1. Create a new internet facing application load balancer

Graphical user interface, text, application

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1. Use the default subnet and select all availability zones

Graphical user interface, text, application

Description automatically generated

1. Create a new security group

Graphical user interface, text, application, email

Description automatically generated

1. The security group will have an inbound rule type of HTTP, port range of 80 and IP source from anywhere. Select this security group for the load balancer

Graphical user interface, application

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1. Next, create a new target group with the target type being IP Addresses

Graphical user interface, text, application, email

Description automatically generated

1. Name the target group and leave the remaining configurations as default. Create the target group as-is and use it as the listener for the load balancer. Create the load balancer as-is

Graphical user interface, text, application, email

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1. Create a new Networking Only ECS cluster

Graphical user interface, application, Word

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1. Name the cluster. No need to create a new VPC. Already using the default one. Create the cluster

Graphical user interface, text, application, email

Description automatically generated

1. Create a new task definition in ECS with the Fargate launch type

Graphical user interface, application, Word

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1. Name the task definition, set the task role to ecsTaskExecutionRole, and set the Operating system family to Linux

Graphical user interface, text, application, email

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1. Under Task Size, set the task memory to 1 GB and the task CPU to 0.5 vCPU

Graphical user interface, text, application, email

Description automatically generated

1. Add a new container with your desired container name and the latest Docker Image URI from ECR. Set the container port mapping to 80 and click Add. Then, create the task definition as-is

Graphical user interface, text, application

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Graphical user interface, application

Description automatically generated

1. Within that task definition, create a service of Launch Type Fargate, chosen service name, and 2 as the number of tasks

Graphical user interface, text, application

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Graphical user interface, text, application, chat or text message

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1. Choose Rolling Update as the deployment type, click Next Step

Graphical user interface, text

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1. In the next step, choose the default VPC and all availability zones

Graphical user interface, application

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1. Select Application Load Balancer as the load balancer type and add the container port to the load balancer

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1. Then select 80:HTTP as the Production Listener Port and the target group you have created before. Click Next Step. Create the service as-is

Graphical user interface, text, application, chat or text message

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1. You can test the success of the service entering the load balancer’s public DNS into your web browser

A collage of a cat

Description automatically generated with medium confidence

1. Edit the current pipeline

Graphical user interface, application, Teams

Description automatically generated

1. Add a new Deploy stage after the Build stage

Graphical user interface, application, Teams

Description automatically generated

1. Add an action group and choose an appropriate action name, Amazon ECS as the Action Provider, the correct region, BuildArtifact as Input Artifacts, the cluster name previously chosen, the service name previously chosen, and imagedefinitions.json as the Image Definition file. Click Done and then save the pipeline changes

Graphical user interface, text, application, email

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1. In order to see if the Deploy stage works, a new commit to the CodeCommit repository will have to be made. Edit the index.html file to have an excuse to make a new commit

Text

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1. Commit and then push these changes to the CodeCommit repository using the three git commands we have used before

Text

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1. A rolling update should in progress in ECS

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Graphical user interface, text, application, email

Description automatically generated

1. The automatic deployment of the application to ECS should now be complete. Reload the public DNS of the load balancer as proof

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A collage of a cat

Description automatically generated with medium confidence