

Steps taken for the challenge

1) Downloaded the master branch to local machine

Name	Date modified	Type	Size
app	5/24/2023 2:27 PM	File folder	
bin	5/24/2023 2:27 PM	File folder	
config	5/24/2023 2:27 PM	File folder	
db	5/24/2023 2:27 PM	File folder	
lib	5/24/2023 2:27 PM	File folder	
log	5/24/2023 2:27 PM	File folder	
public	5/24/2023 2:27 PM	File folder	
test	5/24/2023 2:27 PM	File folder	
tmp	5/24/2023 2:27 PM	File folder	
vendor	5/24/2023 2:27 PM	File folder	
config.ru	5/24/2023 2:27 PM	RU File	1 KB
Dockerfile	6/3/2023 7:44 PM	File	1 KB
Gemfile	5/24/2023 2:27 PM	File	2 KB
Gemfile.lock	5/24/2023 2:27 PM	LOCK File	4 KB
Rakefile	5/24/2023 2:27 PM	File	1 KB
README.rdoc	5/24/2023 2:27 PM	RDOC File	2 KB

2) Updated the hardcoded values in the config and database files to environment files

Name	Date modified	Type	Size
environments	5/24/2023 2:27 PM	File folder	
initializers	5/24/2023 2:27 PM	File folder	
locales	5/24/2023 2:27 PM	File folder	
application.rb	5/24/2023 2:27 PM	RB File	
boot.rb	5/24/2023 2:27 PM	RB File	
database.yml	6/1/2023 2:17 PM	YML File	
environment.rb	5/24/2023 2:27 PM	RB File	
routes.rb	5/24/2023 2:27 PM	RB File	
secrets.yml	6/1/2023 2:12 PM	YML File	

```
1 default: &default
2 adapter: postgresql
3 encoding: unicode
4 pool: 5
5 host: <%= ENV["DATABASE_HOST"] %>
6 username: <%= ENV["DATABASE_USER"] %>
7 password: <%= ENV["DATABASE_PASSWORD"] %>
8
9 development:
10 <<: *default
11 database: <%= ENV["DATABASE_NAME"] %>
12
13 staging:
14 <<: *default
15 database: <%= ENV["DATABASE_NAME"] %>
16
17 production:
18 <<: *default
19 database: <%= ENV["DATABASE_NAME"] %>
20
21 # Warning: The database defined as "test" will be erased and
22 # re-generated from your development database when you run "rake".
23 # Do not set this db to the same as development or production.
24 test:
25 <<: *default
26 adapter: postgresql
27 database: <%= ENV["DATABASE_NAME"] %>
28
```

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3) Created Dockerfile for app

```
FROM ruby:2.3.8

RUN echo "deb http://deb.debian.org/debian stable main" > /etc/apt/sources.list


RUN apt-get update -qq \
  && apt-get install -y nodejs postgresql-client --allow-unauthenticated

ADD . /Rails-Docker
WORKDIR /Rails-Docker
RUN bundle install


EXPOSE 3000

CMD ["bash", "-c", "rails server"]
```


4) Tagged and pushed to dockerhub


 Add a short description for this repository

The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search r

 **rsaikosaraju / mejurichallenge**





Description

This repository does not have a description 

 Last pushed: 18 hours ago

Tags

This repository contains 2 tag(s).

Tag	OS	Type	Pulled	Pushed
 002		Image	an hour ago	18 hours ago
 001		Image	4 days ago	4 days ago




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Steps taken for the challenge

5) Created yaml files and tested in local kubernetes that app is working

1) Postgres

Name	Date modified	Type
 Postgres.yaml	6/3/2023 11:15 PM	YAML File
 postgresClaim.yaml	6/1/2023 2:27 PM	YAML File
 postgresVolume.yaml	6/1/2023 2:27 PM	YAML File

2) Pgadmin

Name	Date modified	Type	Size
 Pgadmin.yaml	6/3/2023 10:36 PM	YAML File	1 KB
 pgadmincofnig.yaml	6/3/2023 10:20 PM	YAML File	1 KB
 pgadminsecret.yaml	6/3/2023 10:00 PM	YAML File	1 KB
 pgadminservice.yaml	6/3/2023 10:21 PM	YAML File	1 KB

3) mejuriapp

Name	Date modified	Type
 ConfigMap.yaml	6/3/2023 8:06 PM	Y
 Deployment.yaml	6/3/2023 7:53 PM	Y

6) Run db migration within the pod [kubectl exec -it podname -- sh]

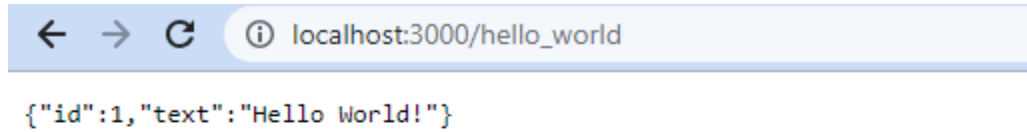
```
# bin/rake db:migrate RAILS_ENV=development
The PGconn, PGresult, and PGError constants are deprecated, and will be
removed as of version 1.0.

You should use PG::Connection, PG::Result, and PG::Error instead, respectively.

Called from /usr/local/bundle/gems/activerecord-4.2.10/lib/active_record/connection_adapters/abstract_adapter.rb:240:in `load_dependency'
== 20190916225816 AddMessagesTable: migrating =====
-- create_table(:messages)
   -> 0.0365s
== 20190916225816 AddMessagesTable: migrated (0.0368s) =====
```

Steps taken for the challenge

7) Port forward locally and validate application is reachable.



8) Now to deploy on the ECS, first created RDS database for postgres

RDS > Databases > helloworld

helloworld

Summary

DB identifier helloworld	CPU <div><div></div></div> 5.36%	Status Available	Class db.t3.micro
Role Instance	Current activity <div><div></div></div> 1.00 sessions	Engine PostgreSQL	Region & AZ us-east-2b

[Connectivity & security](#) | [Monitoring](#) | [Logs & events](#) | [Configuration](#) | [Maintenance & backups](#) | [Tags](#)

Connectivity & security

Endpoint & port Endpoint helloworld.czyhpzlj93m.us-east-2.rds.amazonaws.com Port 5432	Networking Availability Zone us-east-2b VPC vpc-0bdd3e805f35ea0ed Subnet group default-vpc-0bdd3e805f35ea0ed Subnets subnet-05f98162761773429	Security VPC security groups rds-ec2-1 (sg-07e964b6ae264538f) Active default (sg-0faaaf1eeae0255f5) Active Publicly accessible No Certificate authority Info rds-ca-2019
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Steps taken for the challenge

9) Created ECS Service and can see container created successfully.

The screenshot shows the Amazon Elastic Container Service (ECS) console. The breadcrumb navigation is: Amazon Elastic Container Service > Clusters > DevCluster > Services > mejurich > Tasks. The 'mejurich' service page has tabs for Health and metrics, Tasks, Logs, Deployments, Events, Configuration, Networking, and Tags. The 'Tasks' tab is active, showing a table of tasks. There is one task with ID 57d30234f7f84b13abeb9aa80d65c3e1, which is in the 'Running' state with a 'Healthy' status. Below the tasks table, there is a section for 'Containers for task 57d30234f7f84b13abeb9aa80d65c3e1' showing one container named 'mejurichallenge' in the 'Running' state with a 'Healthy' status.

Task	Last status	Desired st...	Task defi...	Revision	Health sta...	Started at	Container instan...	Launch type	CPU
57d302...	Running	Running	mejuri	3	Healthy	26 minutes ago	7c7f3e9a71e04761...	EC2	.125 vCPU

Container name	Container runtim...	Image URI	Image Digest	Status	Health status	CPU	Memory hard/sof...
mejurichallenge	11bba5e73d395f...	rsaikosaraju/mej...	sha256:8a1b0a5...	Running	Healthy	0	- / -

10) Set all environment variables in definition

Container details for mejurichallenge

DATABASE_PASSWORD	value	postgres
DATABASE_PORT	value	5432
DATABASE_USER	value	postgres
PORT	value	3000
RACK_ENV	value	development
RAILS_ENV	value	development

11) Downloaded cloudformation template for stack

The screenshot shows the AWS CloudFormation console for the stack 'ECS-Console-V2-Service-mejurich-DevCluster-64b8606d'. The 'Template' tab is active, displaying the CloudFormation template code. The template includes parameters for ECS cluster name, security group, subnet, VPC, and load balancer name. It also defines resources for an ECS service and a task definition.

```
{
  "AWSTemplateFormatVersion": "2010-09-09",
  "Description": "The template used to create an ECS Service from the ECS Console.",
  "Parameters": {
    "ECSClusterName": {
      "Type": "String",
      "Default": "DevCluster"
    },
    "SecurityGroupId": {
      "Type": "CommaDelimitedList",
      "Default": "sg-0faaf1eeae0255f5"
    },
    "SubnetId": {
      "Type": "CommaDelimitedList",
      "Default": "subnet-07405536c6c646ad,subnet-0f63f3f41312c3269,subnet-05f98162761773429"
    },
    "VpcId": {
      "Type": "String",
      "Default": "vpc-0b0d3e08f33eae8d"
    },
    "LoadBalancerName": {
      "Type": "String",
      "Default": ""
    }
  },
  "Resources": {
    "ECSService": {
      "Type": "AWS::ECS::Service",
      "Properties": {
        "Cluster": "DevCluster",
        "TaskDefinition": "arn:aws:ecs:us-east-2:143943148954:task-definition/mejurich",
        "SchedulingStrategy": "REPLICA",
        "DesiredCount": 1,
        "NetworkConfiguration": {
          "AssignPublicIp": {
            "SecurityGroups": [

```