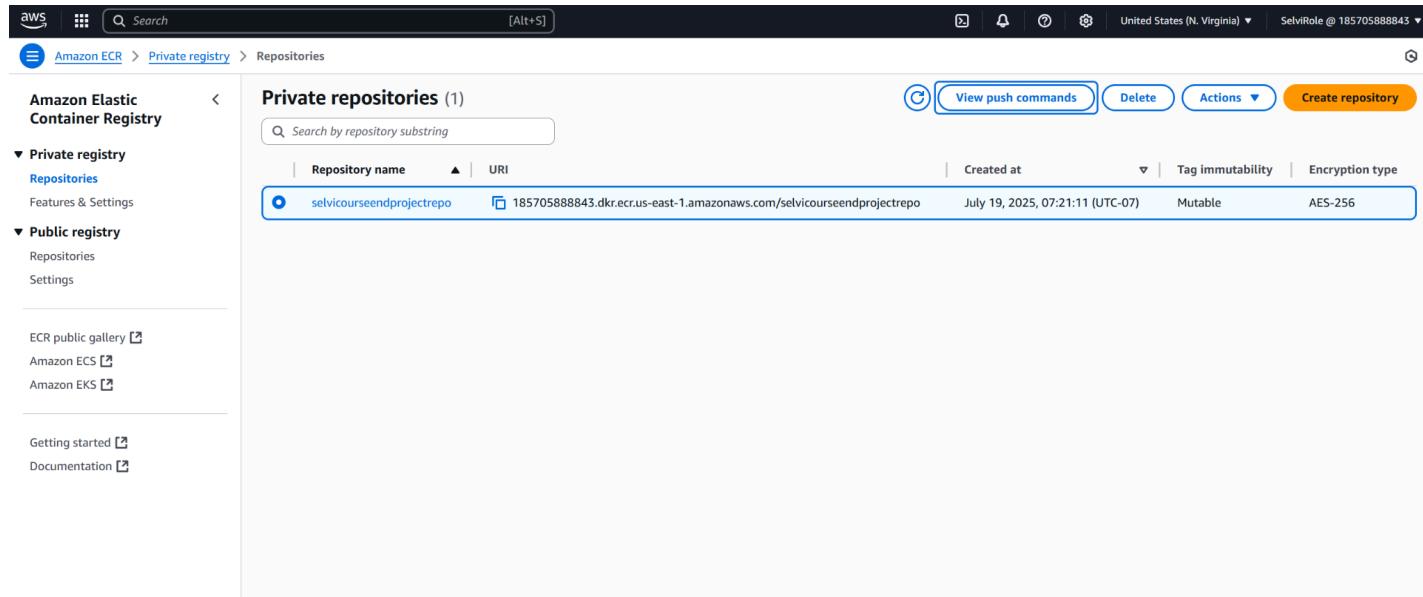


Step 1: Setup an AWS Elastic Container Registry with a repository



The screenshot shows the AWS ECR console interface. On the left, there's a navigation sidebar with sections for Amazon Elastic Container Registry (Private registry and Public registry), ECR public gallery, Amazon ECS, and Amazon EKS. The main area is titled "Private repositories (1)" and lists a single repository named "selvicourseendprojectrepo". The repository details show it was created on July 19, 2025, at 07:21:11 (UTC-07), is mutable, and uses AES-256 encryption. There are buttons for "View push commands", "Delete", "Actions", and "Create repository".

Repository name	URI	Created at	Tag immutability	Encryption type
selvicourseendprojectrepo	185705888843.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

Type to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Selvi_CourseEndProject Public

Pin Watch 0 Fork 0

main 1 Branch 0 Tags Go to file Add file Code About

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

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 min Jul 19, 2025, 7:55 AM PDT
📄 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

Packages, No packages published, Publish your first package

Languages, Java 83.5%

Suggested workflow

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 min Jul 19, 2025, 7:55 AM PDT

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 releases published Create a new release

Java 83.5%

```
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

The screenshot shows the AWS CodeBuild console. The left sidebar has a tree view with categories like Source, Artifacts, Build, Report groups, Compute fleets, Account metrics, Related integrations (Jenkins, GitHub Actions, GitLab runners), Deploy, and Pipeline. The 'Build project' node under 'Build' is selected. The main content area shows a green header bar with the message 'Build started' and the build ID 'Selvi-CodeBuildProject:441d022e-eb52-44bf-9841-19682b0e16c2'. Below this is a breadcrumb trail: Developer Tools > CodeBuild > Build projects > Selvi-CodeBuildProject > Selvi-CodeBuildProject:441d022e-eb52-44bf-9841-19682b0e16c2. A 'Stop build' button is visible on the right. The main content area is titled 'Selvi-CodeBuildProject:441d022e-eb52-44bf-9841-19682b0e16c2'. It contains a 'Build status' section with details: 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)), and Build number (1). Below this is a table titled 'Phase details' with columns: Name, Status, Context, Duration, and Start time. The table shows three rows: SUBMITTED (Status: Succeeded, Context: -, Duration: <1 sec, Start time: Jul 19, 2025 8:14 AM (UTC-7:00)), QUEUED (Status: Succeeded, Context: -, Duration: <1 sec, Start time: Jul 19, 2025 8:14 AM (UTC-7:00)), and PROVISIONING (Status: Succeeded, Context: -, Duration: 4 secs, Start time: Jul 19, 2025 8:14 AM (UTC-7:00)).

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] | CloudWatch monitoring | Default | July 19, 2025 at 0

Amazon Elastic Container Service > Clusters > SelviECSCluster > Services

Amazon Elastic Container Service

- Clusters
- Namespaces
- Task definitions
- Account settings

Amazon ECR

- Repositories

AWS Batch

Documentation

- Discover products
- Subscriptions

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

SelviECSCluster

July 19, 2025 at 0

Cluster overview

ARN	Status	CloudWatch monitoring
arn:aws:ecs:us-east-1:18570588843:cluster/SelviECSCluster	Active	(Default)
Services		Tasks
Draining	Active	Pending
-	-	-

Services Tasks Infrastructure Metrics Scheduled tasks Configuration Tags

Services (0) Info

Filter services by value

Service name	ARN	Status	Service...	Created at	Deplo...
No services	No services to display.				

Manage tags

Filter launch type Any launch type Any service

Filter services Any service

aws | Search [Alt+S] | United States (N. Virginia) | SelviRole @ 18570588843

Amazon Elastic Container Service > Task definitions > SelviECSTaskDefinition > Revision 1 > Containers

Amazon Elastic Container Service

- Clusters
- Namespaces
- Task definitions**
- Account settings

Amazon ECR

- Repositories

AWS Batch

Documentation

- Discover products
- Subscriptions

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.

SelviECSTaskDefinition:1

View task definition Deploy Actions Create new revision

Overview Info

ARN	Status	Time created	App environment
arn:aws:ecs:us-east-1:18570588843:task-definition/SelviECSTaskDefinition:1	ACTIVE	July 19, 2025 at 09:12 (UTC-7:00)	Fargate
Task role	Task execution role	Operating system/Architecture	Network mode
-	ecsTaskExecutionRole	Linux/X86_64	awsvpc
Fault injection			
(Turned off)			

Containers JSON Task placement Volumes (0) Requires attributes Tags

Task size

Task CPU	Task memory
1,024 units (1 vCPU)	3,072 MiB (3 GB)
Task CPU maximum allocation for containers	Task memory maximum allocation for container memory reservation

Screenshot of the AWS Elastic Container Service (ECS) console showing the service configuration for "SelviECSService".

The left sidebar shows navigation links for Amazon Elastic Container Service, Clusters, Namespaces, Task definitions, Account settings, Amazon ECR, Repositories, AWS Batch, Documentation, Discover products, and Subscriptions.

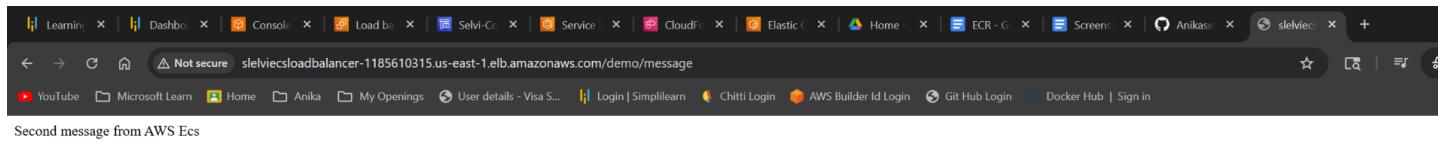
The main content area displays the following information:

- Task definition successfully created:** SelviECSTaskDefinition:1 has been successfully created. You can use this task definition to deploy a service or run a task.
- SelviECSService deployment is in progress:** It takes a few minutes.
- SelviECSService Info:** Last updated July 19, 2025 at 09:35 (UTC-7:00). Buttons for Delete service and Update service.
- Introducing the new built-in blue/green deployment configuration for ECS services:** With Amazon ECS native blue/green deployments, you can validate new service revisions before directing production traffic to them. This approach provides a safer way to deploy changes with the ability to quickly roll back if needed. [Learn more](#)
- Service overview:**
 - Status: Active
 - Tasks (1 Desired): 0 Pending | 1 Running
 - Task definition: revision SelviECSTaskDefinition:1
 - Deployment status: In progress
- Health and metrics:** Tab selected. Status: Not secure. Service name: SelviECSService. Service ARN: arn:aws:ecs:us-east-1:18570588843:service/SelviECSCluster/SelviECSService. Deployments current state: 2 Failed tasks | 1 Completed task. Created at: July 19, 2025 at 09:24 (UTC-7:00).

Screenshot of a web browser showing the URL: selviecsloadbalancer-1185610315.us-east-1.elb.amazonaws.com/demo/data.

The browser tab bar includes: Learning, Dashboard, Console, Load bal., Selvi-C., Service, CloudFront, Elastic C., ECR, Screen, Anika, selviec..., YouTube, Microsoft Learn, Home, My Openings, User details - Visa S..., Login | Simplilearn, Chitti Login, AWS Builder Id Login, GitHub Login, Docker Hub | Sign in.

First message from AWS Ecs



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

