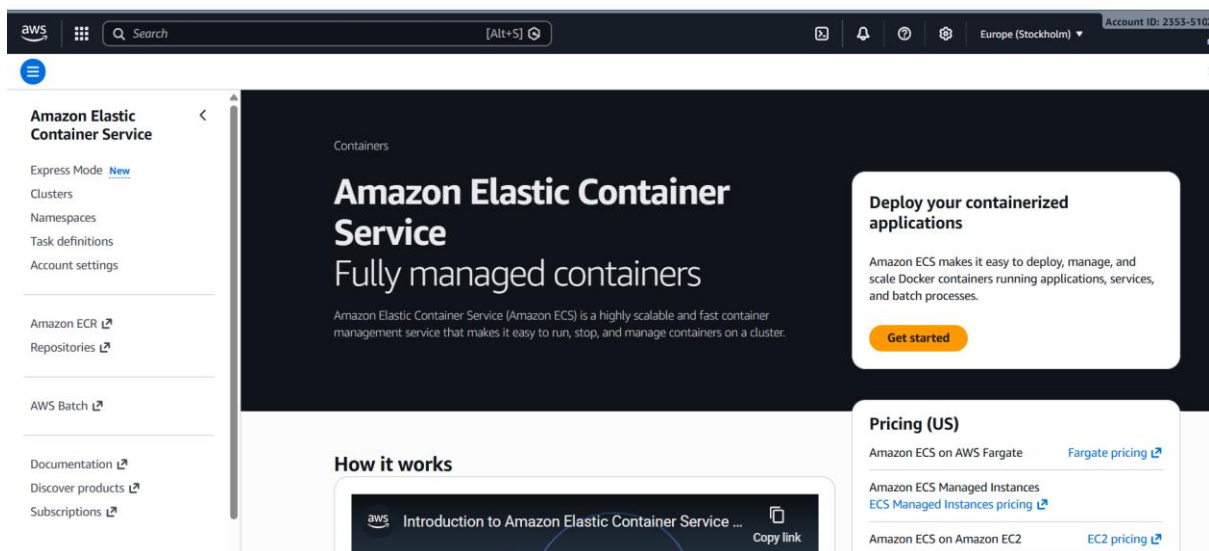


1. Setup a highly available ecs cluster with load balancer and dynamic port mapping.

NOTE:

1. Your cluster should maintain atleast 6 tasks at any point of time and should be highly availble 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**

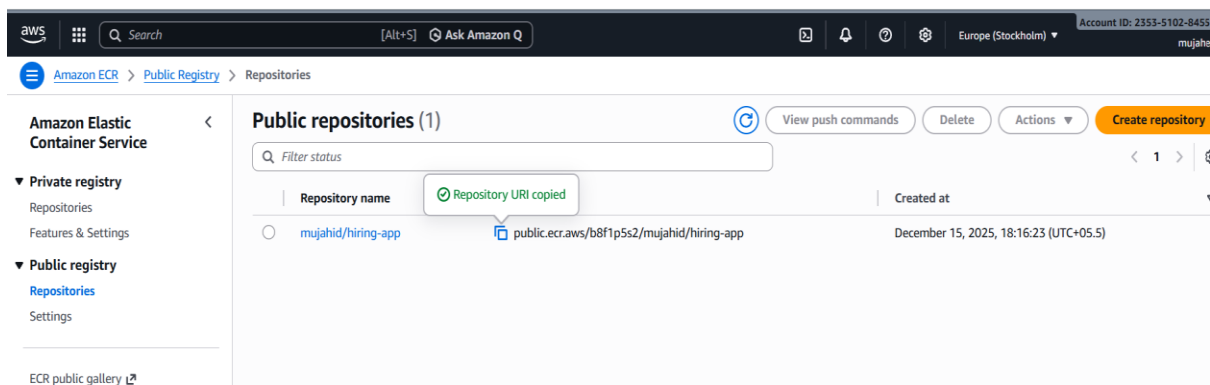
```
[root@ip-172-31-6-204 ~]# docker pull sabair0509/hiring-app:36
36: Pulling from sabair0509/hiring-app
a3ed95caeb02: Pull complete
c06482b548c8: Pull complete
954f07d4dc14: Pull complete
0bd71cf3b59f: Pull complete
12d3f8630eca: Pull complete
d6e16c3ae29a: Pull complete
ea9df2460d2a: Pull complete
66a4ea6d102d: Pull complete
2b6aeca0d35e: Pull complete
e82f1fd0d189: Pull complete
Digest: sha256:0fa8af7e47b72e474a94b90abc19db5dd3746c790aaf9dd8536923ec643da5db
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**



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 ~]# docker images
-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
3d7c7b65abb2: Pushed
c8252e277764: Pushed
4e1f1c224818: Pushed
0d059c7d8519: Pushed
0e413cd50c1e: Pushed
3770fb9237e7: 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.

Amazon Elastic Container Service > Express Mode

Express Mode [Info](#)

Deploy highly available, scalable, containerized applications with simplified configurations. Express Mode automatically sets up the necessary AWS services at

Let's set up your app

Image URI

public.ecr.aws/b8f1p5s2/mujahid/hiring-app [Browse ECR images](#)

Private registry - optional [Info](#)

☐ Private registry authentication

Task execution role [Info](#)

ecsTaskExecutionRole [Create new role](#)

Infrastructure role [Info](#)

ecsInfrastructureRoleForExpressServices [Create new role](#)

► **Additional configurations - optional**

Click on additional configurations.

- port 8080
- select vpc,subnets,security groups

click on create.

eu-north-1.console.aws.amazon.com/ecs/v2/express-mode?region=eu-north-1

Amazon Elastic Container Service > Express Mode

ecsinfrastructurekoleioronexpressservices

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)

Up to 255 letters (uppercase and lowercase), numbers, underscores, and hyphens are allowed. Service names must be unique within a cluster.

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](#)

Command

-

Task role

Choose an IAM role that grants permissions to the applications running in your containers. This task role allows your application to make API calls to A

ecsTaskExecutionRole

[Create new role](#)

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.

Amazon Elastic Container Service > Clusters

Introducing Express Mode
Amazon ECS Express Mode provides a simplified way to quickly launch highly available, scalable containerized applications. This streamlined experience automates infrastructure setup, including a default domain for each ECS service. [Learn more](#)

Try Express Mode

Clusters (1) Info
Last updated December 15, 2025, 18:58 (UTC+5:30) [Refresh](#) [Create cluster](#)

Search clusters

Cluster	Services	Tasks	Container instances	CloudWatch monitoring	Capacity provider
default	1	0 Pending 1 Running	0 EC2	Default	No default found

Amazon Elastic Container Service > Clusters > default > Services

Cluster overview

ARN: [arn:aws:ecs:eu-north-1:235351028:455:cluster/default](#) Status: Active CloudWatch monitoring: Default Registered container instances: -

Services

Draining	Active	Pending	Running
-	1	-	1

Services (1) Info
Last updated December 15, 2025, 18:58 (UTC+5:30) [Manage tags](#) [Update](#) [Delete service](#) [Create](#)

Filter services by value

Filter launch type: Any launch type Filter scheduling strategy: Any scheduling strategy Filter resource management type: Any resource management type

Service name	ARN	Status	Scheduling strategy	Launch type	Task definition	Deployments and tasks
hiring-app-716a Express	arn:aws:ecs:eu-r	Active	REPLICA	-	-	1/1 Task

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

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

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) [Refresh](#) [Rollback](#)

Deployment overview

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

Deployment ARN: [arn:aws:ecs:eu-north-1:235351028455:service-deployment/default/hiring-app-716a/AT_Fwf1vA-tLYxmYmLZmB](#)

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 changes](#)

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

Search

[Alt+S]

Europe (Stockholm)

Account ID: 2353-5102-8455

Amazon Elastic Container Service

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AT_Fwf1vA-tLYxmYmLZmB

Last updated December 15, 2025, 18:29 (UTC+5:30)

Role

Deployment overview

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

Deployment ARN
arn:aws:ecs:eu-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

Search

[Alt+S]

Europe (Stockholm)

Account ID: 2353-5102-8455

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

Last updated December 15, 2025, 18:39 (UTC+5:30)

[Delete service](#)

[Update service](#)

Express service overview

Service ARN arn:aws:ecs:eu-north-1:235351028455:service/default/hiring-app-716a	Application URL hi-0fc3d13656e64757afc57ed82c6c8509.ecs.eu-north-1.on.aws ↗
Service status Active	Active deployment -
Tasks 0 Pending 1 Running View tasks ↗	Updated at 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)

Your AWS resources for this service. Updates automatically.

[Cluster: default](#) [↗](#)

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

CloudShell

Feedback

Console Mobile App

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aws [Search] [Alt+S] Europe (Stockholm)

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

Amazon Elastic Container Service

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AWS Batch [↗](#)

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- Cluster: [default](#)
- Task definition: [default-hiring-app-716a:1](#)
- Target service revision: [4961484293880973629](#)
- Service security group: [sg-0b43905e8c8e15a7f](#) **Active**
Last updated at December 15, 2025, 18:22 (UTC+5:30).
- Log group: [/aws/ecs/default/hiring-app-716a-3a29](#) **Active**
Last updated at December 15, 2025, 18:22 (UTC+5:30).
- Metric alarm: [default/hiring-app-716a/RollbackAlarm](#) **Active**
Last updated at December 15, 2025, 18:26 (UTC+5:30).
- Public ingress path: [hi-0fc3d13656e64757afc57ed82c6c8509.ecs.eu-north-1.on.aws](#)
- Certificate: [hi-0fc3d13656e64757afc57ed82c6c8509.ecs.eu-north-1.on.aws](#) **Active**
Last updated at December 15, 2025, 18:25 (UTC+5:30).
- Load balancer security group: [sg-03ebf4e5d67bc711f](#) **Active**
Last updated at December 15, 2025, 18:25 (UTC+5:30).
- Load balancer: [app/ecs-express-gateway-alb-006e8846/dd240d3057310ad3](#) **Active**
Last updated at December 15, 2025, 18:25 (UTC+5:30).
- Listener: [app/ecs-express-gateway-alb-006e8846/dd240d3057310ad3/89626839d9ad8a34](#) **Active**
Last updated at December 15, 2025, 18:25 (UTC+5:30).
- Target group: [ecs-gateway-tg-1ed080dd2bea93d1a/ce6f1d29ad354aa9](#) **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.

aws [Search] [Alt+S] Europe (Stockholm) Account ID: 2353-5102-8453 mujaheed

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

Amazon Elastic Container Service

Express Mode [New](#)

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hiring-app-716a [Express](#) [Info](#) Last updated December 15, 2025, 18:40 (UTC+5:30) [Delete service](#) [Update service](#)

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](#)

Application URL [hi-0fc3d13656e64757afc57ed82c6c8509.ecs.eu-north-1.on.aws](#)

Active deployment -

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

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

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

hi-0fc3d13656e64757afc57ed82c6c8509.ecs.eu-north-1.on.aws

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Find Help

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-users](#)
User support and discussion

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

[tomcat-dev](#)
Development mailing list including commit messages