

ECS

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
 - Launch an instance
 - Install docker key
 - And docker pull sabair0509/hiring-app:36
 - Configure aws
 - Add acces key and secret
 - Now .
 - Login to aws console
 - Go to ecr
 - Create a public repo
 - Now
 - Login to
 - aws ecr-public get-login-password --region us-east-1 | docker login --username AWS --password-stdin public.ecr.aws/c6y4j8f0

```
[ec2-user@ip-172-31-14-76 ~]$ sudo su
[root@ip-172-31-14-76 ec2-user]# docker pull sabair0509/hiring-app:36
36: Pulling from sabair0509/hiring-app
a3ed95cae02: Pull complete
c06482b548cb: Pull complete
954f07d4dc14: Pull complete
0bd71cf3b59f: Pull complete
12d3f8630eca: Pull complete
d6e16c3ae29a: Pull complete
ea9df2460d2a: Pull complete
66a4ea6d102d: Pull complete
2b6aecad0d25e: 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-172-31-14-76 ec2-user]# aws ecr-public get-login-password --region us-east-1 | docker login --username AWS --password-stdin public.ecr.aws/c6y4j8f0
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-172-31-14-76 ec2-user]# docker push public.ecr.aws/c6y4j8f0/kamal:latest
The push refers to repository [public.ecr.aws/c6y4j8f0/kamal]
An image does not exist locally with the tag: public.ecr.aws/c6y4j8f0/kamal
[root@ip-172-31-14-76 ec2-user]# docker build -t kamal .
[+] Building 0.8s (7/7) FINISHED
=> [internal] load build definition from dockerfile
```

i-0dcdbf34b21e5ebca (docker)

- Go to terminal
- Build the image
- And push that image
- Copy the image url
- Go to ecs
- Explore mode
- Add image id over ther
- And select default vpc
- Subnet
- Security groups
- And select 2 cpu utilization
- Select memory of 8gb
- Now,
- Ru the cluster

Load balancer: [app/ecs-express-gateway-alb-9fdc6163/d6c8c8c17c26eeb6](#) Active
Last updated at December 20, 2025, 15:24 (UTC+5:30).

Listener: [app/ecs-express-gateway-alb-9fdc6163/d6c8c8c17c26eeb6/d2e58ae430485e93](#) Active
Last updated at December 20, 2025, 15:24 (UTC+5:30).

Target group: [ecs-gateway-tg-16075d536de2bcfaa/edc9940d75c82e61](#) Active
Last updated at December 20, 2025, 15:24 (UTC+5:30).

Target group: [ecs-gateway-tg-4ed4d48478c39e413/83bcb5c96fcbd50](#) Active
Last updated at December 20, 2025, 15:24 (UTC+5:30).

Listener rule: [app/ecs-express-gateway-alb-9fdc6163/d6c8c8c17c26eeb6/d2e58ae430485e93/37e0077dc462a8f4](#) Active
Last updated at December 20, 2025, 15:24 (UTC+5:30).

Scaling target: [service-default-kamal-b01a](#) Active
Last updated at December 20, 2025, 15:18 (UTC+5:30).

Scaling policy: [kamal-b01a](#) Active
Last updated at December 20, 2025, 15:18 (UTC+5:30).

Service: [kamal-b01a](#) Active
service kamal-b01a has reached a steady state.

Deployment [xbzRf1Uqk7UDrq0CtZ-CB](#) has completed.
Completed at December 20, 2025, 15:26 (UTC+5:30)

Clusters > default > Express services > kamal-b01a > Service deployments > xbzRf1Uqk7UDrq0CtZ-CB

Last updated December 20, 2025, 15:54 (UTC+5:30) C Roll back

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 8 minutes, 49 seconds	Created at December 20, 2025, 15:18 (UTC+5:30)
Started at December 20, 2025, 15:18 (UTC+5:30)	Updated at December 20, 2025, 15:26 (UTC+5:30)	Stopped at -	Finished at December 20, 2025, 15:26 (UTC+5:30)
Deployment ARN arn:aws:ecs:us-west-1:414691912691:service-deployment/default/kamal-b01a/xbzRf1Uqk7UDrq0CtZ-CB			

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