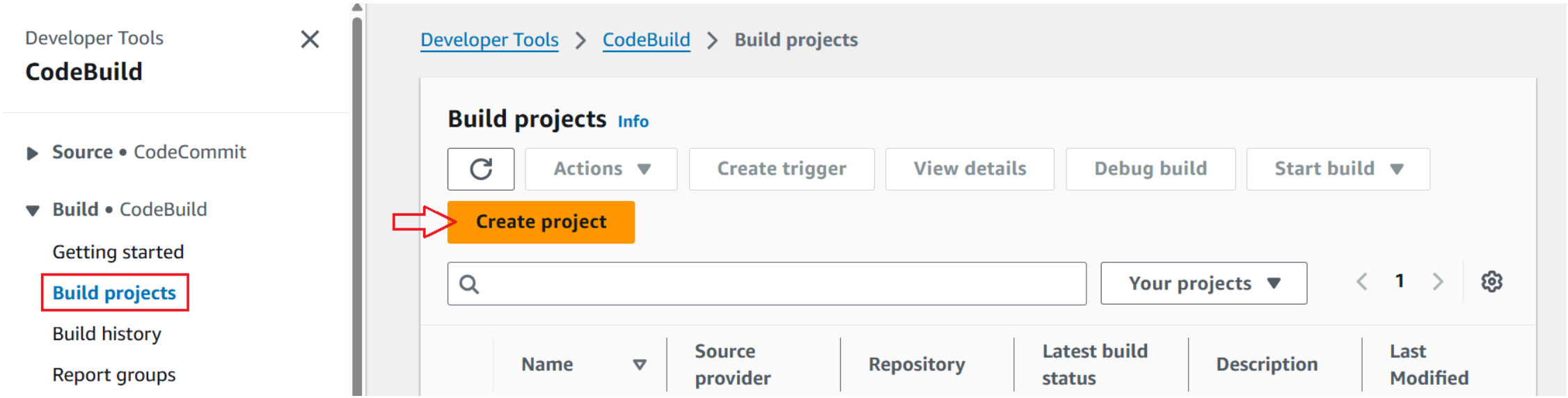


단계5: 결과 확인

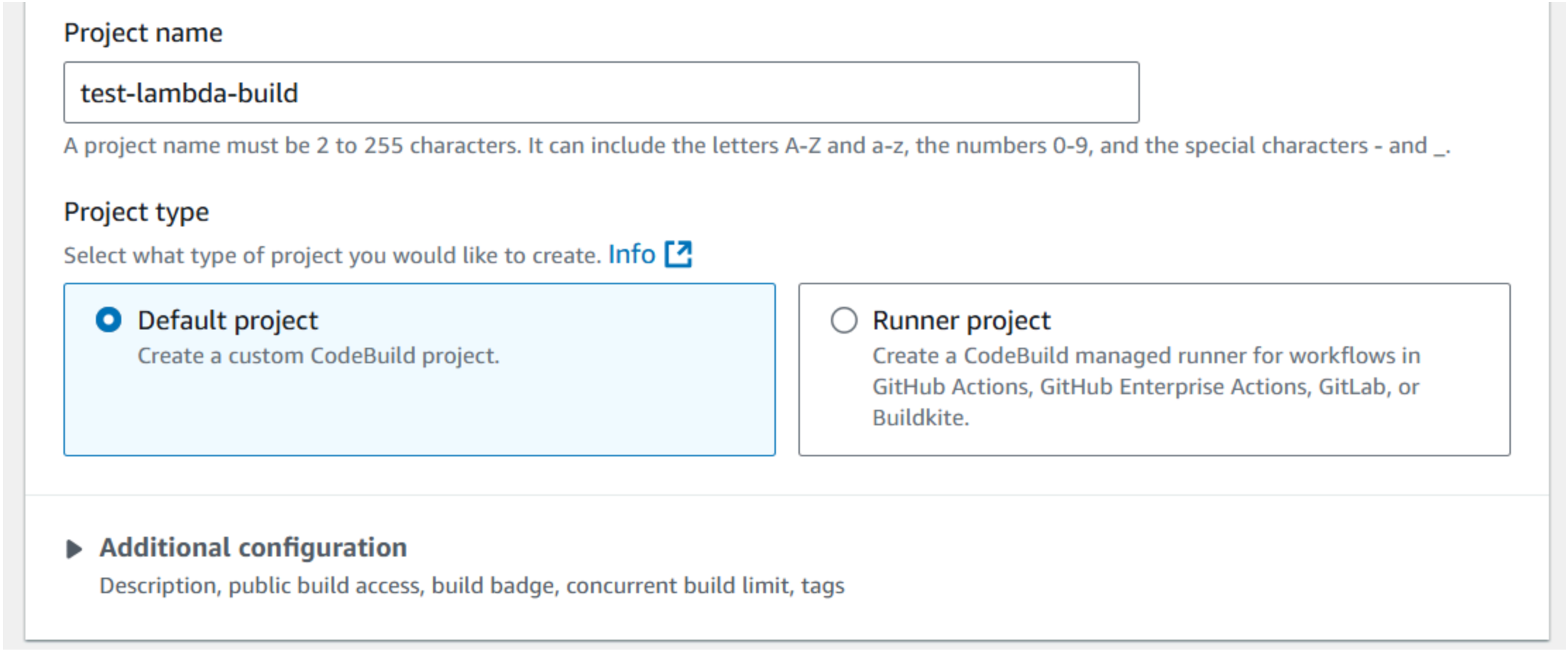

Developer Tools
Settings
Source • CodeCommit
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Settings
Notification rules
Connections
Go to resource
Developer Tools > Connections
Connections
Hosts
Connections Info
View details
Update pending connection
Delete
Create connection
1
Connection name
Provider
Status
ARN
github-connection
GitHub
Available
arn:aws:codeconnections:ap-northeast-2:426653742146:connection/921ec3b2-1542-be25-8ff2fc6b01bd

CodeBuild 생성

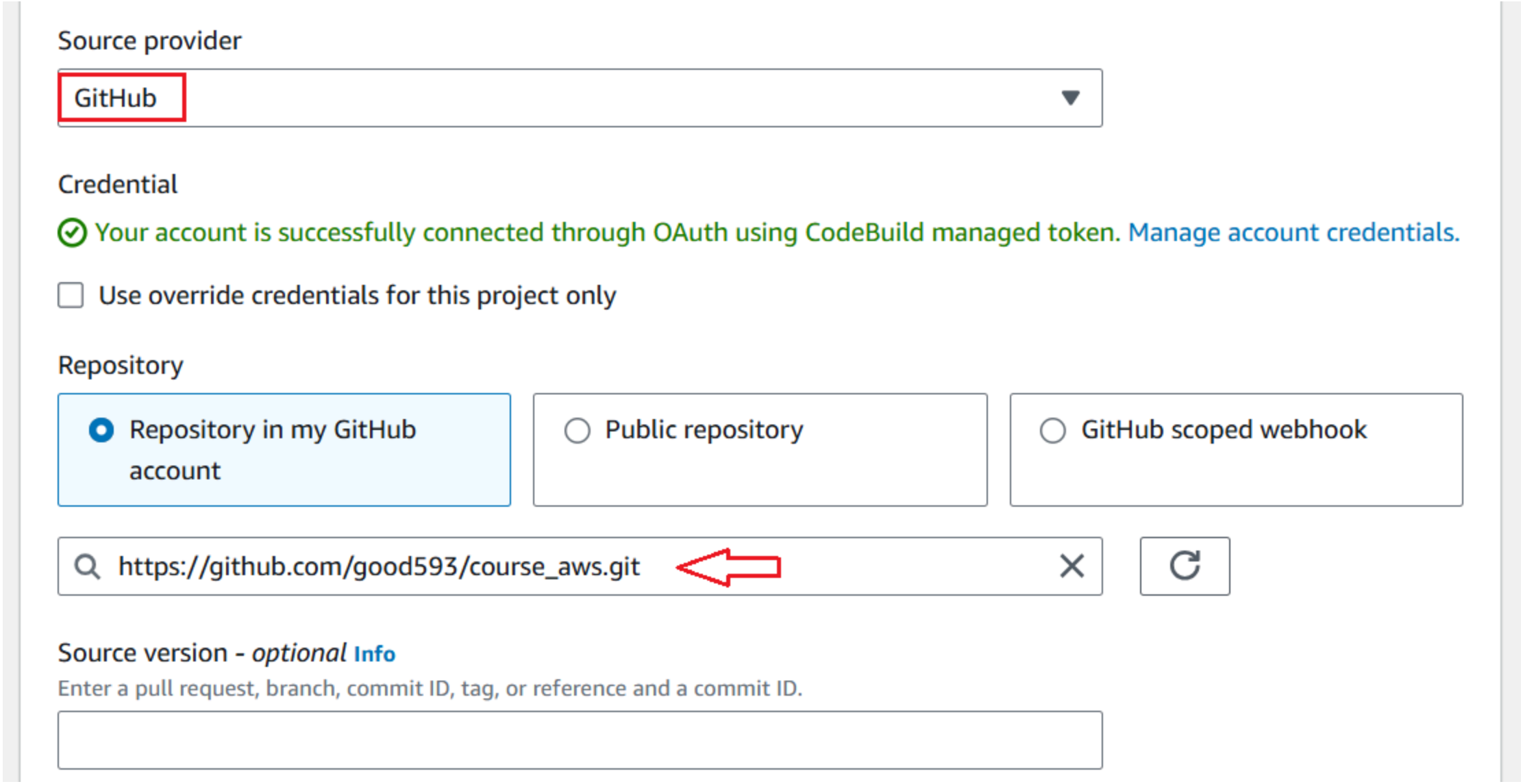
단계1: Create project

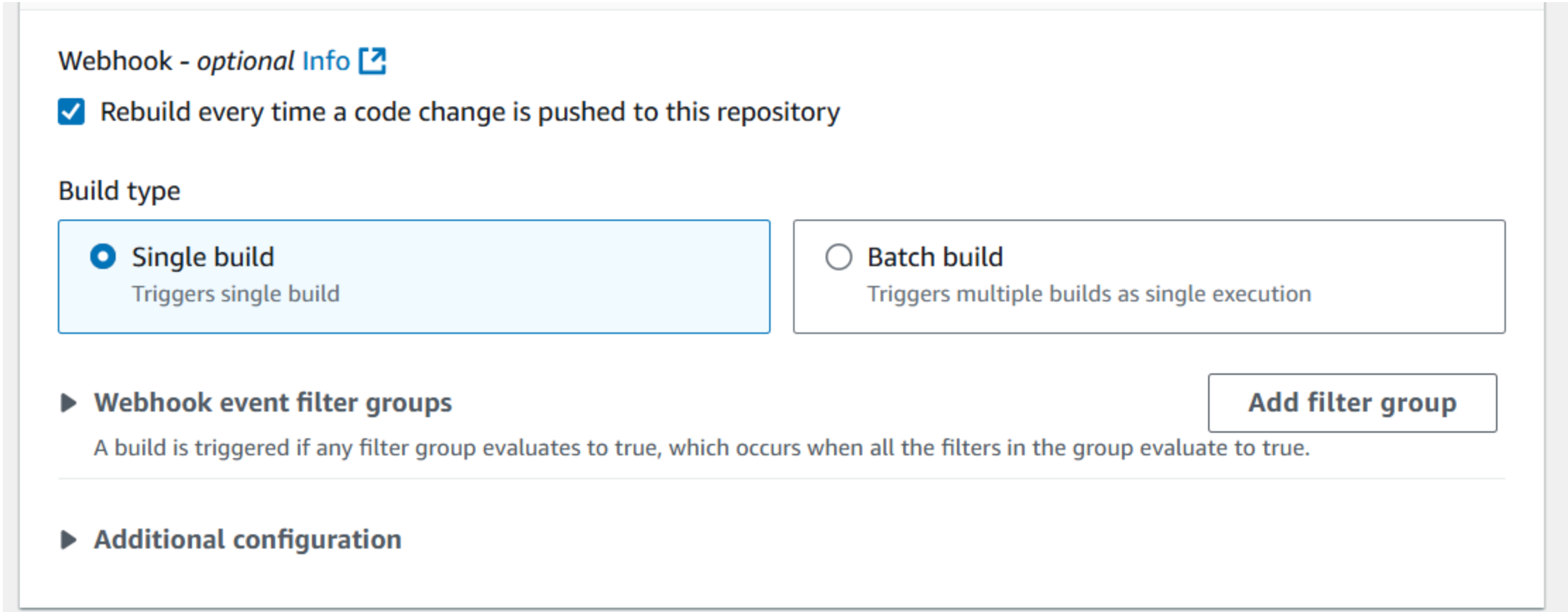


단계2: Project Name

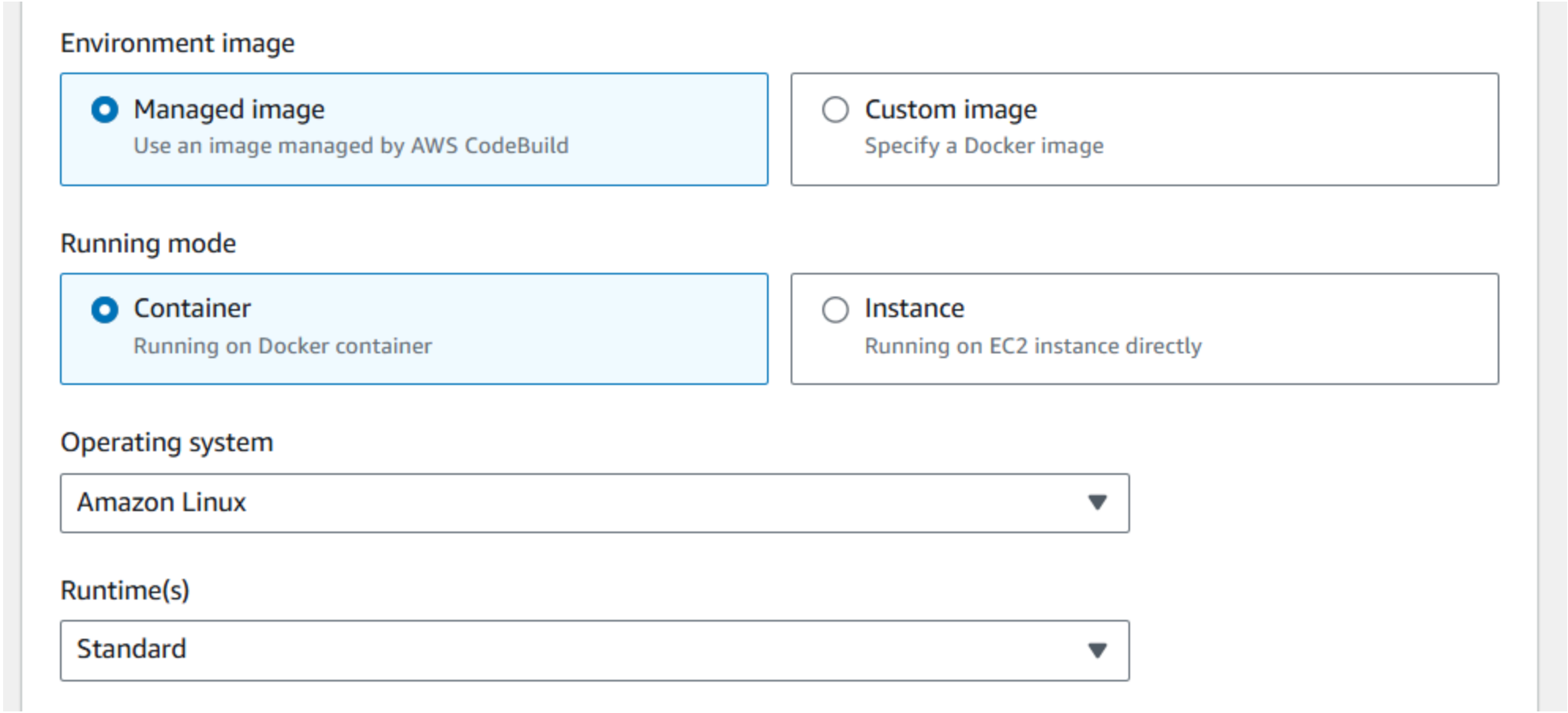


단계3: GitHub


Source provider
GitHub
Credential
Your account is successfully connected through OAuth using CodeBuild managed token. Manage account credentials.
Use override credentials for this project only
Repository
Repository in my GitHub account
Public repository
GitHub scoped webhook
https://github.com/good593/course_aws.git
Source version - optional Info
Enter a pull request, branch, commit ID, tag, or reference and a commit ID.


Webhook - optional Info
Rebuild every time a code change is pushed to this repository
Build type
Single build
Triggers single build
Batch build
Triggers multiple builds as single execution
Webhook event filter groups
Add filter group
A build is triggered if any filter group evaluates to true, which occurs when all the filters in the group evaluate to true.
Additional configuration

단계4: Image


Environment image
Managed image
Use an image managed by AWS CodeBuild
Custom image
Specify a Docker image
Running mode
Container
Running on Docker container
Instance
Running on EC2 instance directly
Operating system
Amazon Linux
Runtime(s)
Standard

Image

aws/codebuild/amazonlinux-x86_64-standard:5.0

Image version

Always use the latest image for this runtime version

☐ Use GPU-enhanced compute

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

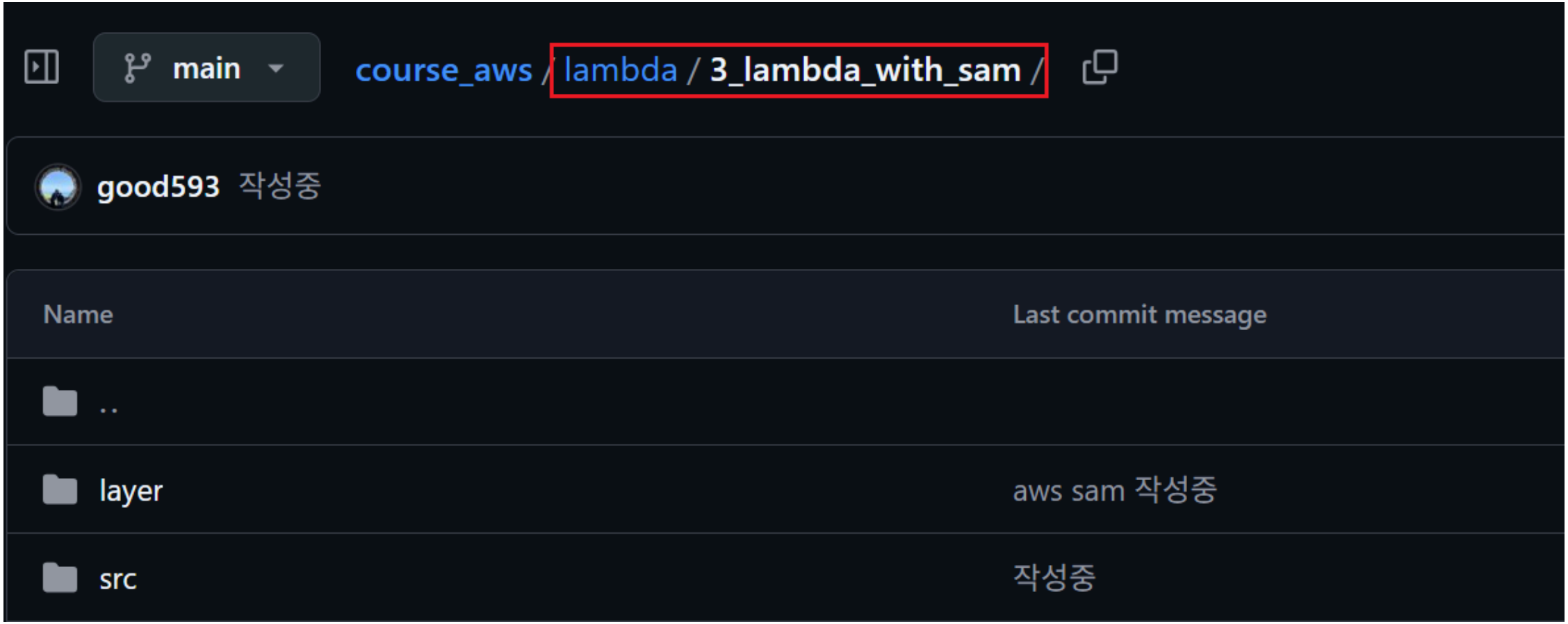
codebuild-test-lambda-build-service-role

Type your service role name

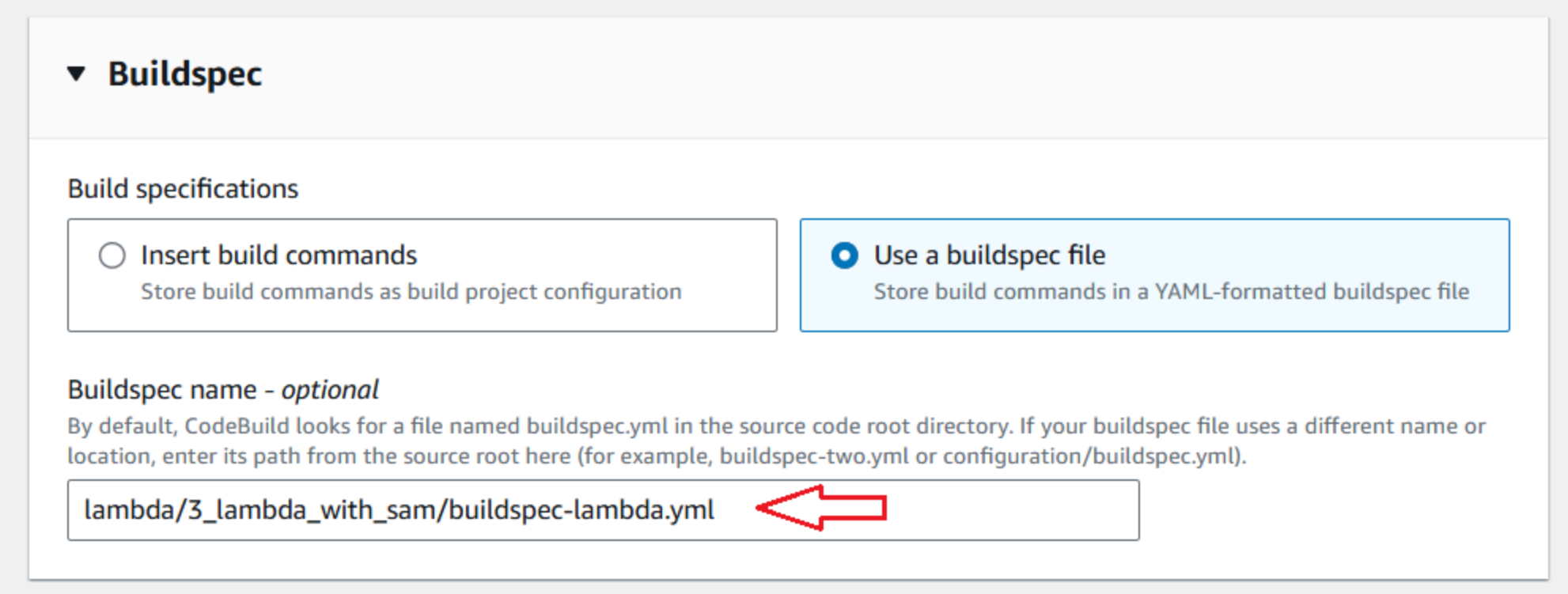
▶ **Additional configuration**
Timeout, privileged, certificate, VPC, compute type, environment variables, file systems, auto-retry, registry credential

단계5: buildspec.yml

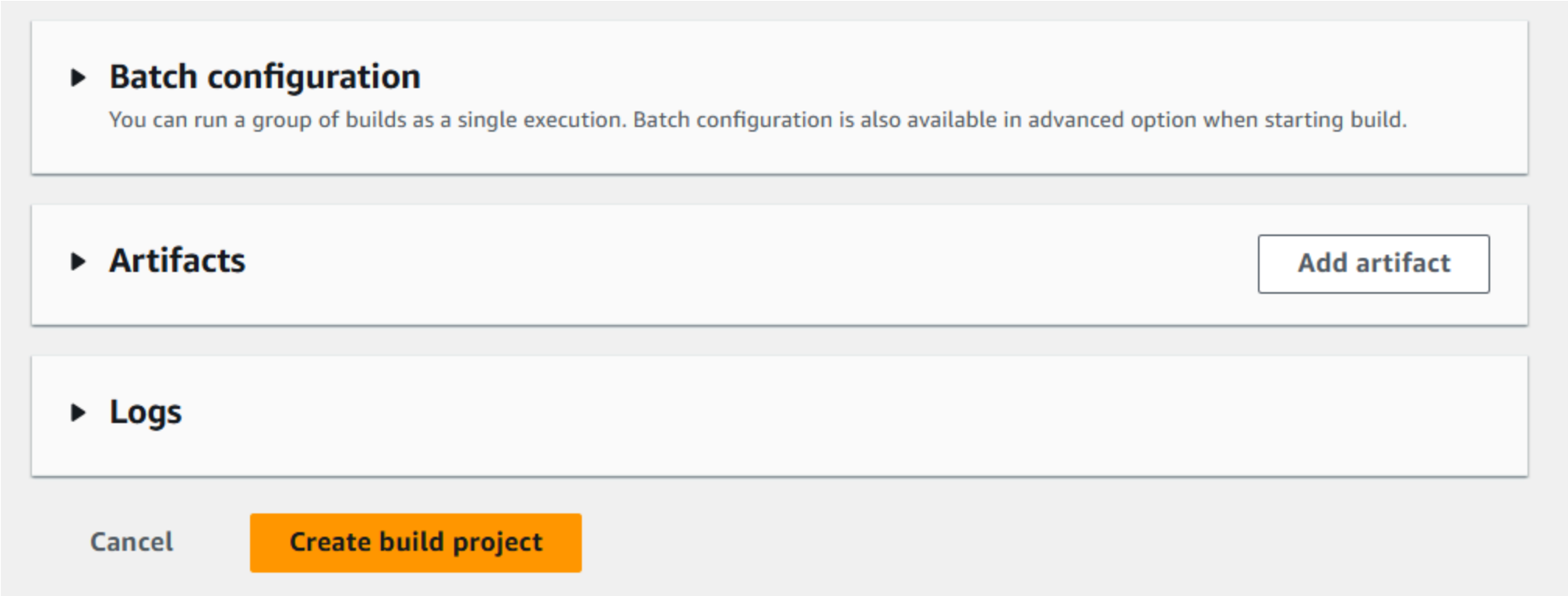
- buildspec-lambda.yml 파일이 위치하는 path 복사



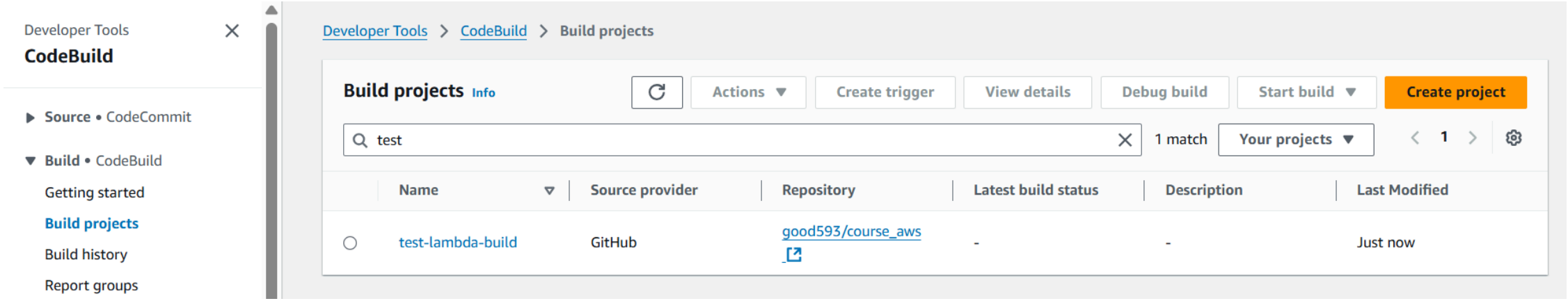
- 복사한 path/buildspec-lambda.yml



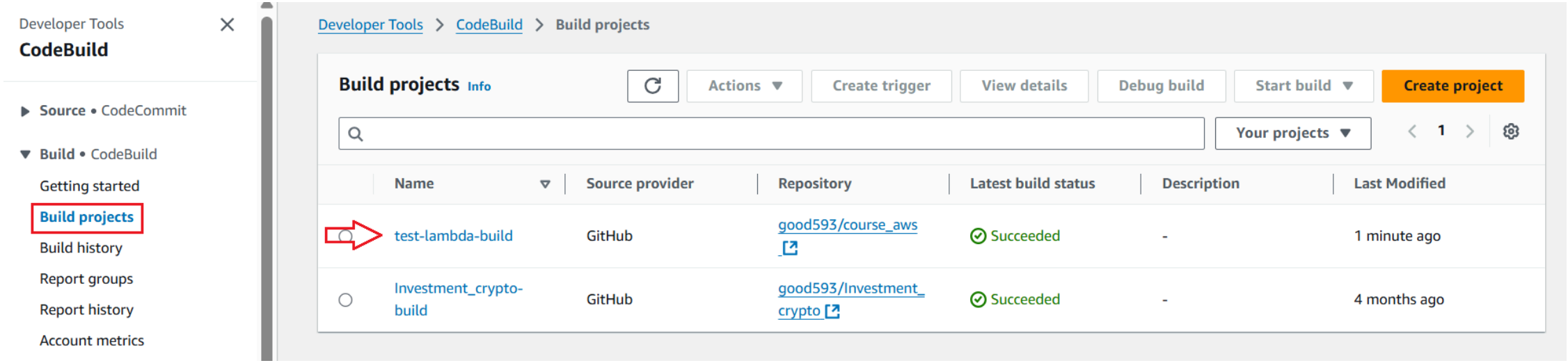
단계6: Create


Batch configuration
You can run a group of builds as a single execution. Batch configuration is also available in advanced option when starting build.
Artifacts
Add artifact
Logs
Cancel
Create build project

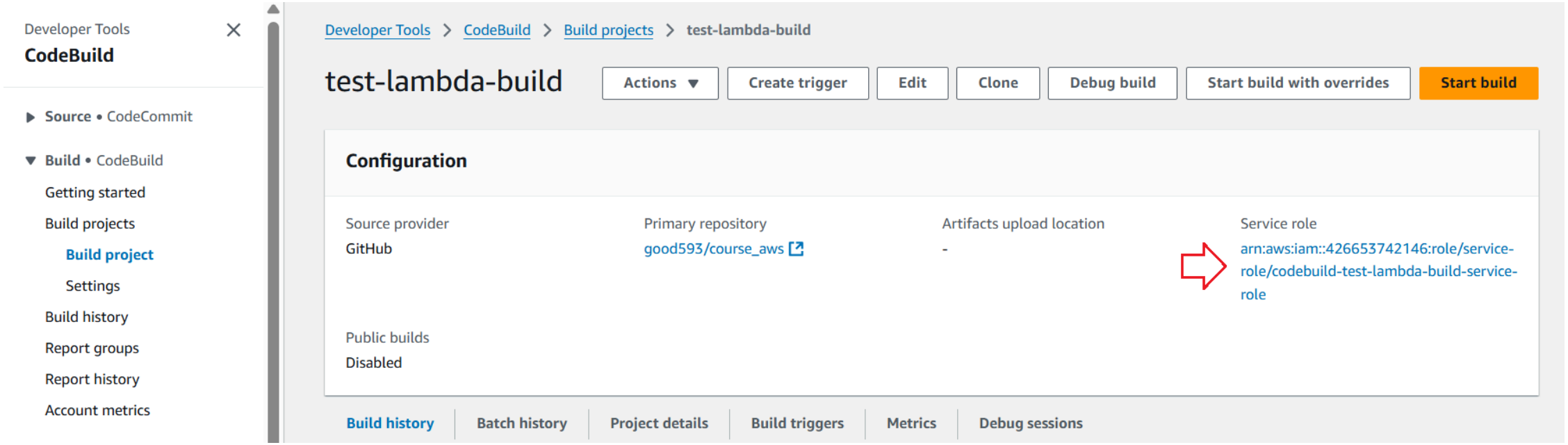
단계7: 결과 확인


Developer Tools
CodeBuild
Source • CodeCommit
Build • CodeBuild
Getting started
Build projects
Build history
Report groups
Developer Tools > CodeBuild > Build projects
Build projects Info
Actions
Create trigger
View details
Debug build
Start build
Create project
test
1 match
Your projects
1
Name
Source provider
Repository
Latest build status
Description
Last Modified
test-lambda-build
GitHub
good593/course_aws
-
-
Just now

단계8: build 접속

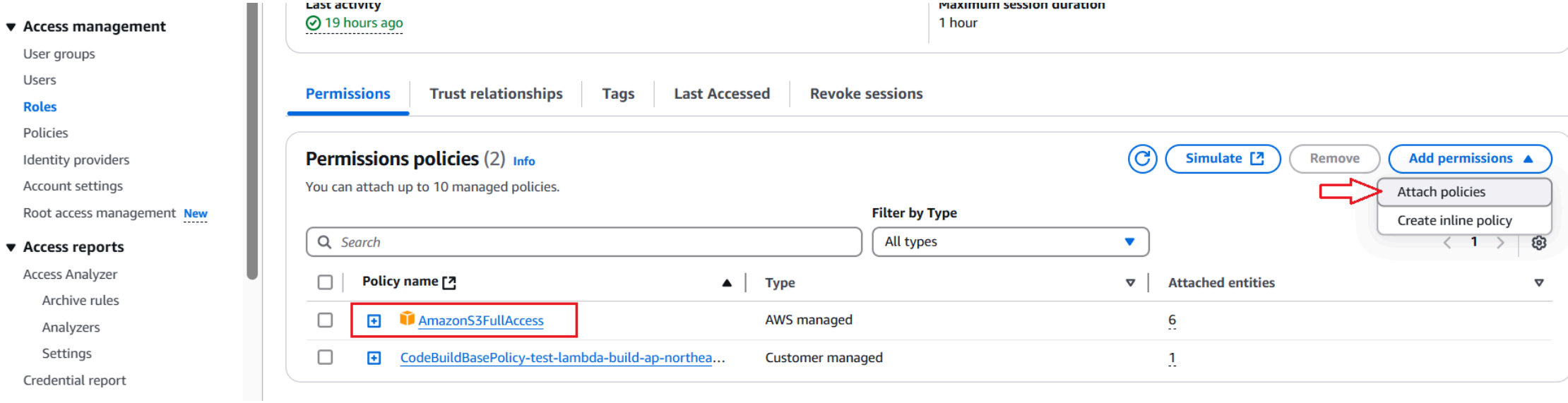

Developer Tools
CodeBuild
Source • CodeCommit
Build • CodeBuild
Getting started
Build projects
Build history
Report groups
Report history
Account metrics
Developer Tools > CodeBuild > Build projects
Build projects Info
Actions
Create trigger
View details
Debug build
Start build
Create project
Your projects
1
Name
Source provider
Repository
Latest build status
Description
Last Modified
test-lambda-build
GitHub
good593/course_aws
Succeeded
-
1 minute ago
Investment_crypto-build
GitHub
good593/Investment_crypto
Succeeded
-
4 months ago

단계9: Service role 접속

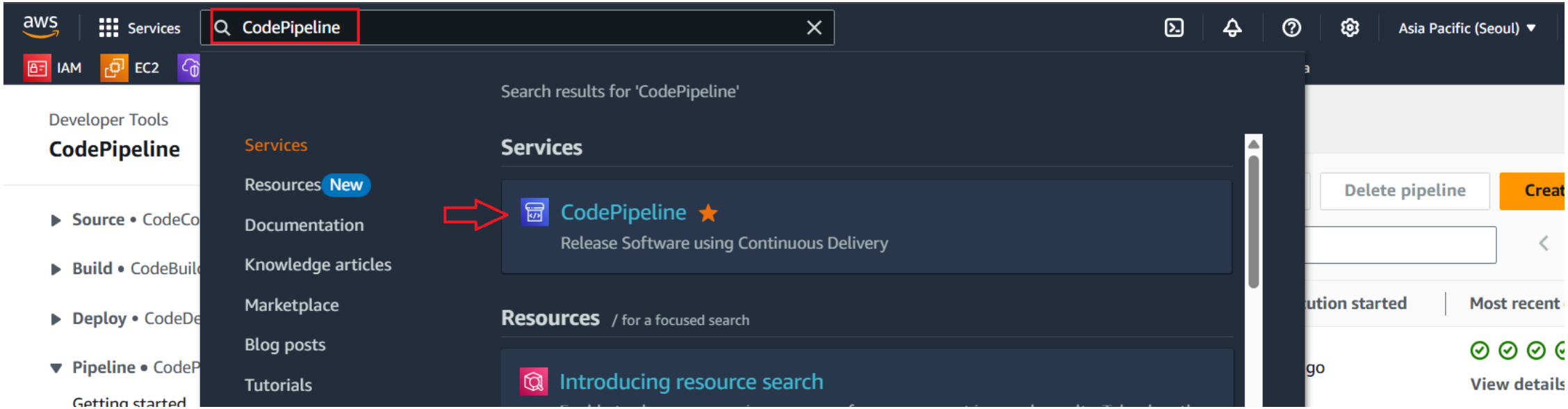


단계10: Attach policies

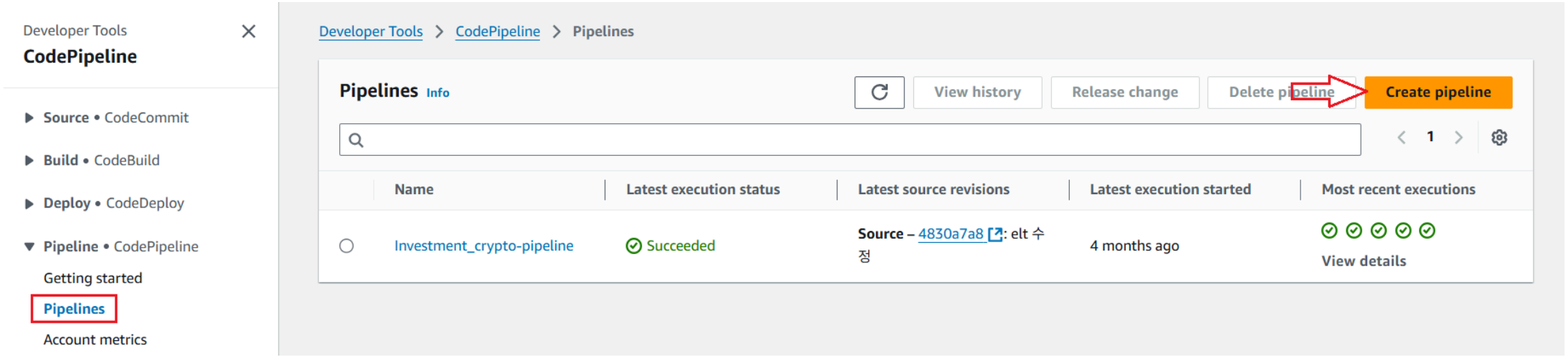
`AmazonS3FullAccess`



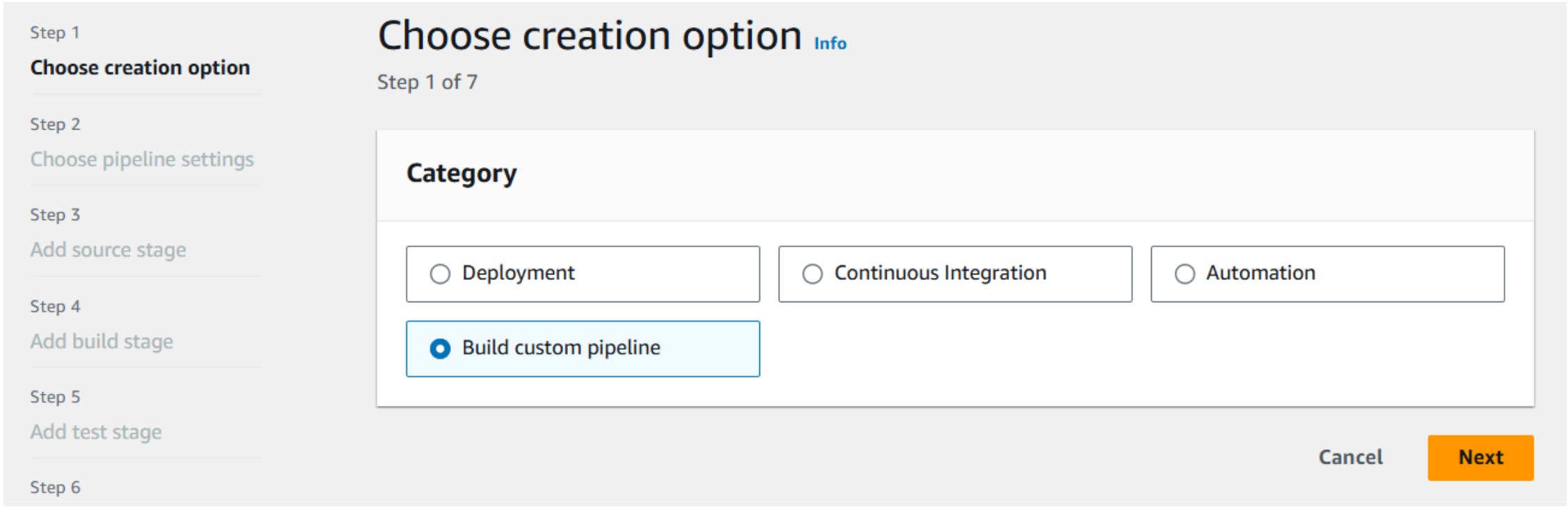
CodePipeline



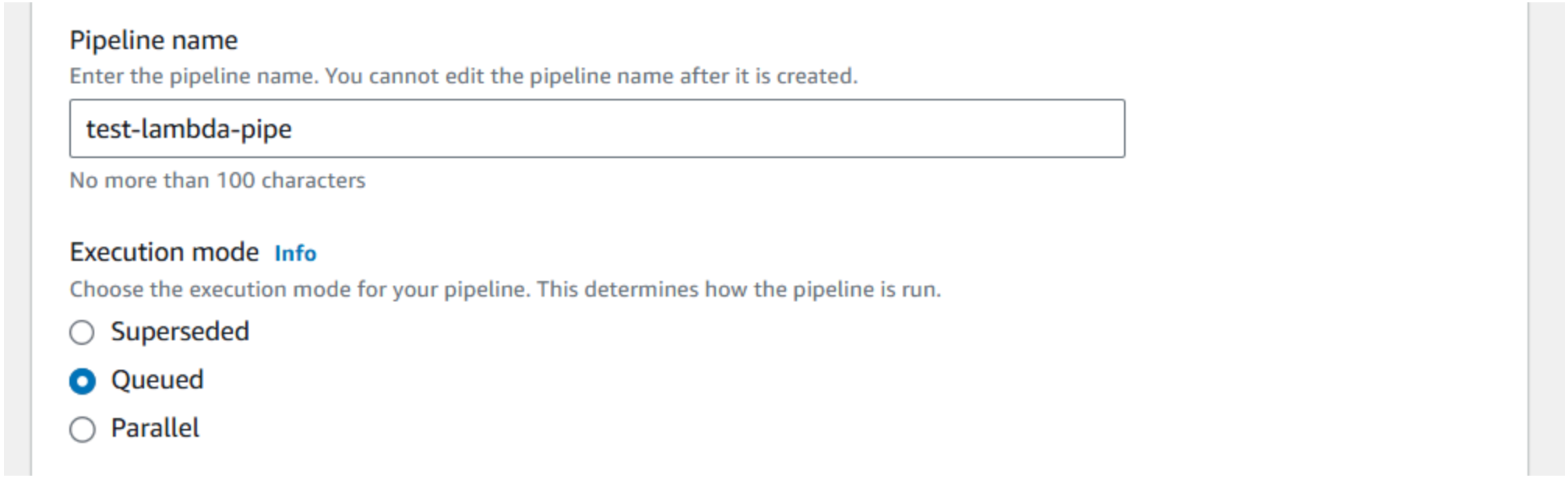
단계1: Create pipeline

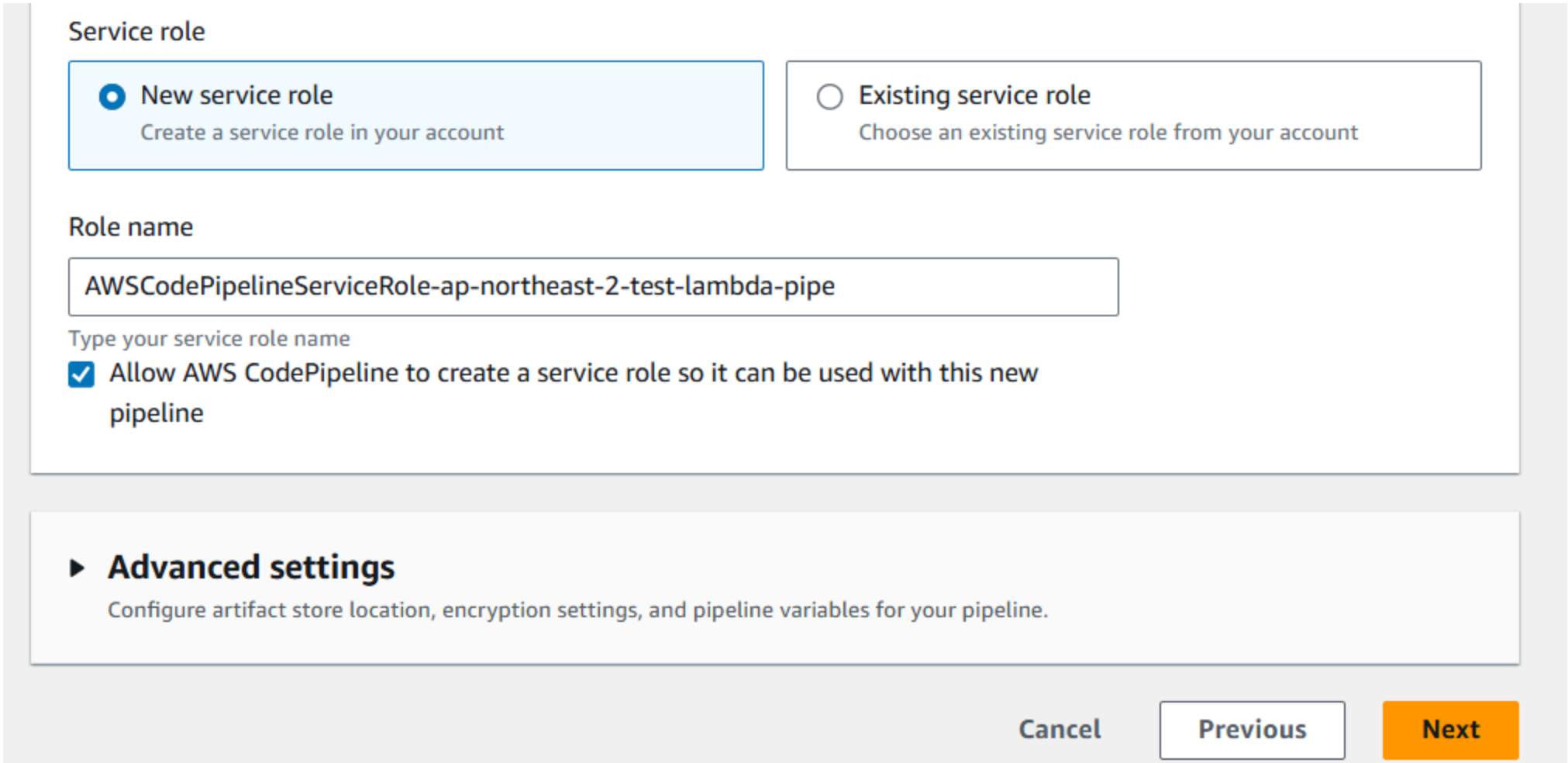


단계2: Choose creation option

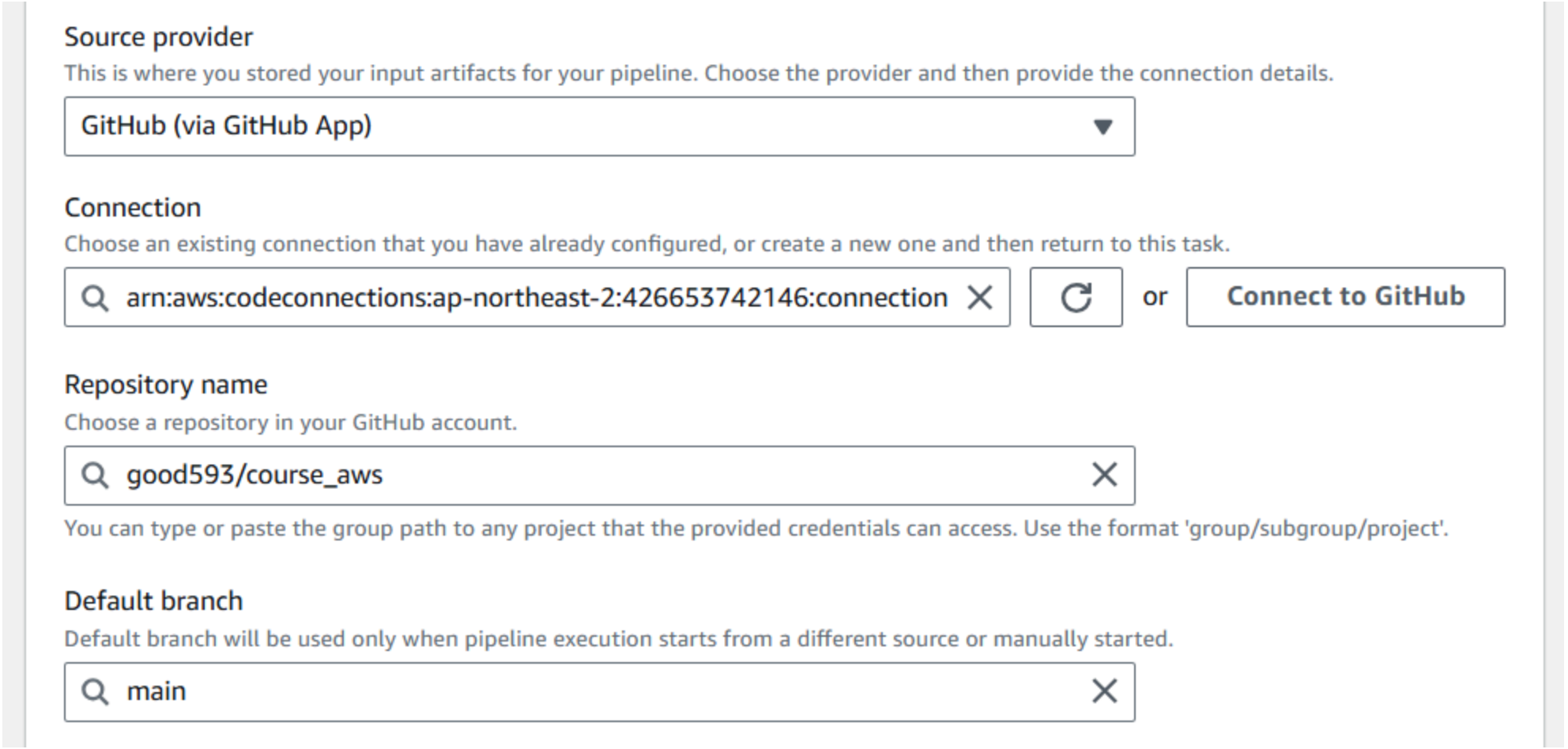


단계3: Choose pipeline settings




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-test-lambda-pipe
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

단계4: Add source stage



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

[x] Enable automatic retry on stage failure

Webhook events

Webhook - *optional*

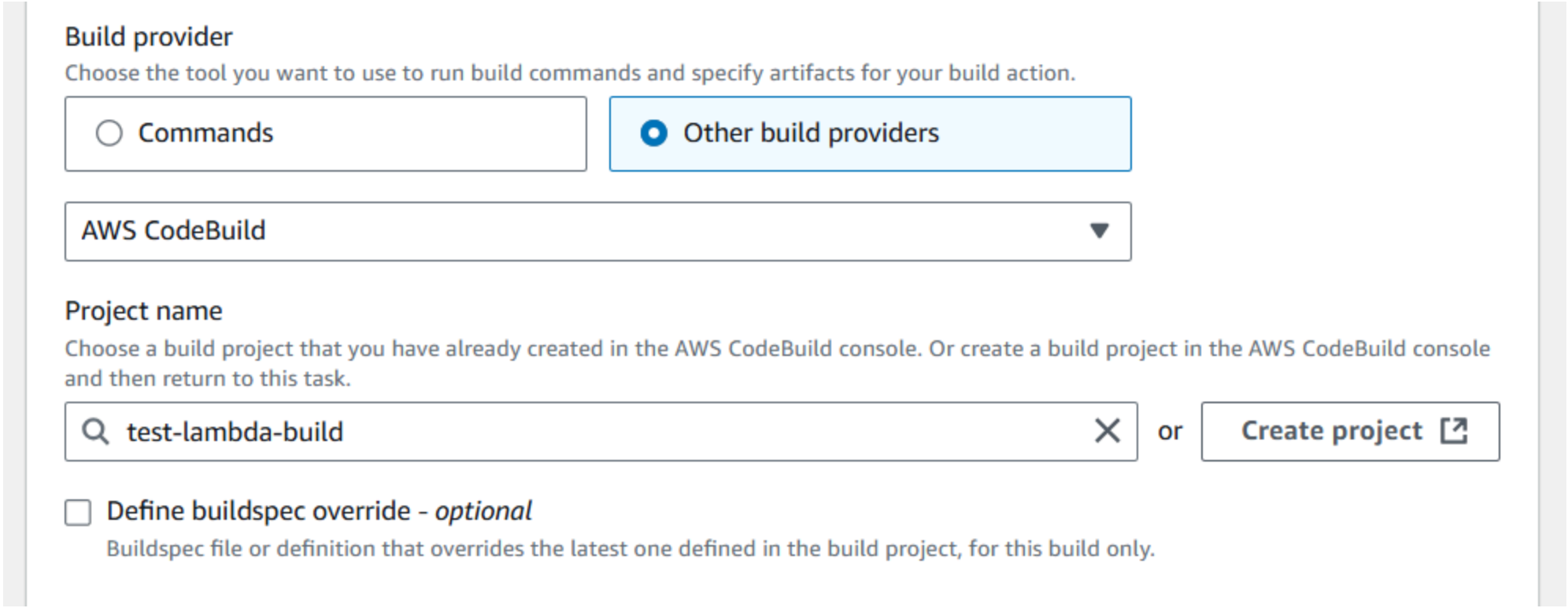
[x] Start your pipeline on push and pull request events.

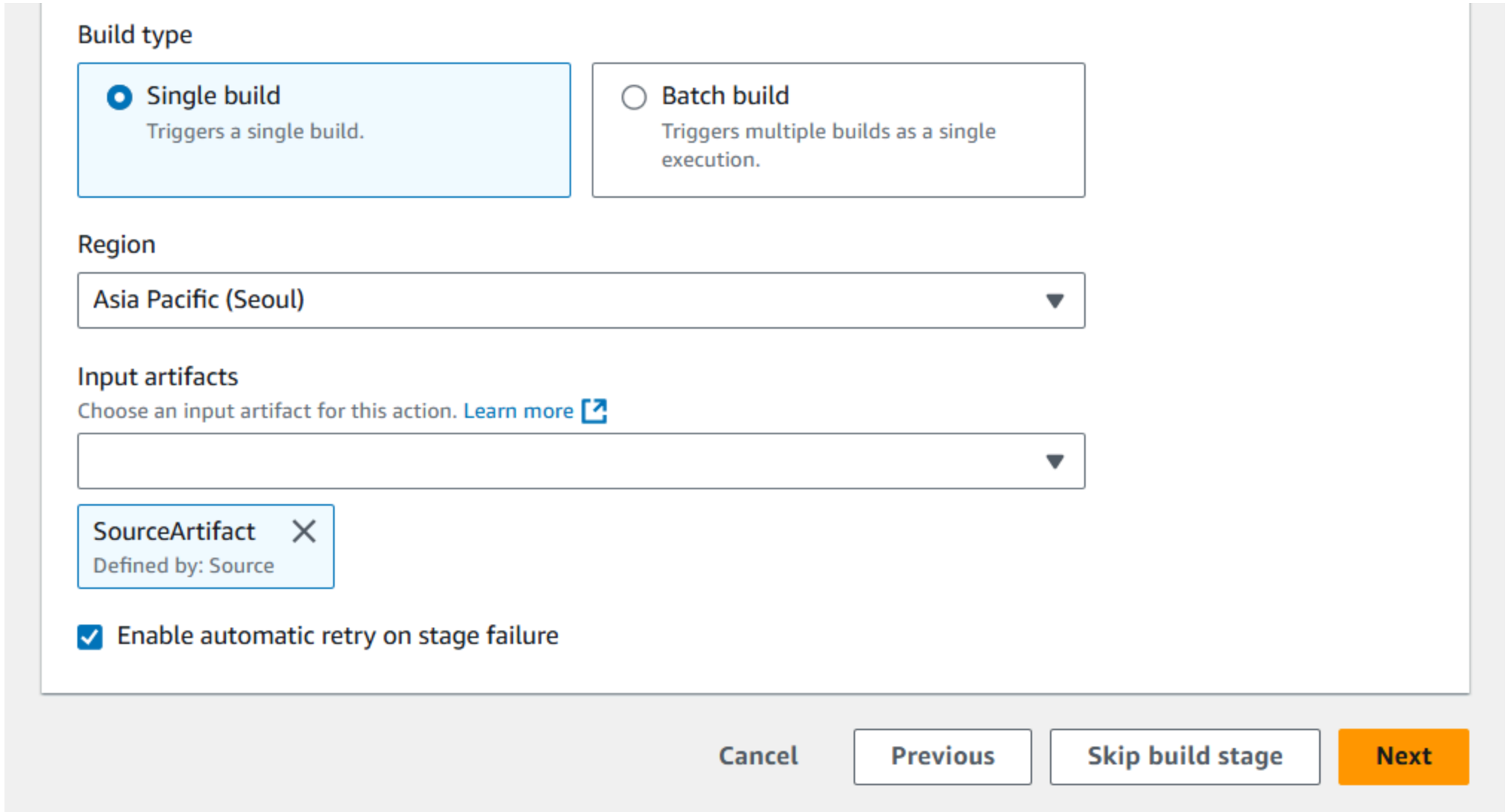
▶ **Webhook event filters - *optional*** Remove filters

Starts your pipeline on a specific event.

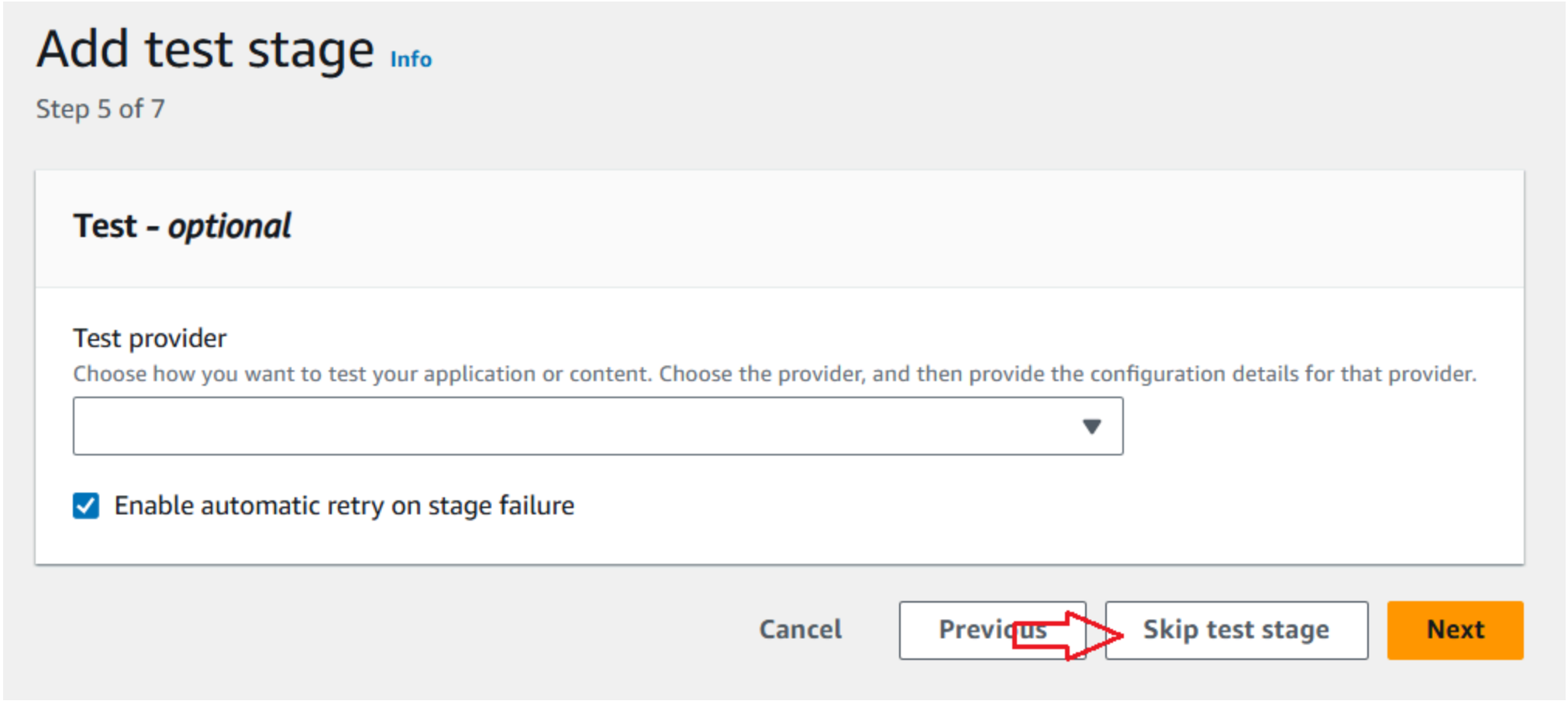
Cancel Previous Next

단계5: Add build stage

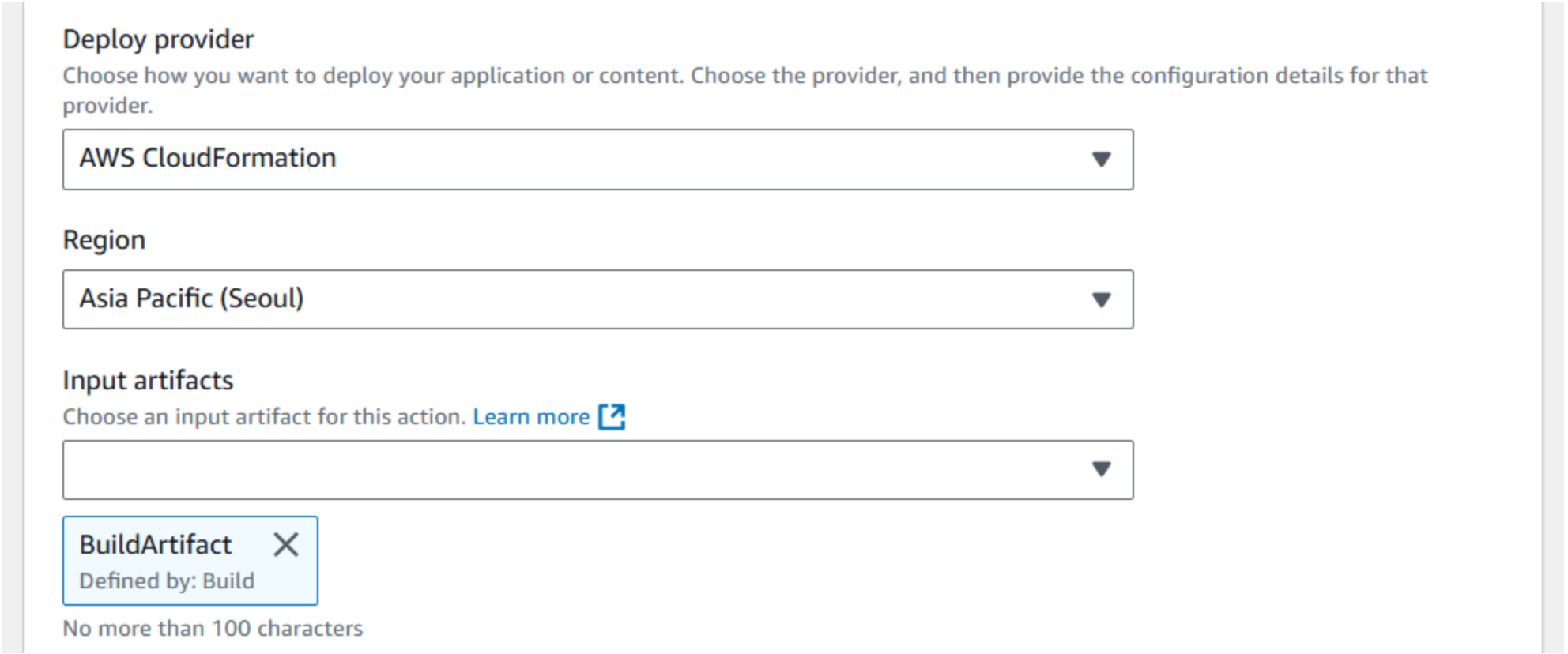



Build type
Single build
Triggers a single build.
Batch build
Triggers multiple builds as a single execution.
Region
Asia Pacific (Seoul)
Input artifacts
Choose an input artifact for this action. Learn more
SourceArtifact
Defined by: Source
Enable automatic retry on stage failure
Cancel
Previous
Skip build stage
Next

단계6: (생략) Add test stage



단계7: Add deploy stage



Action mode

When you update an existing stack, the update is permanent. When you use a change set, the result provides a diff of the updated stack and the original stack before you choose to execute the change.

Create or update a stack

Stack name

If you are updating an existing stack, choose the stack name.

test-lambda-stack

Template

Specify the template you uploaded to your source location.

Artifact name	File name	Template file path
BuildArtifact	outputtemplate.yml	BuildArtifact::outputtem

Template configuration - *optional*

Specify the configuration file you uploaded to your source location.

Use configuration file

Artifact name	File name	Template configuration file path

Capabilities - *optional*

Specify whether you want to allow AWS CloudFormation to create IAM resources on your behalf.

CAPABILITY_IAM ✕ CAPABILITY_NAMED_IAM ✕

CAPABILITY_AUTO_EXPAND ✕

Role name

arn:aws:iam::426653742146:role/test-lambda-cloudformation-role ✕

Output file name

File generated by this action

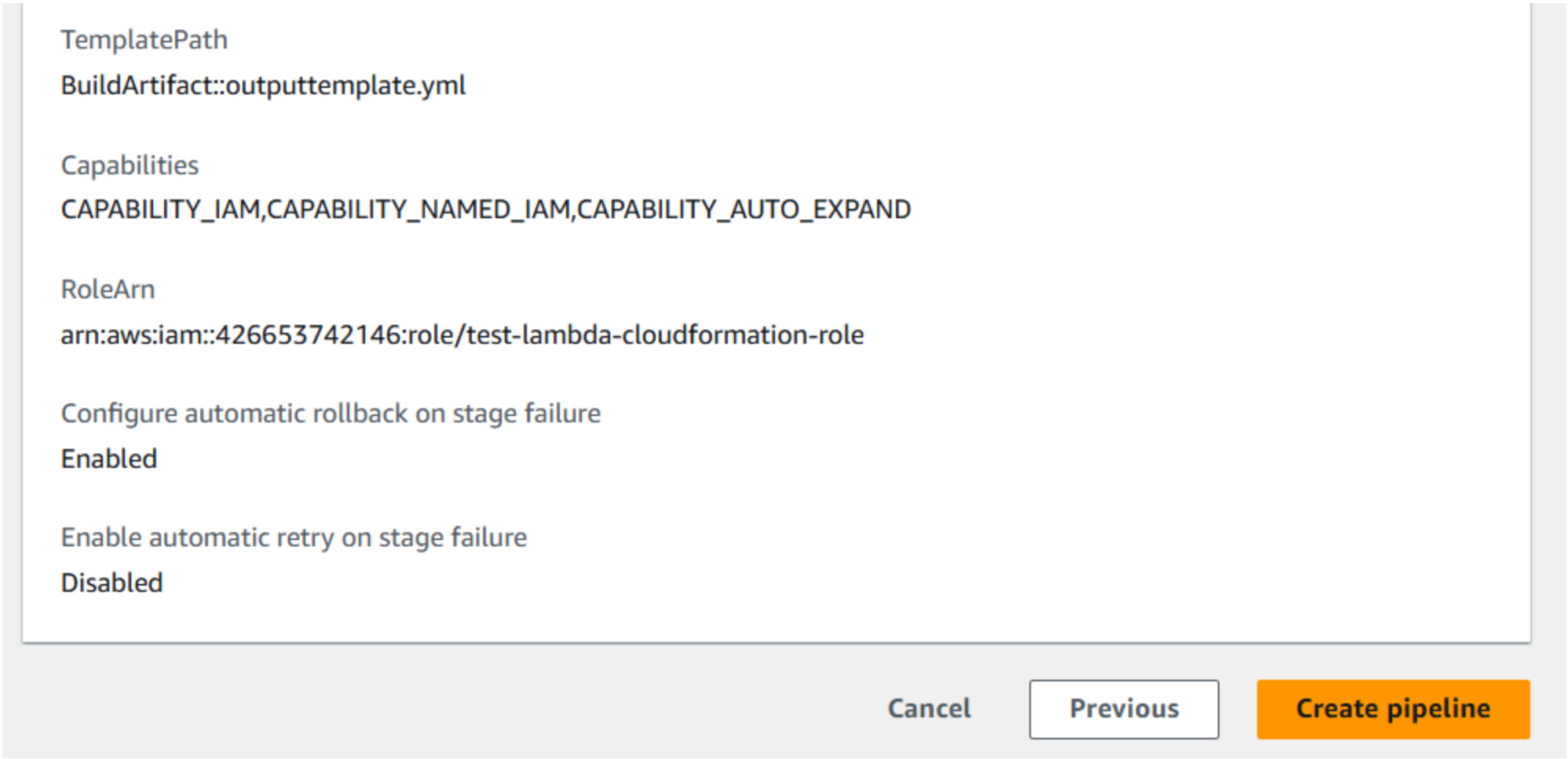
▶ Advanced

☑ Configure automatic rollback on stage failure

☐ Enable automatic retry on stage failure

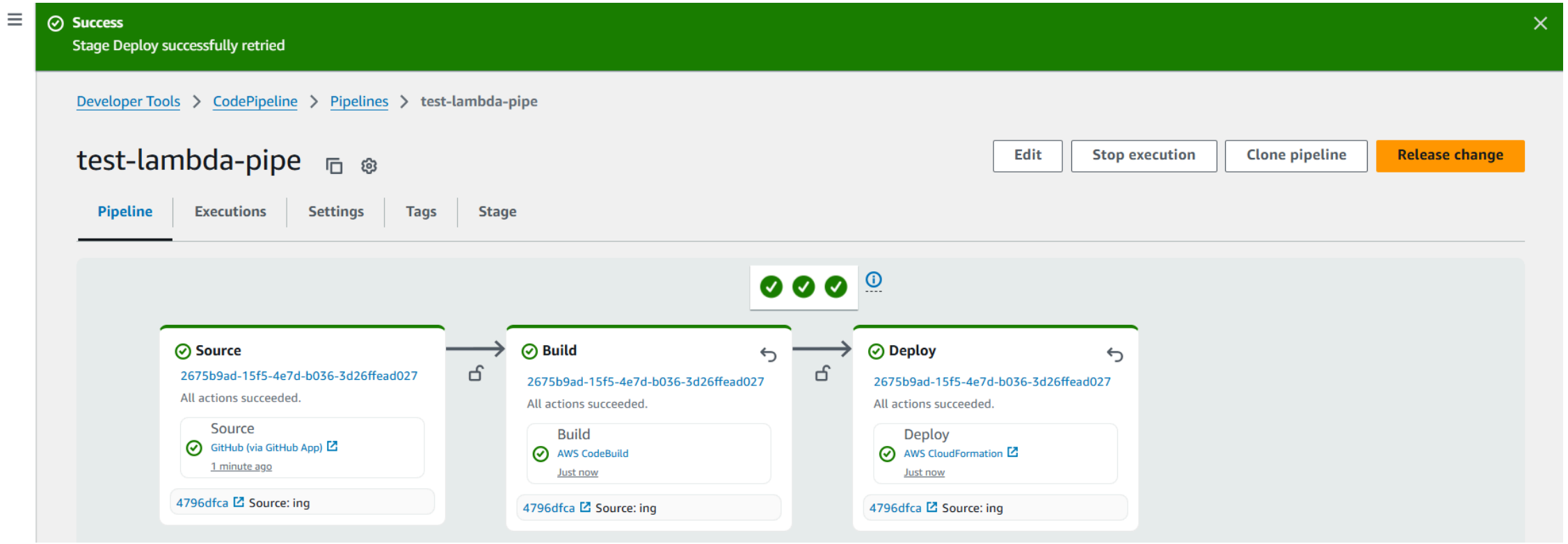
Cancel | Previous | Skip deploy stage | Next

단계8: Create

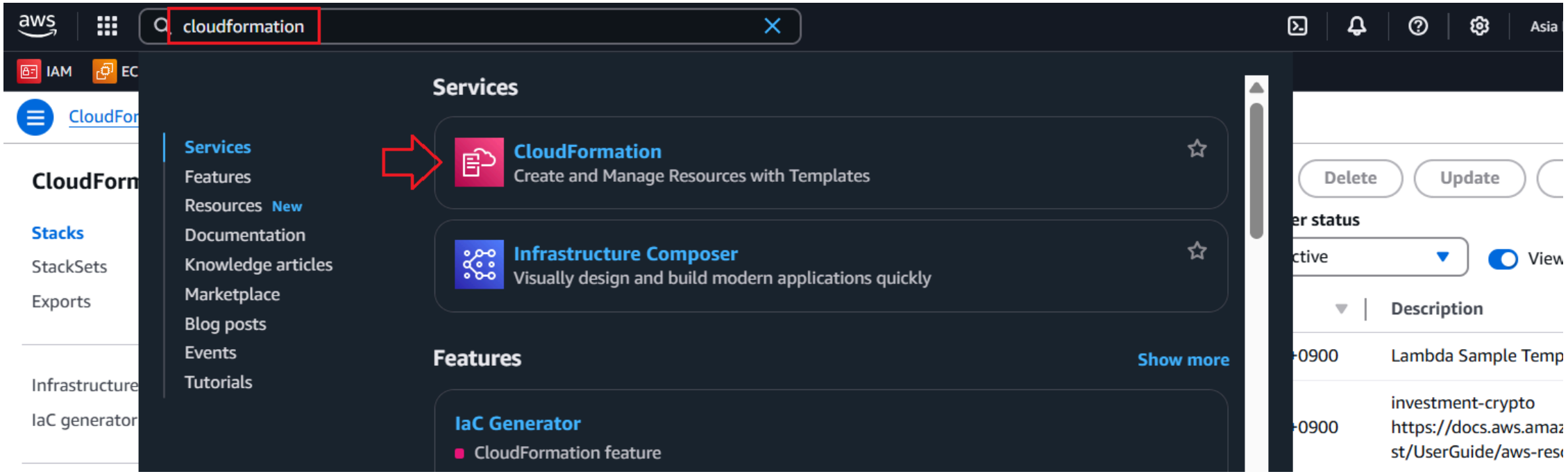

TemplatePath
BuildArtifact::outputtemplate.yml
Capabilities
CAPABILITY_IAM,CAPABILITY_NAMED_IAM,CAPABILITY_AUTO_EXPAND
RoleArn
arn:aws:iam::426653742146:role/test-lambda-cloudformation-role
Configure automatic rollback on stage failure
Enabled
Enable automatic retry on stage failure
Disabled
Cancel
Previous
Create pipeline

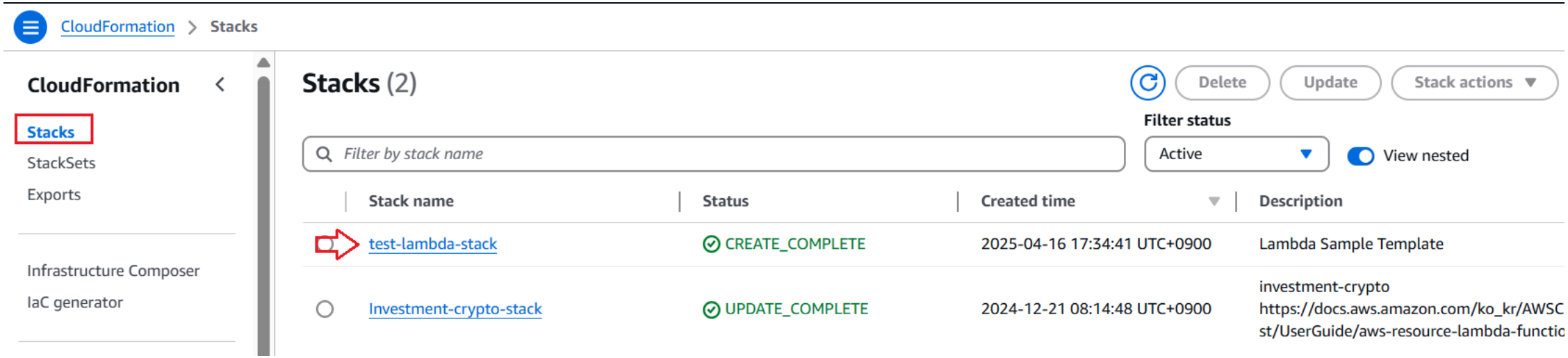
결과 확인

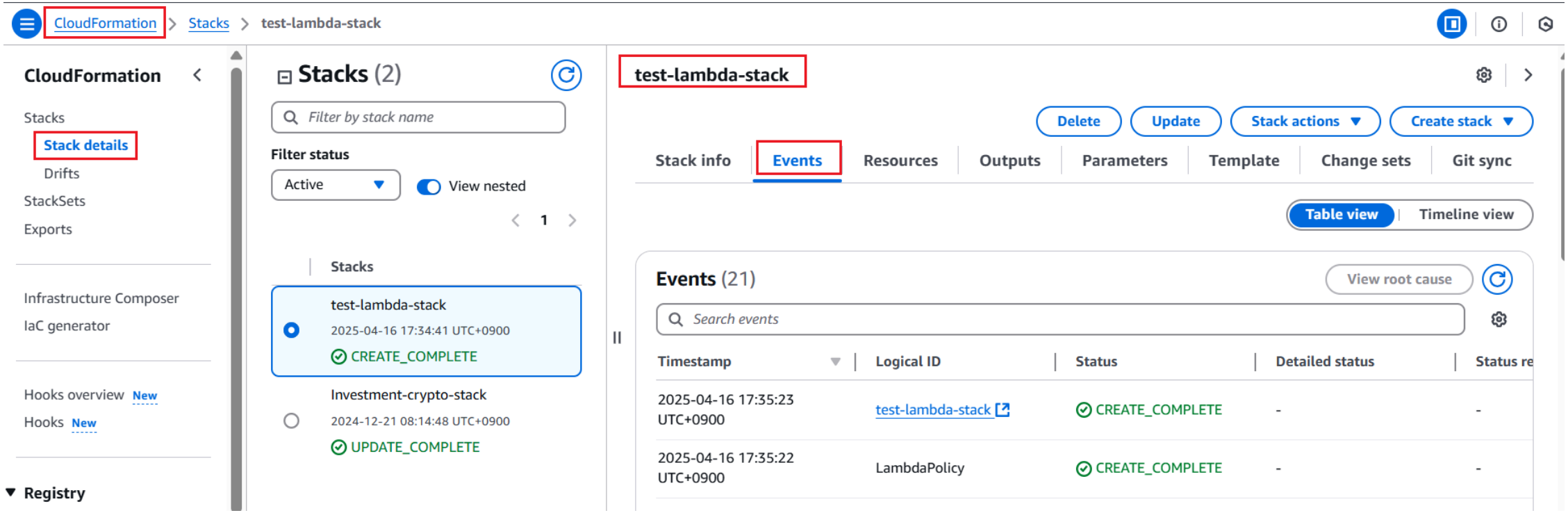
단계1: CodePipeline



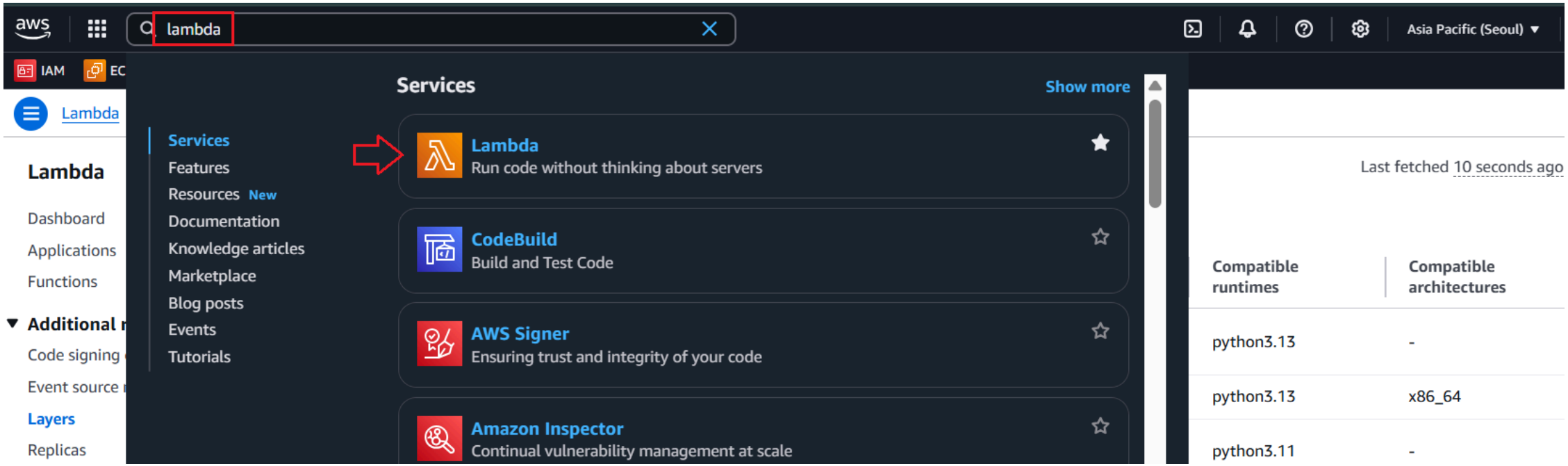
단계2: Cloudformation

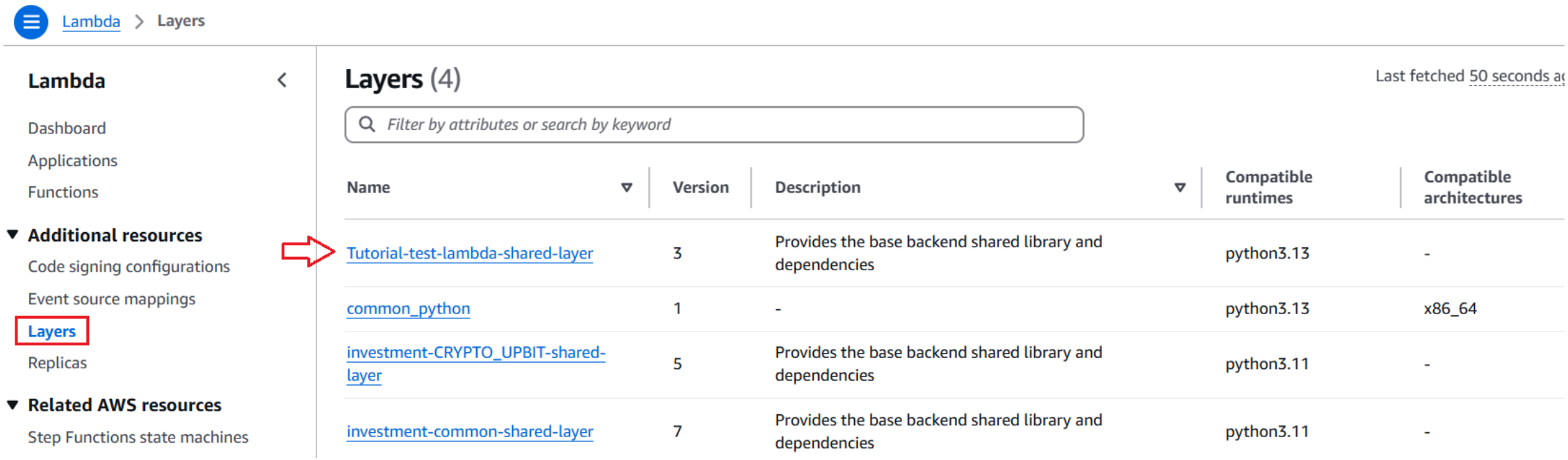



CloudFormation > Stacks
CloudFormation
Stacks
StackSets
Exports
Infrastructure Composer
IaC generator
Stacks (2)
Delete
Update
Stack actions
Filter status
Filter by stack name
Active
View nested
Stack name
Status
Created time
Description
test-lambda-stack
CREATE_COMPLETE
2025-04-16 17:34:41 UTC+0900
Lambda Sample Template
Investment-crypto-stack
UPDATE_COMPLETE
2024-12-21 08:14:48 UTC+0900
investment-crypto
https://docs.aws.amazon.com/ko_kr/AWSC
st/UserGuide/aws-resource-lambda-functic

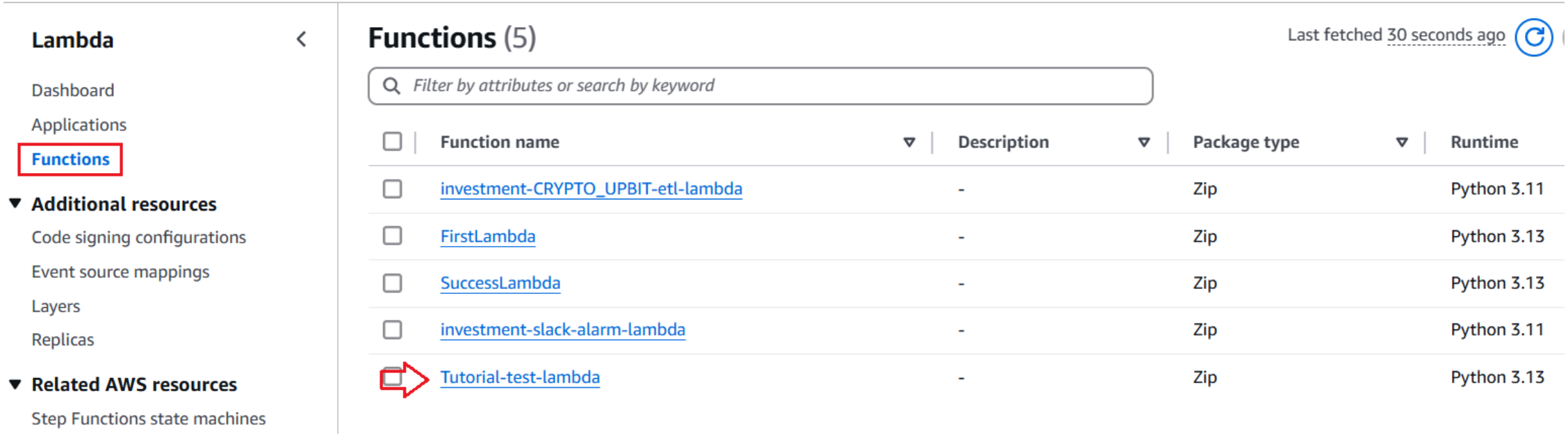

CloudFormation
Stacks
test-lambda-stack
CloudFormation
Stacks
Stack details
Drifts
StackSets
Exports
Infrastructure Composer
IaC generator
Hooks overview New
Hooks New
Registry
Stacks (2)
Filter by stack name
Filter status
Active
View nested
1
Stacks
test-lambda-stack
2025-04-16 17:34:41 UTC+0900
CREATE_COMPLETE
Investment-crypto-stack
2024-12-21 08:14:48 UTC+0900
UPDATE_COMPLETE
test-lambda-stack
Delete
Update
Stack actions
Create stack
Stack info
Events
Resources
Outputs
Parameters
Template
Change sets
Git sync
Table view
Timeline view
Events (21)
View root cause
Search events
Timestamp
Logical ID
Status
Detailed status
Status re
2025-04-16 17:35:23 UTC+0900
test-lambda-stack
CREATE_COMPLETE
-
-
2025-04-16 17:35:22 UTC+0900
LambdaPolicy
CREATE_COMPLETE
-
-

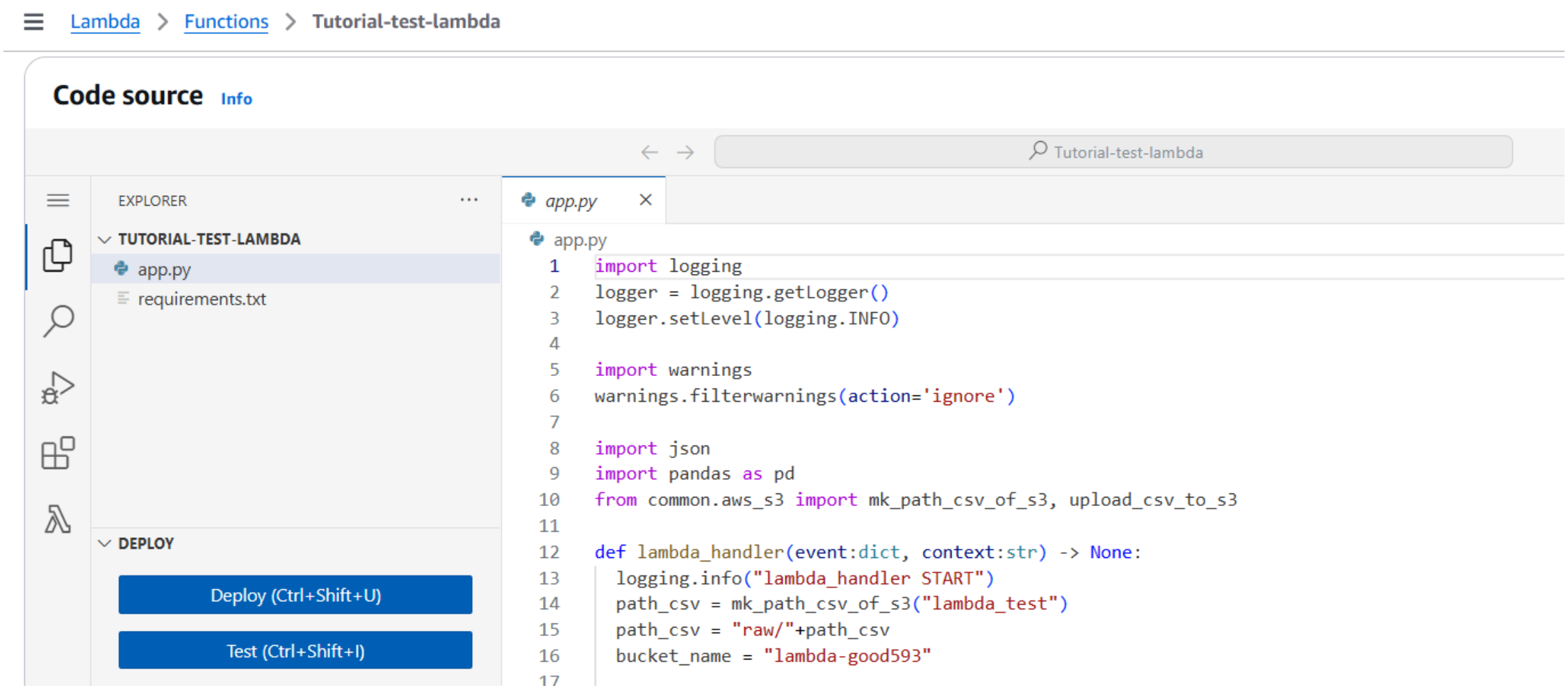
단계3: Lambda Layer

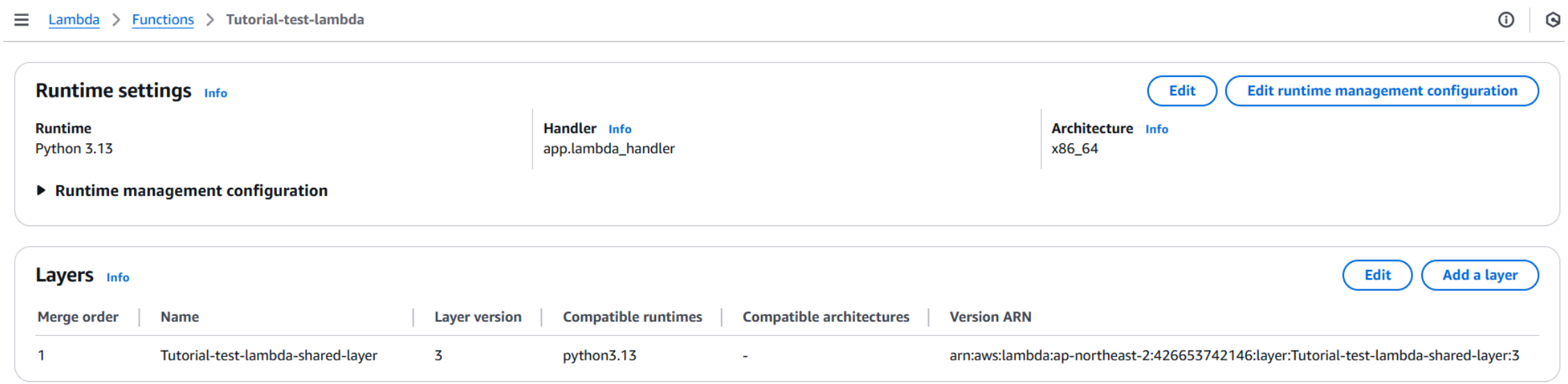



Lambda > Layers
Lambda
Dashboard
Applications
Functions
Additional resources
Code signing configurations
Event source mappings
Layers
Replicas
Related AWS resources
Step Functions state machines
Layers (4)
Last fetched 50 seconds a
Filter by attributes or search by keyword
Name
Version
Description
Compatible runtimes
Compatible architectures
Tutorial-test-lambda-shared-layer
3
Provides the base backend shared library and dependencies
python3.13
-
common_python
1
-
python3.13
x86_64
investment-CRYPTO_UPBIT-shared-layer
5
Provides the base backend shared library and dependencies
python3.11
-
investment-common-shared-layer
7
Provides the base backend shared library and dependencies
python3.11
-

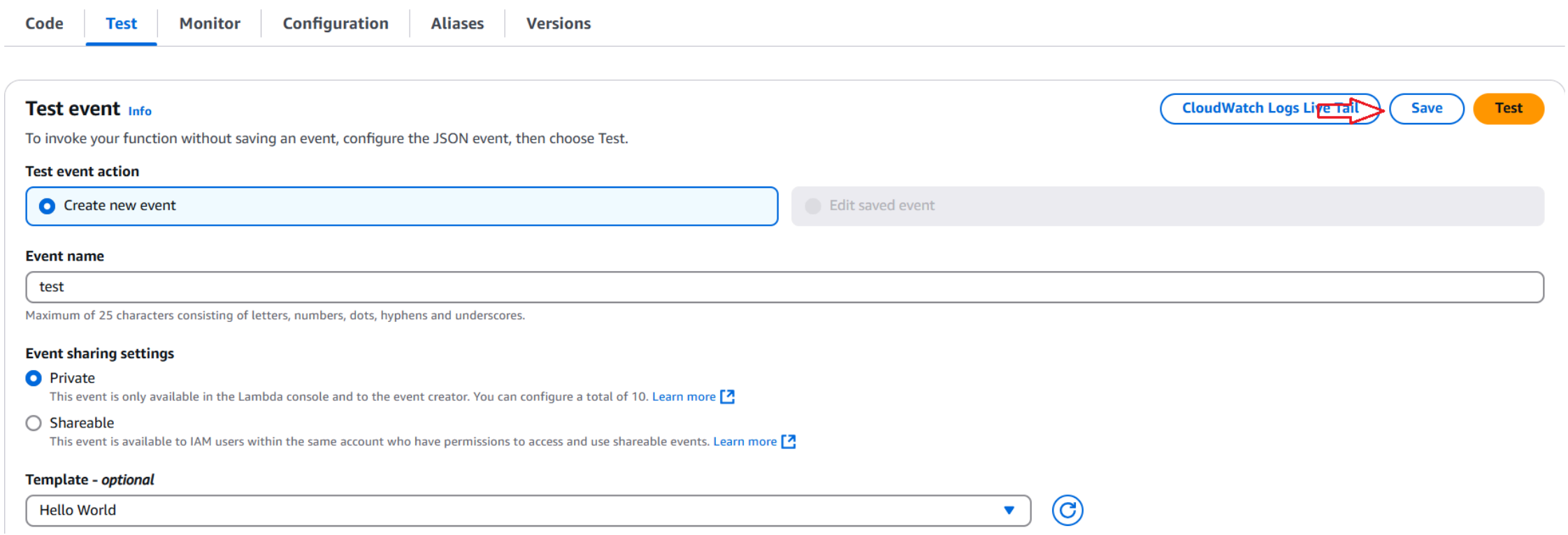
단계4: Lambda

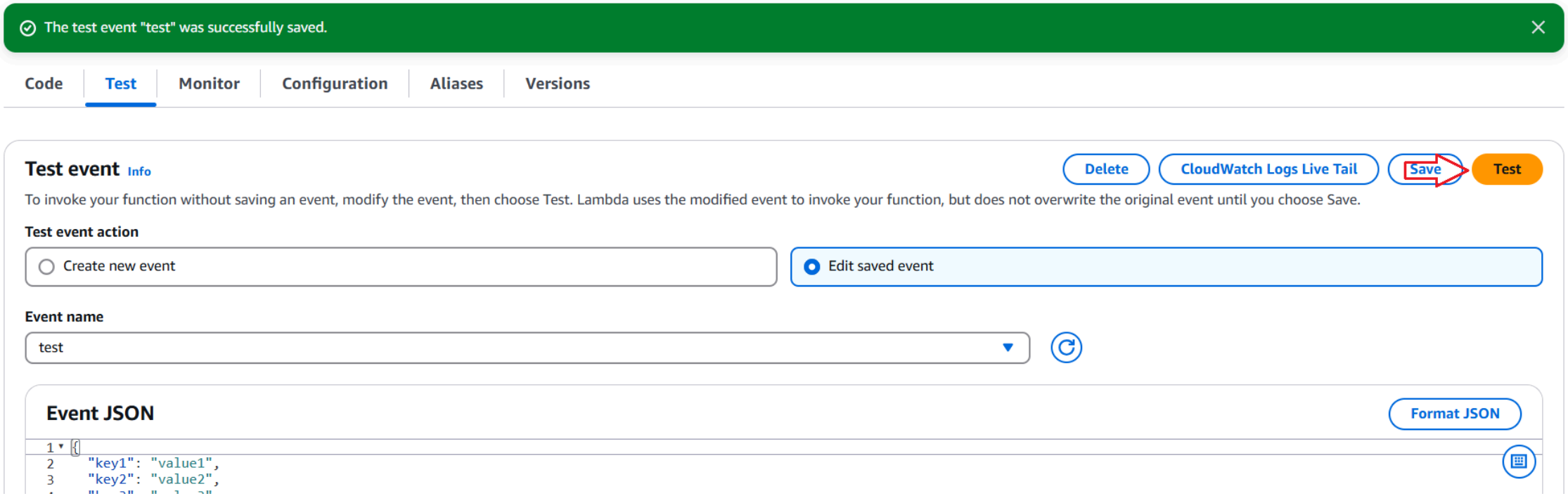

Lambda
Dashboard
Applications
Functions
Additional resources
Code signing configurations
Event source mappings
Layers
Replicas
Related AWS resources
Step Functions state machines
Functions (5)
Last fetched 30 seconds ago
Filter by attributes or search by keyword
Function name
Description
Package type
Runtime
investment-CRYPTO_UPBIT-etl-lambda - Zip Python 3.11
FirstLambda - Zip Python 3.13
SuccessLambda - Zip Python 3.13
investment-slack-alarm-lambda - Zip Python 3.11
Tutorial-test-lambda - Zip Python 3.13

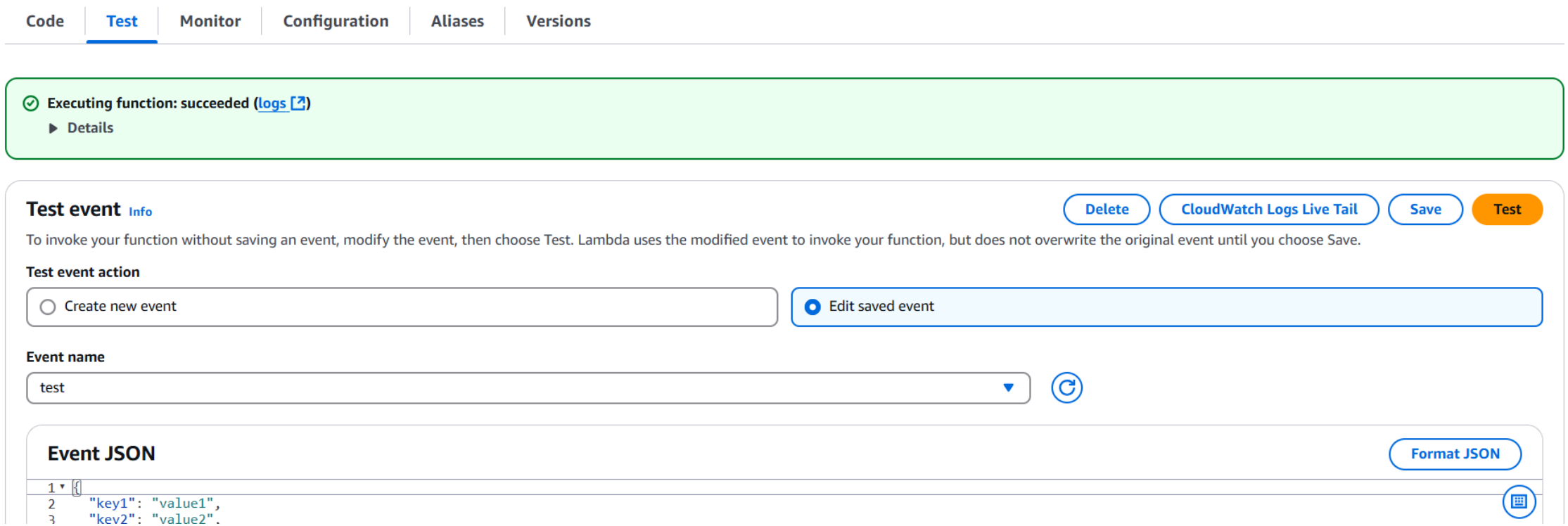

Lambda > Functions > Tutorial-test-lambda
Code source Info
Tutorial-test-lambda
EXPLORER
TUTORIAL-TEST-LAMBDA
app.py
requirements.txt
DEPLOY
Deploy (Ctrl+Shift+U)
Test (Ctrl+Shift+I)
app.py
app.py
1 import logging
2 logger = logging.getLogger()
3 logger.setLevel(logging.INFO)
4
5 import warnings
6 warnings.filterwarnings(action='ignore')
7
8 import json
9 import pandas as pd
10 from common.aws_s3 import mk_path_csv_of_s3, upload_csv_to_s3
11
12 def lambda_handler(event:dict, context:str) -> None:
13 logging.info("lambda_handler START")
14 path_csv = mk_path_csv_of_s3("lambda_test")
15 path_csv = "raw/"+path_csv
16 bucket_name = "lambda-good593"


Lambda > Functions > Tutorial-test-lambda
Runtime settings Info
Edit
Edit runtime management configuration
Runtime
Python 3.13
Handler Info
app.lambda_handler
Architecture Info
x86_64
Runtime management configuration
Layers Info
Edit
Add a layer
Merge order
Name
Layer version
Compatible runtimes
Compatible architectures
Version ARN
1
Tutorial-test-lambda-shared-layer
3
python3.13
-
arn:aws:lambda:ap-northeast-2:426653742146:layer:Tutorial-test-lambda-shared-layer:3

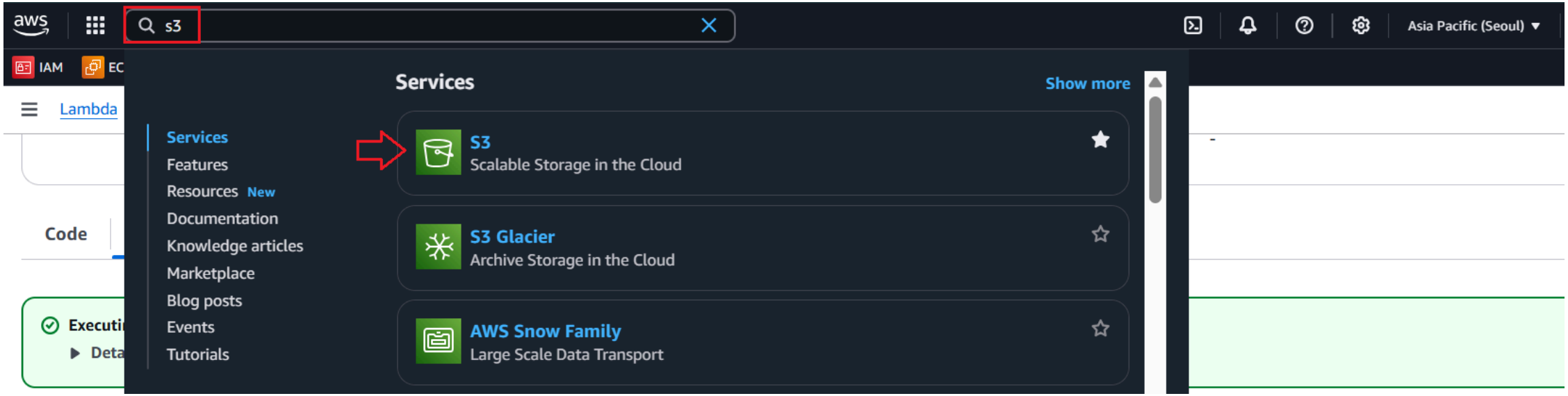
단계5: Lambda 테스트

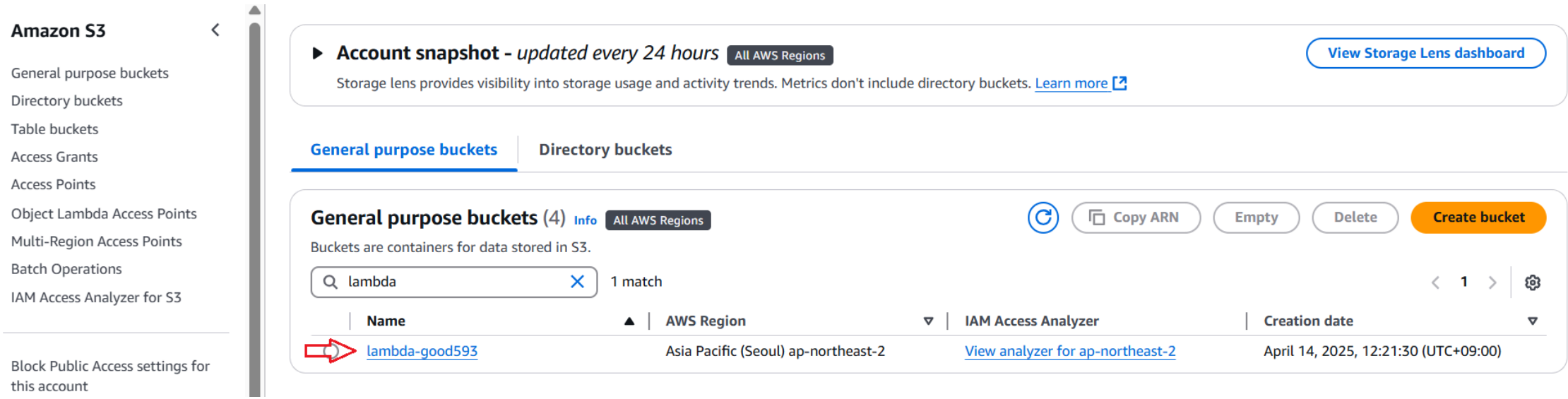


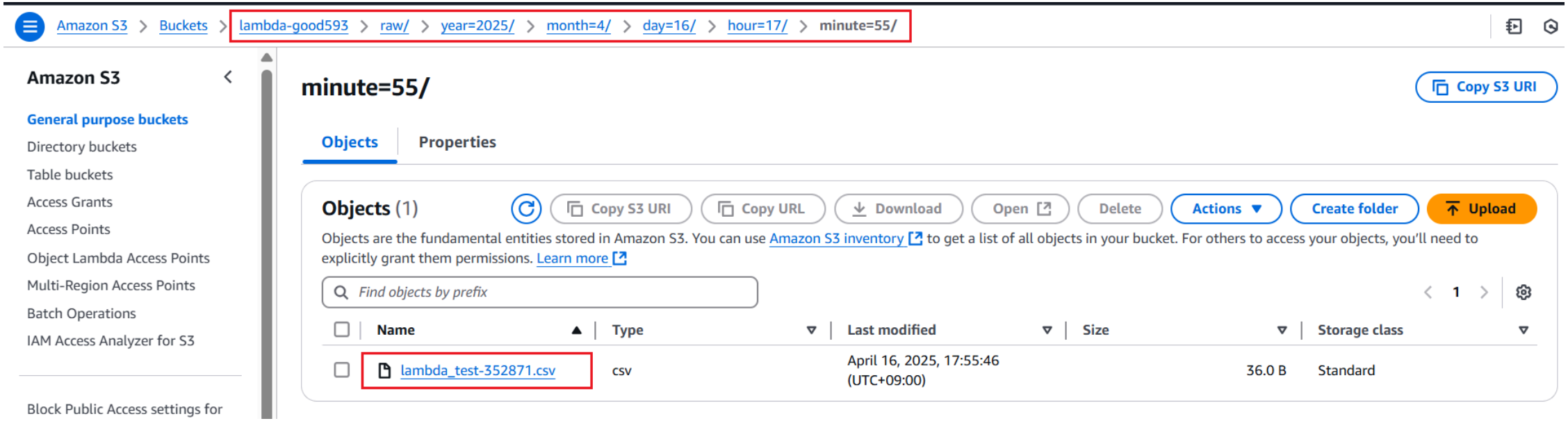

The test event "test" was successfully saved.
Code
Test
Monitor
Configuration
Aliases
Versions
Test event Info
Delete
CloudWatch Logs Live Tail
Save
Test
To invoke your function without saving an event, modify the event, then choose Test. Lambda uses the modified event to invoke your function, but does not overwrite the original event until you choose Save.
Test event action
Create new event
Edit saved event
Event name
test
Event JSON
Format JSON
1 {
2 "key1": "value1",
3 "key2": "value2",


Code
Test
Monitor
Configuration
Aliases
Versions
Executing function: succeeded (logs)
Details
Test event Info
Delete
CloudWatch Logs Live Tail
Save
Test
To invoke your function without saving an event, modify the event, then choose Test. Lambda uses the modified event to invoke your function, but does not overwrite the original event until you choose Save.
Test event action
Create new event
Edit saved event
Event name
test
Event JSON
Format JSON
1 {
2 "key1": "value1",
3 "key2": "value2",

단계6: S3 데이터 확인


aws
s3
Asia Pacific (Seoul)
IAM
EC
Lambda
Code
Services
Features
Resources New
Documentation
Knowledge articles
Marketplace
Blog posts
Events
Tutorials
Services
Show more
S3
Scalable Storage in the Cloud
S3 Glacier
Archive Storage in the Cloud
AWS Snow Family
Large Scale Data Transport


Amazon S3
General purpose buckets
Directory buckets
Table buckets
Access Grants
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Account snapshot - updated every 24 hours
All AWS Regions
Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. Learn more
View Storage Lens dashboard
General purpose buckets
Directory buckets
General purpose buckets (4) Info
All AWS Regions
Buckets are containers for data stored in S3.
Copy ARN
Empty
Delete
Create bucket
lambda
1 match
1
Name
AWS Region
IAM Access Analyzer
Creation date
lambda-good593
Asia Pacific (Seoul) ap-northeast-2
View analyzer for ap-northeast-2
April 14, 2025, 12:21:30 (UTC+09:00)


Amazon S3 > Buckets > lambda-good593 > raw/ > year=2025/ > month=4/ > day=16/ > hour=17/ > minute=55/
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Access Grants
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for
minute=55/
Copy S3 URI
Objects
Properties
Objects (1)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
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
Find objects by prefix
1
Name
Type
Last modified
Size
Storage class
lambda_test-352871.csv
csv
April 16, 2025, 17:55:46 (UTC+09:00)
36.0 B
Standard