

Step 1: Setup an AWS Elastic Container Registry with a repository

The screenshot shows the AWS Elastic Container Registry (ECR) console. The left sidebar contains the navigation menu with 'Private registry' selected. The main content area displays 'Private repositories (1)' with a search bar and a table of repositories. The table has columns for Repository name, URI, Created at, Tag immutability, and Encryption type. A single repository is listed: 'selvicourseendprojectrepo' with URI '18570588843.dkr.ecr.us-east-1.amazonaws.com/selvicourseendprojectrepo', created at 'July 19, 2025, 07:21:11 (UTC-07)', tag immutability 'Mutable', and encryption type 'AES-256'. Action buttons like 'View push commands', 'Delete', 'Actions', and 'Create repository' are visible at the top right.

Repository name	URI	Created at	Tag immutability	Encryption type
selvicourseendprojectrepo	18570588843.dkr.ecr.us-east-1.amazonaws.com/selvicourseendprojectrepo	July 19, 2025, 07:21:11 (UTC-07)	Mutable	AES-256

Step 2: Setup a GitHub repository and clone it to local machine

Anikasel / Selvi_CourseEndProject

Search Type to search

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Selvi_CourseEndProject

Public

Pin

Watch 0

Fork

main 1 Branch 0 Tags

Go to file

Add file

<> Code

About

selvi First Commit e107894 · 2 minutes ago 1 Commit

.mvn/wrapper	First Commit	2 minutes ago
src	First Commit	2 minutes ago
.gitignore	First Commit	2 minutes ago
Dockerfile	First Commit	2 minutes ago
README.md	First Commit	2 minutes ago
buildspec.yml	First Commit	2 minutes ago
mvnw	First Commit	2 minutes ago
mvnw.cmd	First Commit	2 minutes ago
pom.xml	First Commit	2 minutes ago

README

springboot-aws-deploy

No description, README, Activity, 0 stars, 0 watching, 0 forks

No releases published, Create a new release

No packages published, Publish your first package

Jul 19, 2025, 7:55 AM PDT

Languages, Java 83.5%

Suggested workflows

```

MINGW64:/c/Selvi/CourseEndProject/Selvi_CourseEndProject

git config --global user.email "you@example.com"
git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'selvi@Selvi-TUF.(none)')

selvi@Selvi-TUF MINGW64 /c/Selvi/CourseEndProject/Selvi_CourseEndProject (main)
$ git config user.name "selvi"

selvi@Selvi-TUF MINGW64 /c/Selvi/CourseEndProject/Selvi_CourseEndProject (main)
$ git config user.email "selvi@abc.com"

selvi@Selvi-TUF MINGW64 /c/Selvi/CourseEndProject/Selvi_CourseEndProject (main)
$ git commit -m "First Commit"
[main (root-commit) e107894] First Commit
13 files changed, 708 insertions(+)
create mode 100644 .gitignore
create mode 100644 .mvn/wrapper/maven-wrapper.jar
create mode 100644 .mvn/wrapper/maven-wrapper.properties
create mode 100644 Dockerfile
create mode 100644 README.md
create mode 100644 buildspec.yml
create mode 100644 mvnw
create mode 100644 mvnw.cmd
create mode 100644 pom.xml
create mode 100644 src/main/java/com/example/springbootawsdeploy/SpringbootAwsDeployApplication.java
create mode 100644 src/main/java/com/example/springbootawsdeploy/TestController.java
create mode 100644 src/main/resources/application.properties
create mode 100644 src/test/java/com/example/springbootawsdeploy/SpringbootAwsDeployApplicationTests.java

selvi@Selvi-TUF MINGW64 /c/Selvi/CourseEndProject/Selvi_CourseEndProject (main)
$ git push
Enumerating objects: 29, done.
Counting objects: 100% (29/29), done.
Delta compression using up to 16 threads
Compressing objects: 100% (20/20), done.
Writing objects: 100% (29/29), 64.44 KiB | 10.74 MiB/s, done.
Total 29 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Anikasel/Selvi_CourseEndProject.git
 * [new branch]      main -> main

selvi@Selvi-TUF MINGW64 /c/Selvi/CourseEndProject/Selvi_CourseEndProject (main)
$

```

Step 3: Create a Code Build project

aws

Search

[Alt+S]

Developer Tools

CodeBuild

► Source • CodeCommit

► Artifacts • CodeArtifact

▼ Build • CodeBuild

Getting started

Build projects

Build project

Settings

Build history

Report groups

Report history

Compute fleets

New

Account metrics

▼ Related integrations

Jenkins

GitHub Actions

New

GitLab runners

New

► Deploy • CodeDeploy

► Pipeline • CodePipeline

✔ Build started

You have successfully started the following build: Selvi-CodeBuildProject:441d022e-eb52-44bf-9841-19682b0e16c2

Developer Tools > CodeBuild > Build projects > Selvi-CodeBuildProject > Selvi-CodeBuildProject:441d022e-eb52-44bf-9841-19682b0e16c2

Selvi-CodeBuildProject:441d022e-eb52-44bf-9841-19682b0e16c2

Stop

Build status

Status

✔ Succeeded

Initiator

SelviRole/odl_user_1798140

Build ARN

arn:aws:codebuild:us-east-1:185705888843:build/Selvi-CodeBuildProject:441d022e-eb52-44bf-9841-19682b0e16c2

Start time

Jul 19, 2025 8:14 AM (UTC-7:00)

End time

Jul 19, 2025 8:15 AM (UTC-7:00)

Build number

1

Build logs

Phase details

Reports

Environment variables

Build details

Resource utilization

Name	Status	Context	Duration	Start time
SUBMITTED	✔ Succeeded	-	<1 sec	Jul 19, 2025 8:14 AM (UTC-7:00)
QUEUED	✔ Succeeded	-	<1 sec	Jul 19, 2025 8:14 AM (UTC-7:00)
PROVISIONING	✔ Succeeded	-	4 secs	Jul 19, 2025 8:14 AM (UTC-7:00)

Step 4: Establish an ECS cluster

aws

Search

[Alt+S]

Amazon Elastic Container Service

Clusters

SelviECSCluster

Services

Amazon Elastic Container Service

Clusters

Namespaces

Task definitions

Account settings

Amazon ECR

Repositories

AWS Batch

Documentation

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Tell us what you think

On June 25, 2025, Amazon ECS changed the default log driver mode from blocking to non-blocking to improve application availability during

SelviECSCluster

July 19, 2025 at 0

Cluster overview

ARN

arn:aws:ecs:us-east-1:185705888843:cluster/SelviECSCluster

Status

Active

CloudWatch monitoring

Default

Services

Draining

Active

-

Tasks

Pending

Services

Tasks

Infrastructure

Metrics

Scheduled tasks

Configuration

Tags

Services (0)

Info

Manage tags

Filter launch type

Any launch type

Filter services

Any services

Filter services by value

Service name

ARN

Status

Service...

Created at

Deployed at

No services

No services to display.

aws

Search

[Alt+S]

Amazon Elastic Container Service

Task definitions

SelviECSTaskDefinition

Revision 1

Containers

Amazon Elastic Container Service

Clusters

Namespaces

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Tell us what you think

On June 25, 2025, Amazon ECS changed the default log driver mode from blocking to non-blocking to improve application availability during CloudWatch outages. [Learn more](#)

Task definition successfully created

SelviECSTaskDefinition:1 has been successfully created. You can use this task definition to deploy a service or run a task.

View task definition

SelviECSTaskDefinition:1

Deploy

Actions

Create new revision

Overview

Info

ARN

arn:aws:ecs:us-east-1:185705888843:task-definition/SelviECSTaskDefinition:1

Status

ACTIVE

Time created

July 19, 2025 at 09:12 (UTC-7:00)

App environment

Fargate

Task role

-

Task execution role

ecsTaskExecutionRole

Operating system/Architecture

Linux/X86_64

Network mode

awsvpc

Fault injection

Turned off

Containers

JSON

Task placement

Volumes (0)

Requires attributes

Tags

Task size

Task CPU

1,024 units (1 vCPU)

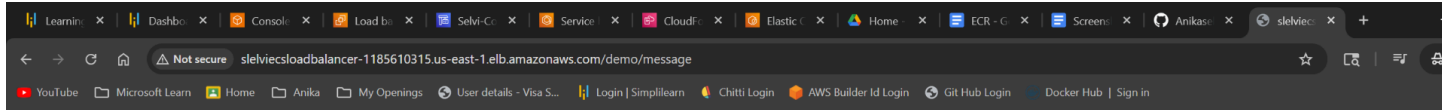
Task memory

3,072 MiB (3 GB)

Task CPU maximum allocation for containers

Task memory maximum allocation for container memory reservation

First message from AWS Ecs



Second message from AWS Ecs

Step 5. Construct and Execute a CodePipeline to automate the deployment process

