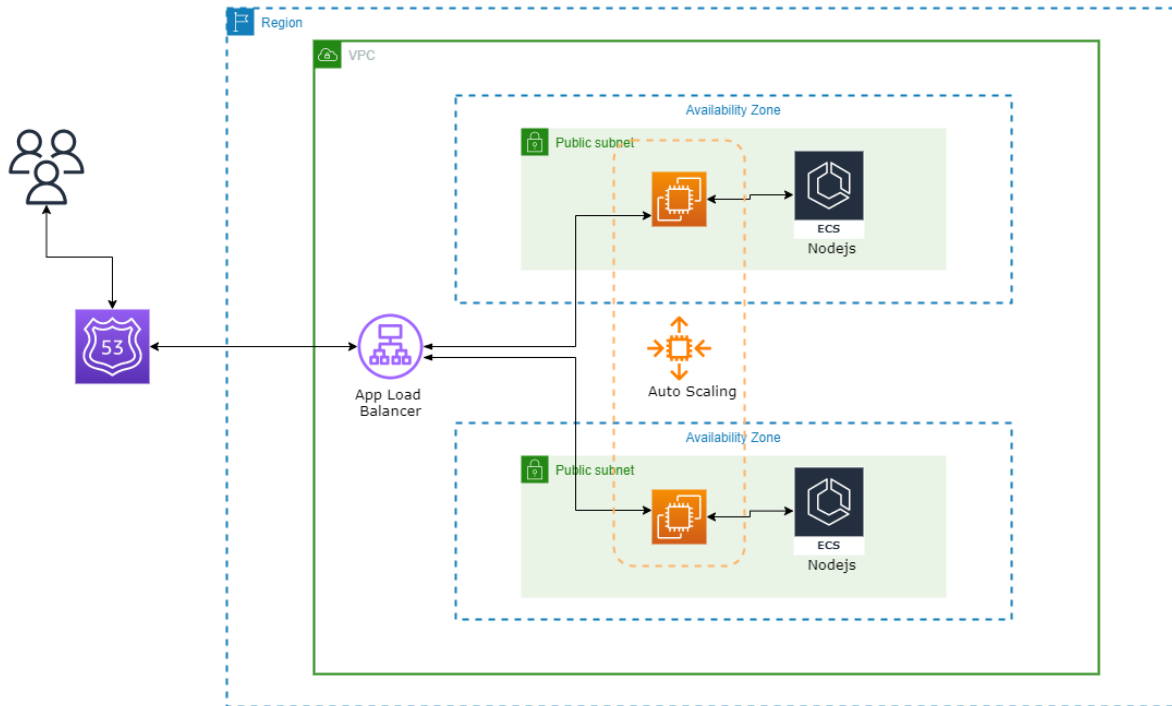


This is DevOps Challenge Senior Solution by Darmi Herrera Gutierrez.

- Architecture diagram demonstrating planned solution in AWS



- timeoff-management fork on local repository

<https://github.com/darmy14/timeoff-management-application.git>

- Required infrastructure running on cloud provider of preference, provisioned using some sort of infrastructure as code solution.

(In this section I used jenkins and aws cloudformation.)

```
"AWSTemplateFormatVersion": "2010-09-09",  
"Description": "CloudFormation template for DevOps Challenge Senior - Timeoff-management",
```

- Application must be deployed using a fully automated continuous integration solution, triggered by a change in source control.

(In this section I used a Jenkins pipeline, triggered by a change in source control after 20 min since the change, this is a custom variable)

Dashboard > gorilla-pipeline >

General Build Triggers Advanced Project Options Pipeline

☐ Build after other projects are built
☐ Build periodically
☐ GitHub hook trigger for GITScm polling
☒ Poll SCM

Schedule

H/20 * * * *

Would last have run at Wednesday, November 17, 2021 at 12:32:27 PM Central Standard Time; would next run at Wednesday, November 17, 2021 at 12:52:27 PM Central Standard Time.

Jenkins

Dashboard > gorilla-pipeline >

Back to Dashboard

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

GitHub

Rename

Pipeline Syntax

Build History [trend](#)

Pipeline gorilla-pipeline

Recent Changes

Stage View

Average stage times:
(Average full run time: ~5min 44s)

	Logging into AWS ECR	Cloning Git	Building image	Pushing to ECR
#1	3s	4s	1s	5min 31s
Nov 13 14:45	3s	4s	1s	5min 31s

No Changes

Permalinks

- The application should be highly available, and load balanced.
This section was provided by the architecture diagram and the `awsCloudFormationTimeoff-management.json`

Notes.

- The Dockerfile in the time-off repository had to be modified because some libraries were missing

Before:

```
RUN apk add --no-cache \
    git \
    make \
    nodejs npm \
    python \
    vim
```

Now:

```
RUN apk add --no-cache \  
    git \  
    g++ \  
    make \  
    gcc \  
    musl-dev \  
    nodejs npm \  
    python2 \  
    vim
```

2. I really appreciate this opportunity, I hope that you understand that I don't have too much time cause my current job, so the Script for creating a new revision of a task definition and update an aws service is missing, I hope finish it and send it soon.
3. The files are attached to the email.
awsCloudFormationTimeoff-management.json
TimeOff.Management-aws.drawio.png
jenkinsfile-timeoffmanagement