

## 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
a3ed95caeb02: Pull complete
c06482b548c8: Pull complete
954f07d4dc14: Pull complete
0bd71c43b59f: Pull complete
12d3f8630eca: Pull complete
46e16c3ae29a: 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-172-31-14-76 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,
- Run 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-16075d536de2bccaa/edc9940d75c82e61](#) Active  
Last updated at December 20, 2025, 15:24 (UTC+5:30).
- ✔ Target group: [ecs-gateway-tg-4ed4d48478c39e413/83bcbb5c96fcbd50](#) 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)

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

xbzRf1Uqk7UDrq0CtZ-CB

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

Roll back

Deployment overview

<b>Deployment status</b> ✔ Success	<b>Deployment controller type</b> ECS	<b>Deployment strategy</b> Canary	<b>Canary percent</b> 5%
<b>Canary bake time</b> 3 minutes	<b>Deployment bake time</b> 3 minutes	<b>Deployment duration</b> 8 minutes, 49 seconds	<b>Created at</b> December 20, 2025, 15:18 (UTC+5:30)
<b>Started at</b> December 20, 2025, 15:18 (UTC+5:30)	<b>Updated at</b> December 20, 2025, 15:26 (UTC+5:30)	<b>Stopped at</b> -	<b>Finished at</b> 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

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.