

1. Setup a highly available ecs cluster with load balancer and dynamic port mapping.

NOTE:

- 1. Your cluster should maintain atleast 6 tasks at any point of time and should be highly available across multiple AZ's.**
- 2. Use the below image from deployment: sabair0509/hiring-app:works**

Go to AWS ECS



Create an instance and login to that instance

- yum install docker -y**
- systemctl start docker**
- docker pull sabair0509/hiring-app:36**

```
[root@ip-172-31-6-204 ~]# docker pull sabair0509/hiring-app:36
36: Pulling from sabair0509/hiring-app
a3ed95caeb02: Pull complete
c06482b548c8: Pull complete
954f07d4dc14: Pull complete
0bd71cf3b59f: Pull complete
12d3f8630eca: Pull complete
d6e16c3ae29a: Pull complete
ea9df2460d2a: Pull complete
66a4ea6d102d: Pull complete
2b6aec0d35e: Pull complete
e82f1fd0d189: Pull complete
Digest: sha256:0fa8af7e47b72e474a94b90abc19db5dd3746c790aa9dd8536923ec643da5db
Status: Downloaded newer image for sabair0509/hiring-app:36
docker.io/sabair0509/hiring-app:36
[root@ip-172-31-6-204 ~]# |
```

- **aws configure**

```
[root@ip-172-31-6-204 ~]# aws configure
AWS Access Key ID [None]: AKIATNTADWLT7LBDPY4D
AWS Secret Access Key [None]: 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
Default region name [None]: us-east-1
Default output format [None]: json
```

Go to ecr create repository

- **mujahid/hiring-app**

The screenshot shows the AWS ECR Public Registry interface. On the left, there's a navigation sidebar with 'Amazon Elastic Container Service' and two collapsed sections: 'Private registry' and 'Public registry'. Under 'Public registry', 'Repositories' is selected. The main area is titled 'Public repositories (1)'. It lists one repository: 'mujahid/hiring-app'. To the right of the repository name is its URI: 'public.ecr.aws/b8f1p5s2/mujahid/hiring-app'. A tooltip 'Repository URI copied' appears over the URI link. At the top right of the main area, there are buttons for 'View push commands', 'Delete', 'Actions', and 'Create repository'. The top bar also shows the account ID '2353-5102-8455' and the region 'Europe (Stockholm)'.

Tag the pulled image to your ecr repository.

- **aws ecr-public get-login-password --region us-east-1 | docker login --username AWS --password-stdin public.ecr.aws/b8f1p5s2**
- **docker tag sabair0509/hiring-app:36 public.ecr.aws/b8f1p5s2/mujahid/hiring-app:latest**

```
[root@ip-172-31-6-204 ~]# docker tag sabair0509/hiring-app:36 public.ecr.aws/b8f1p5s2/mujahid/hiring-app:latest
[root@ip-172-31-6-204 ~]# dockerimages
-bash: dockerimages: command not found
[root@ip-172-31-6-204 ~]# docker images
REPOSITORY                      TAG      IMAGE ID      CREATED     SIZE
sabair0509/hiring-app           36       3c1545143dd9  2 years ago  493MB
public.ecr.aws/b8f1p5s2/mujahid/hiring-app   latest   3c1545143dd9  2 years ago  493MB
```

- **docker push public.ecr.aws/b8f1p5s2/mujahid/hiring-app**

```
[root@ip-172-31-6-204 ~]# aws ecr-public get-login-password --region us-east-1 | docker login --username AWS --password-stdin
public.ecr.aws/b8f1p5s2
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[root@ip-172-31-6-204 ~]# docker push public.ecr.aws/b8f1p5s2/mujahid/hiring-app:latest
The push refers to repository [public.ecr.aws/b8f1p5s2/mujahid/hiring-app]
94821ec6b226: Pushed
5f70bf18a086: Pushed
3d7c/b65abb2: Pushed
c8252e277764: Pushed
4e1fc224818: Pushed
0d059c7d8519: Pushed
0e413cd50c1e: Pushed
3770fb9237e: Pushed
e3e44bf3000f: Pushed
fd97e4a10f39: Pushed
latest: digest: sha256:e579175da91c1a61eeb3e3875f28a721a53f2a86354ed865f7426b238298fc1e size: 4887
[root@ip-172-31-6-204 ~]# docker images
REPOSITORY                      TAG      IMAGE ID      CREATED     SIZE
sabair0509/hiring-app           36       3c1545143dd9  2 years ago  493MB
public.ecr.aws/b8f1p5s2/mujahid/hiring-app   latest   3c1545143dd9  2 years ago  493MB
```

Go to ecr and click on express mode give your image URL that is in your ECR click on create.

Click on additional configurations.

- port 8080
- select vpc,subnets,security groups

click on create.

Additional configurations - optional

Cluster: - (If no cluster is specified or you do not have any cluster in your account, a cluster with the name "default" will be created for you.)

Name: (Auto generated from image URI)

Container

- Container port**: 8080
- Health check path**: /

Environment variables: Add environment variables using plain text values or secrets from AWS Secrets Manager or Parameter Store.

Add environment variable

Compute

CPU: 2 vCPU

Memory: 10 GB

Auto scaling

ECS service metric: Average memory utilization

Target value: 70

Minimum number of tasks: 1

Maximum number of tasks: 10

Networking

Customize networking configurations: Override default networking settings by selecting custom subnets and security groups for your service.

A cluster has been created.

Clusters (1) Info

| Cluster | Services | Tasks | Container instances | CloudWatch monitoring | Capacity provider |
|---------|----------|----------------------|---------------------|-----------------------|-------------------|
| default | 1 | 0 Open... 1 Run... | 0 EC2 | Default | No default found |

Services (1) Info

| Service name | ARN | Status | Tasks |
|-----------------|------------------|--------|--------|
| hiring-app-716a | arn:aws:ecs:eu-r | Active | 1 Task |

Click on services and see the resources column you will see loadbalancer,security groups has been created.

Deployment overview

| Deployment status | Deployment controller type | Deployment strategy | Canary percent |
|-------------------|----------------------------|---------------------|----------------|
| Success | ECS | Canary | 5% |

Service revisions (1) Info

A service revision includes the number of tasks involved in the service deployment. You can choose to view details for all service revisions created on or after October 24, 2024.

Review service revision changes

eu-north-1.console.aws.amazon.com/ecs/v2/clusters/default/express-services/hiring-app-716a/service-deployments/AT_Fwf1vA-tLYxmYmLZmb?region=eu-north-1

aws Search [Alt+S] Account ID: 2353-51 Europe (Stockholm) ▾

Amazon Elastic Container Service > Clusters > default > Express services > hiring-app-716a > Service deployments > AT_Fwf1vA-tLYxmYmLZmb

AT_Fwf1vA-tLYxmYmLZmb

Last updated December 15, 2025, 18:29 (UTC+5:30) [Edit](#) [Rollback](#)

Deployment overview

| Deployment status | Deployment controller type | Deployment strategy | Canary percent |
|-------------------------------------|-------------------------------------|-----------------------|-------------------------------------|
| Success | ECS | Canary | 5% |
| Canary bake time | Deployment bake time | Deployment duration | Created at |
| 3 minutes | 3 minutes | 6 minutes, 40 seconds | December 15, 2025, 18:22 (UTC+5:30) |
| Started at | Updated at | Stopped at | Finished at |
| December 15, 2025, 18:22 (UTC+5:30) | December 15, 2025, 18:28 (UTC+5:30) | - | December 15, 2025, 18:28 (UTC+5:30) |

Deployment ARN
arn:aws:ecseu-north-1:235351028455:service-deployment/default/hiring-app-716a/AT_Fwf1vA-tLYxmYmLZmb

Service revisions (1) [Info](#)
Review changes

A service revision includes the number of tasks involved in the service deployment. You can choose to view details for all service revisions created on or after October 24, 2024.

Review service revision changes

eu-north-1.console.aws.amazon.com/ecs/v2/clusters/default/express-services/hiring-app-716a/Resources?region=eu-north-1

aws Search [Alt+S] Account ID: 2353-5102-8455 ▾ mujahed

Amazon Elastic Container Service > Clusters > default > Express services > hiring-app-716a > Resources

hiring-app-716a [Express](#) [Info](#)

Last updated December 15, 2025, 18:39 (UTC+5:30) [Edit](#) [Delete service](#) [Update service](#)

Express service overview

| Service ARN | Application URL |
|---|---|
| arn:aws:ecs:eu-north-1:235351028455:service/default/hiring-app-716a | hi-Ofc3d13656e64757afc57ed82c6c8509.ecs.eu-north-1.on.aws |
| Service status | Active deployment |
| Active | - |
| Tasks | Updated at |
| 0 Pending 1 Running View tasks | December 15, 2025, 18:22 (UTC+5:30) |

[Observability](#) [Logs](#) [Resources](#) [Deployments](#) [Configuration](#) [Tags](#)

[Timeline view](#) [Table view](#)

Resources [Info](#)
Last updated December 15, 2025, 18:39 (UTC+5:30) [Edit](#)

Your AWS resources for this service. Updates automatically.

- Cluster: [default](#)
- Task definition: [default-hiring-app-716a:1](#)

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Amazon Elastic Container Service > Clusters > default > Express services > hiring-app-716a > Resources

Amazon Elastic Container Service

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Cluster: default [Cluster details](#)

Task definition: default-hiring-app-716a:1 [Task definition details](#)

Target service revision: 4961484293880973629 [Target service revision details](#)

Service security group: sg-0b43905e8c8e15a7f [Service security group details](#) Active
Last updated at December 15, 2025, 18:22 (UTC+5:30).

Log group: /aws/ecs/default/hiring-app-716a-3a29 [Log group details](#) Active
Last updated at December 15, 2025, 18:22 (UTC+5:30).

Metric alarm: default/hiring-app-716a/RollbackAlarm [Metric alarm details](#) Active
Last updated at December 15, 2025, 18:26 (UTC+5:30).

Public ingress path: hi-ofc3d13656e64757afc57ed82c6c8509.ecs.eu-north-1.on.aws [Public ingress path details](#) Active
Last updated at December 15, 2025, 18:25 (UTC+5:30).

Certificate: hi-ofc3d13656e64757afc57ed82c6c8509.ecs.eu-north-1.on.aws [Certificate details](#) Active
Last updated at December 15, 2025, 18:25 (UTC+5:30).

Load balancer security group: sg-03ebf4e5d67bc711f [Load balancer security group details](#) Active
Last updated at December 15, 2025, 18:25 (UTC+5:30).

Load balancer: [app/ecs-express-gateway-alb-006e8846/dd240d3057310ad3](#) [Load balancer details](#) Active
Last updated at December 15, 2025, 18:25 (UTC+5:30).

Listener: [app/ecs-express-gateway-alb-006e8846/dd240d3057310ad3/89626839d9ad8a34](#) [Listener details](#) Active
Last updated at December 15, 2025, 18:25 (UTC+5:30).

Target group: [ecs-gateway-tg-1ed080dd2bea931da/ce6f1d29ad354aa9](#) [Target group details](#) Active
Last updated at December 15, 2025, 18:25 (UTC+5:30).

Copy this application URL and paste in browser we will get our application.

Amazon Elastic Container Service > Clusters > default > Express services > hiring-app-716a > Resources

hiring-app-716a [Express](#) [Info](#)

Last updated December 15, 2025, 18:40 (UTC+5:30)

Express service overview

Service ARN: arn:aws:ecs:eu-north-1:235351028455:service/default/hiring-app-716a

Service status: Active

Tasks: 0 Pending | 1 Running | [View tasks](#)

Observability | Logs | **Resources** | Deployments | Configuration | Tags

Timeline view | Table view

Application URL: hi-ofc3d13656e64757afc57ed82c6c8509.ecs.eu-north-1.on.aws

Active deployment

Updated at: December 15, 2025, 18:22 (UTC+5:30)

← → ⌂ hi-0fc3d13656e64757afc57ed82c6c8509.ecs.eu-north-1.on.aws

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Apache Tomcat/8.0.20

The Apache Software Foundation <http://www.apache.org/>

If you're seeing this, you've successfully installed Tomcat. Congratulations!

 Recommended Reading:
[Security Considerations HOW-TO](#)
[Manager Application HOW-TO](#)
[Clustering/Session Replication HOW-TO](#)

Server Status
Manager App
Host Manager

Developer Quick Start

Tomcat Setup
First Web Application

Realms & AAA
JDBC DataSources

Examples

Servlet Specifications
Tomcat Versions

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in: `$CATALINA_HOME/conf/tomcat-users.xml`

In Tomcat 8.0 access to the manager application is split between different users. [Read more...](#)

Release Notes
Changelog

Documentation

[Tomcat 8.0 Documentation](#)
[Tomcat 8.0 Configuration](#)
[Tomcat Wiki](#)

Find additional important configuration information in: `$CATALINA_HOME/ RUNNING.txt`

Developers may be interested in: [Tomcat 8.0 Bug Database](#)

Getting Help

[FAQ and Mailing Lists](#)

The following mailing lists are available:

tomcat-announce
Important announcements, releases, security vulnerability notifications. (Low volume.)

tomcat-user
User support and discussion

taglibs-user
User support and discussion for [Apache Taglibs](#)

tomcat-dev
Development mailing list - including commit messages