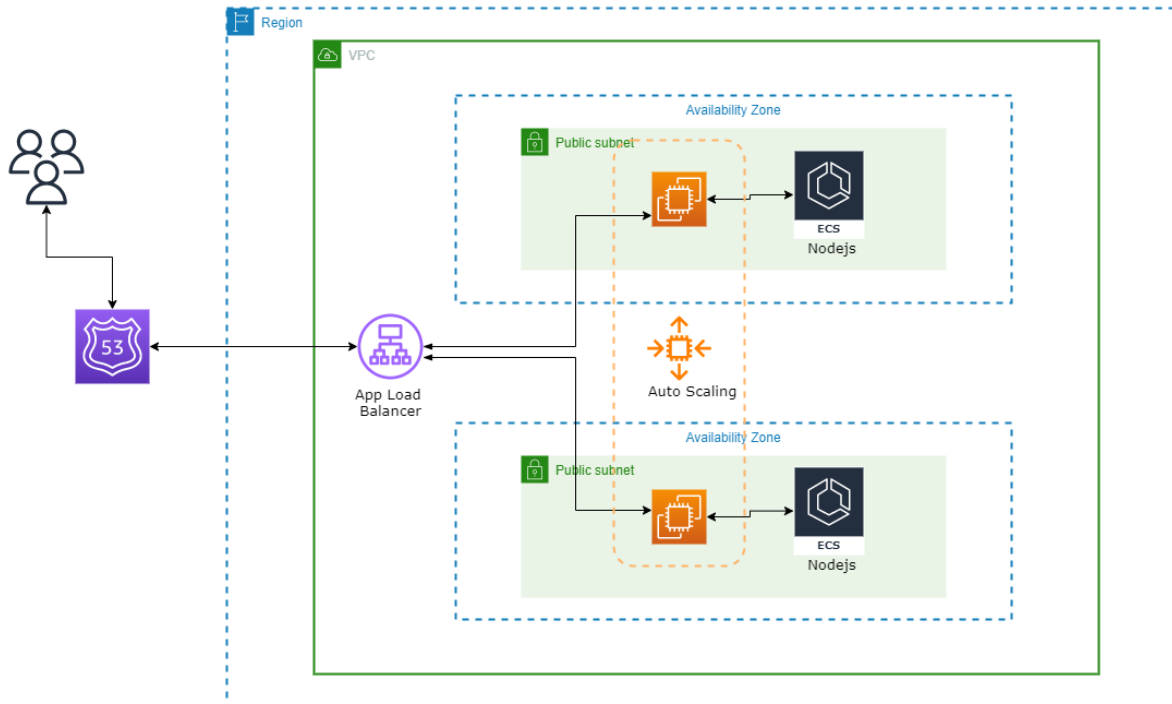


This is DevOps Challenge Senior Solution by Darmi Herrera Gutierrez.

- 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 aws cloudformation, please check "awsCloudFormationTimeoff-management.json" file.

```
{  
  "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, please check "jenkinsfile-timeoffmanagement.groovy" file.

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 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