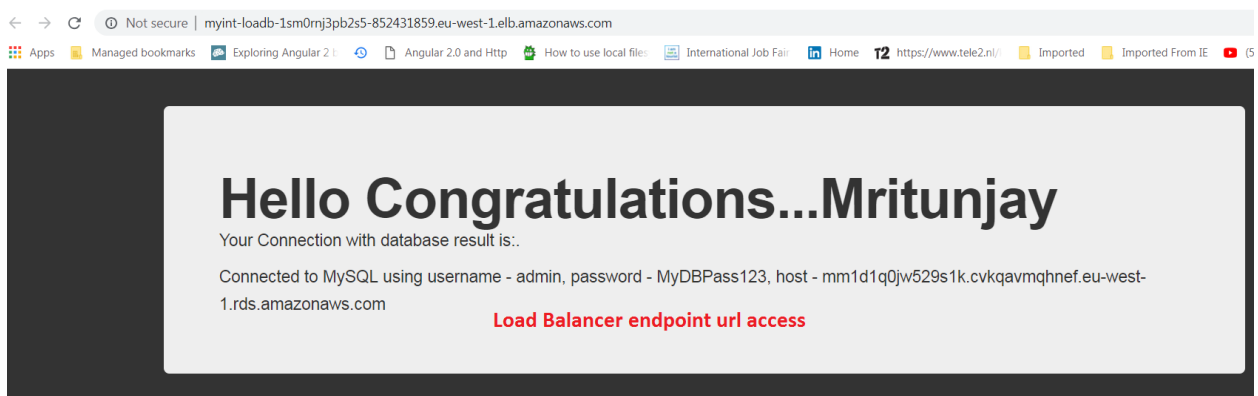
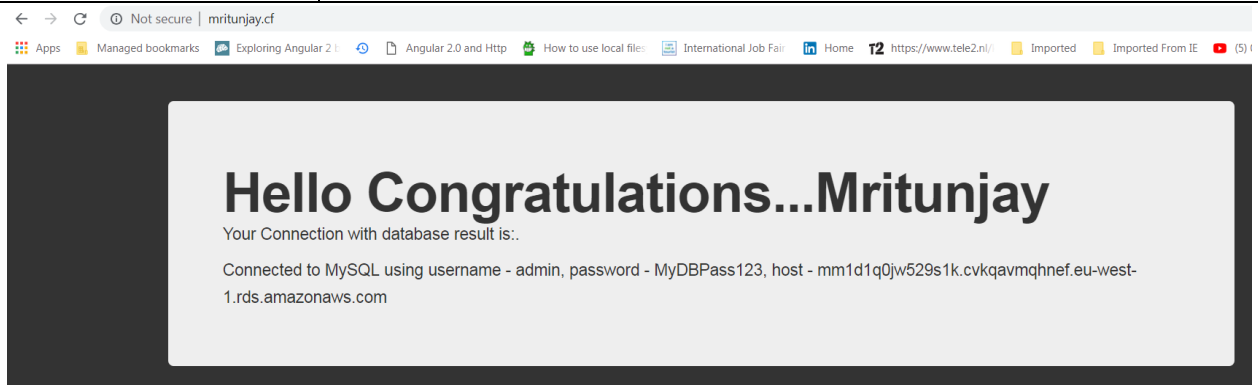


Assignment Overview.

Create a CloudFormation template that deploys a stack to host a secure and resilient intranet website that fetches data from a database. Provide the template that inflates this stack. The template should also output a link that we can click to see that all is working.

Assignment Result

Endpoint	URL
Route 53 Endpoint	http://mritunjay.cf/
Load Balancer Endpoint	http://myint-loadb-1sm0rnj3pb2s5-852431859.eu-west-1.elb.amazonaws.com/



Application code is divided into 2 parts.

1. Application source code.
2. Cloud formation template for Amazon web services (AWS)

1. Application Source Code:

Source code of application are located on my GitHub repository.

Url: <https://github.com/mritunjayemail/code-base-github-interview>

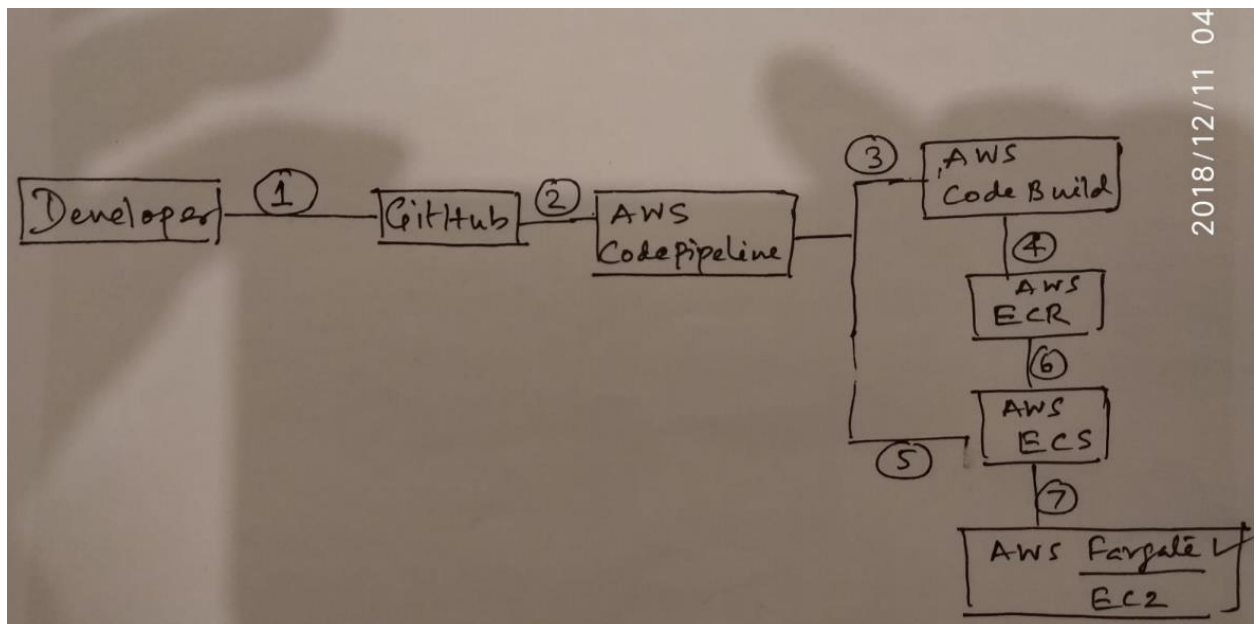
Git Repository URL for clone : <https://github.com/mritunjayemail/code-base-github-interview.git>

2. Cloud formation template for Amazon web services (AWS)

Url: <https://github.com/mritunjayemail/CloudFormation-templates-continuous-deployment>

Git Repo: <https://github.com/mritunjayemail/CloudFormation-templates-continuous-deployment.git>

Overview:



- Developer continuously integrate their changes into main branch hosted within main source code repository system such as GitHub.
- AWS code pipeline continuously polls the source code repository and trigger an execution of the pipeline when the new revision is found.
- AWS code pipeline executes a build of the new revision in AWS code build which create a docker container image from the source code.
- AWS code build pushes a newly build Docker container image tagged with the revision id to an ECR repository.
- AWS code pipeline an initiate an update of the Amazon ECS stack definition and service with the new image location.
- AWS ECS fetches the new container from Amazon ECR and replicate the old task with a new one on the cluster.

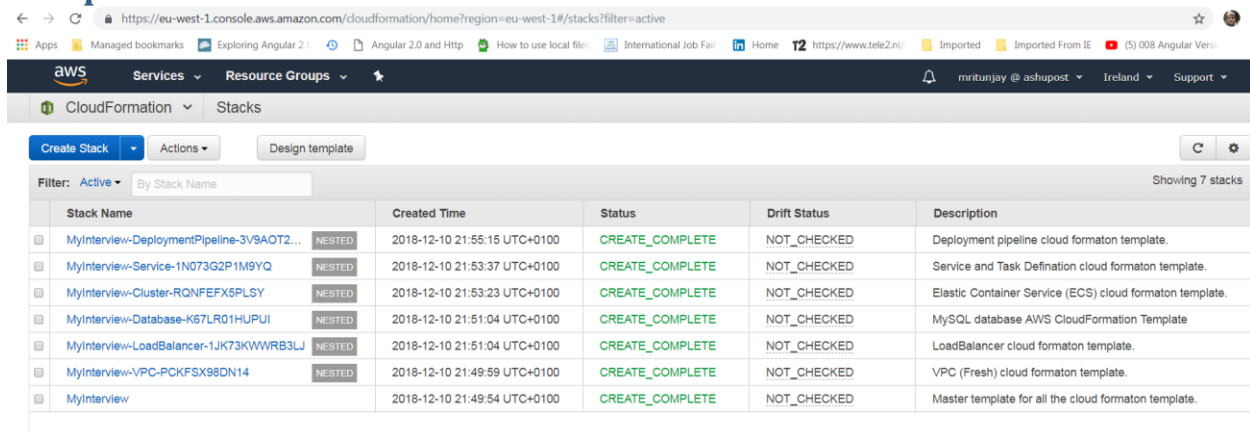
- The new revision of the service now running on the cluster using the specific launch type Fargate

Load balancer Cloud formation stack gives us output of load balancer Service URL.

▼ Outputs

Key	Value	Description
TargetGroup	arn:aws:elasticloadbalancing:eu-west-1:418185438171:targetgroup/MyInt-Targe-1OHWYDHBi6YIO/daa9a78f88bdeb61	
ServiceUrl	http://MyInt-LoadB-1SM0RNJ3PB2S5-852431859.eu-west-1.elb.amazonaws.com	URL of the load balancer for the sample service.
SecurityGroup	sg-0d812465eae82f73	

Complete stack overview on AWS console:



Stack Name	Created Time	Status	Drift Status	Description
MyInterview-DeploymentPipeline-3V9AOT2...	2018-12-10 21:55:15 UTC+0100	CREATE_COMPLETE	NOT_CHECKED	Deployment pipeline cloud formaton template.
MyInterview-Service-1N073G2P1M9YQ	2018-12-10 21:53:37 UTC+0100	CREATE_COMPLETE	NOT_CHECKED	Service and Task Defination cloud formation template.
MyInterview-Cluster-RQNFEFX5PLSY	2018-12-10 21:53:23 UTC+0100	CREATE_COMPLETE	NOT_CHECKED	Elastic Container Service (ECS) cloud formaton template.
MyInterview-Database-K67LR01HUPUI	2018-12-10 21:51:04 UTC+0100	CREATE_COMPLETE	NOT_CHECKED	MySQL database AWS CloudFormation Template
MyInterview-LoadBalancer-1JK73KWWRB3LJ	2018-12-10 21:51:04 UTC+0100	CREATE_COMPLETE	NOT_CHECKED	LoadBalancer cloud formaton template.
MyInterview-VPC-PCKFSX98DN14	2018-12-10 21:49:59 UTC+0100	CREATE_COMPLETE	NOT_CHECKED	VPC (Fresh) cloud formaton template.
MyInterview	2018-12-10 21:49:54 UTC+0100	CREATE_COMPLETE	NOT_CHECKED	Master template for all the cloud formaton template.

AWS CodePipeline is a fully managed continuous delivery service. CodePipeline automates the build, test, and deploy phases of your release process every time there is a code change.

GitHub Configuration

Repo: The repo name of the sample service.

Branch: The branch of the repo to deploy continuously.

User: Your username on GitHub.

Personal Access Token: Token for the access of github.

← → ↻ <https://eu-west-1.console.aws.amazon.com/codesuite/codepipeline/pipelines/MyInterview-DeploymentPipeline-3V9AOT2DKST9-Pipeline-1RBV51U3H0OSO/view?region=eu-west-1> ☆

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Source • CodeCommit

Build • CodeBuild

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Getting started

Pipelines

Pipeline

History

Feedback

Return to the old experience

Introducing the new AWS CodePipeline console experience!
We have updated the AWS CodePipeline console experience to make it easier to use. [Return to the old experience](#) or [permanently dismiss this message](#).

Developer Tools > CodePipeline > Pipelines > MyInterview-DeploymentPipeline-3V9AOT2DKST9-Pipeline-1RBV51U3H0OSO

MyInterview-DeploymentPipeline-3V9AOT2DKST9-Pipeline-1RBV51U3H0OSO

Edit View history Release change

Source View current revisions

GitHub

GitHub

Succeeded - 5 hours ago

a61ba7b1

GitHub: Corrected Database endpoint for AWS RDS connection a61ba7b1

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Developer Tools CodePipeline

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Return to the old experience

Disable transition

Build View current revisions

Build

AWS CodeBuild

Succeeded - 5 hours ago

Details

GitHub: Corrected Database endpoint for AWS RDS connection a61ba7b1

Disable transition

Deploy View current revisions

Deploy

Amazon ECS

Succeeded - 5 hours ago

Details

GitHub: Corrected Database endpoint for AWS RDS connection a61ba7b1