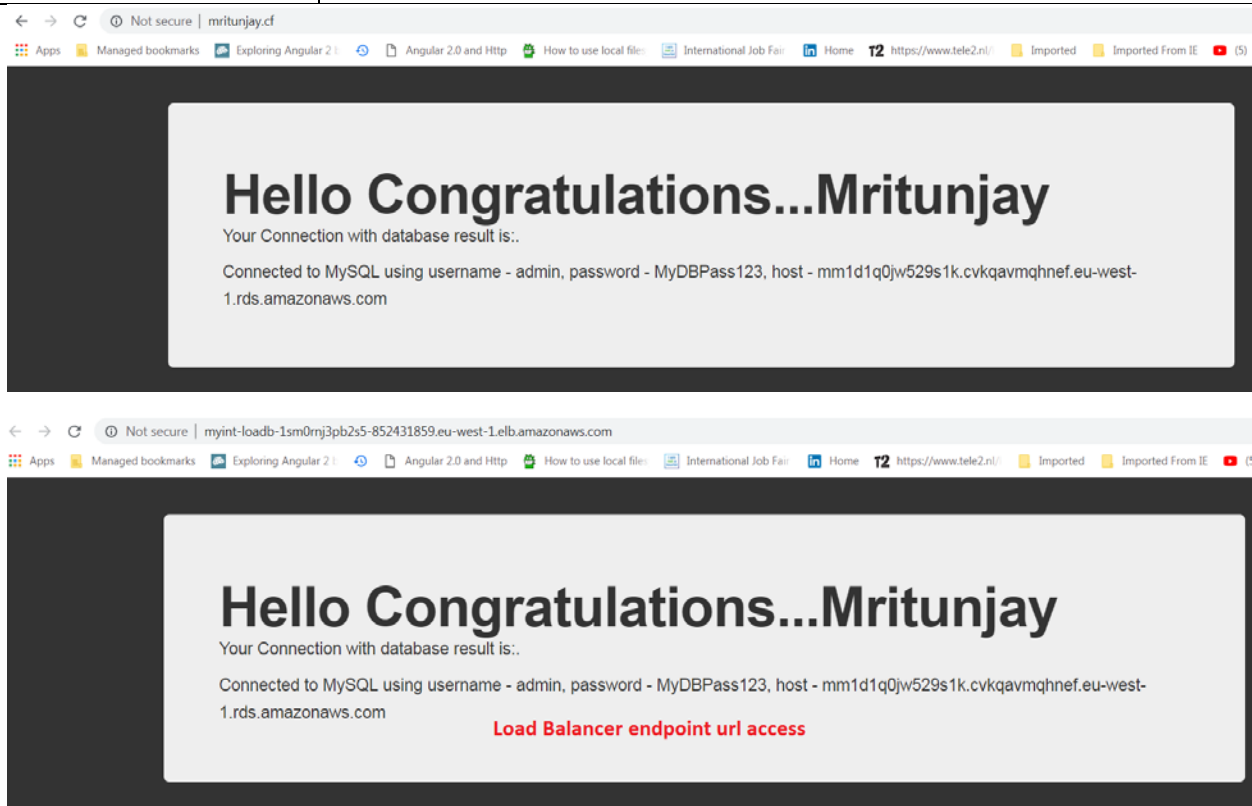


Assignment Overview.

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://testi-loadb-1uusjvkismjx3-906311711.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>

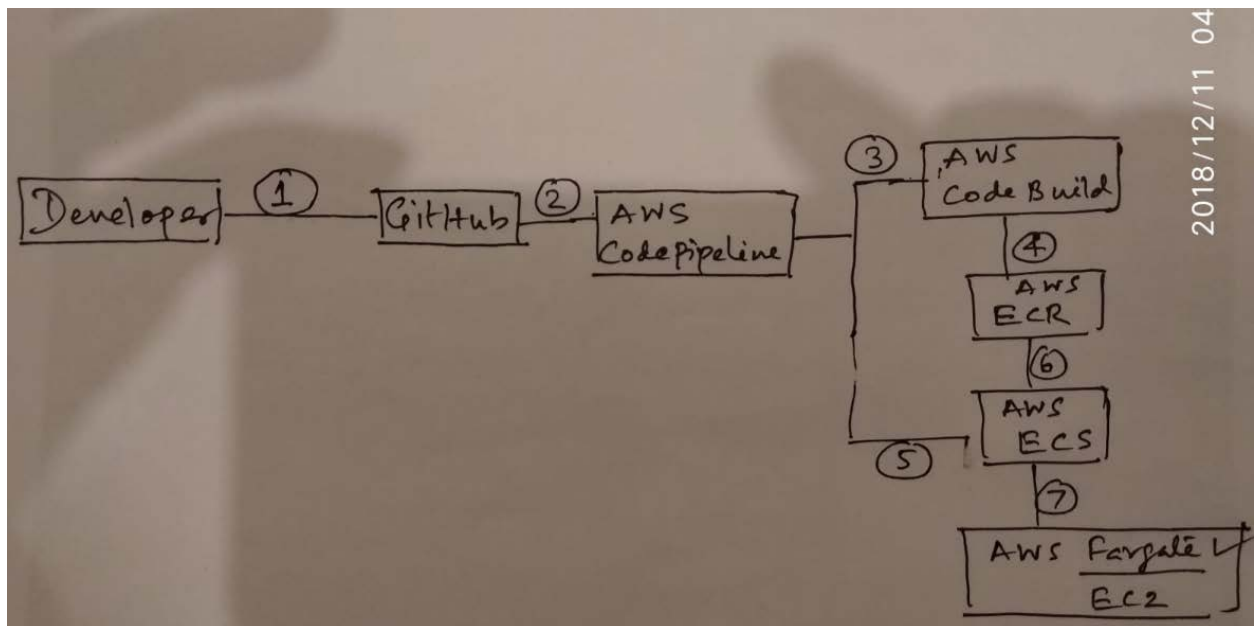
Git RepositoryURL for clone :<https://github.com/mritunjayemail/code-base-github-interview.git>

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:



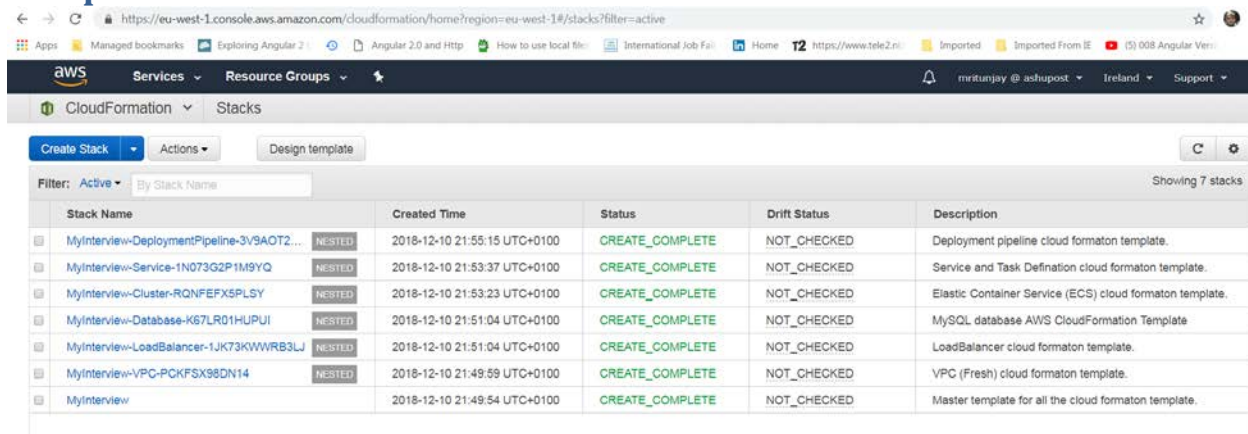
- Developer continuously integrate their changes into main branch hosted within main source code repository system such as GitHub.
- AWS code pipeline continuously polls the source code repository and trigger an execution of the pipeline when the new revision is found.
- AWS code pipeline executes a 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-1OHWYDHB16YIO/daa9a78f88bdeb61	
ServiceUrl	http://MyInt-LoadB-1SMORNJ3PB2S5-852431859.eu-west-1.elb.amazonaws.com	URL of the load balancer for the sample service.
SecurityGroup	sg-0d812465eae82f73	

Complete stack overview on AWS console:



The screenshot shows the AWS CloudFormation console interface. At the top, there's a navigation bar with 'Services' and 'Resource Groups'. Below it, the 'CloudFormation' section is active, showing a list of stacks. The table has columns for Stack Name, Created Time, Status, Drift Status, and Description. The stacks listed are: MyInterview-DeploymentPipeline-3v9AOT2..., MyInterview-Service-1N073G2P1M9YQ, MyInterview-Cluster-RQNFEFX5PLSY, MyInterview-Database-K67LR01HUPUI, MyInterview-LoadBalancer-1JK73KWWRB3LJ, MyInterview-VPC-PCKFSX98DN14, and MyInterview. All stacks have a status of 'CREATE_COMPLETE' and a drift status of 'NOT_CHECKED'.

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 Definition cloud formaton 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> ☆

Apps Managed bookmarks Exploring Angular 2 Angular 2.0 and Http How to use local file International Job Fair Home T2 <https://www.tele2.nl/> Imported Imported From IE (5) 008 Angular Ver...

aws Services Resource Groups mritunjay @ ashupost Ireland Support

Developer Tools **CodePipeline**

- Source • CodeCommit
- Build • CodeBuild
- Deploy • CodeDeploy
- Pipeline • CodePipeline
 - 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](#)

aws Services Resource Groups mritunjay @ ashupost Ireland Support

Developer Tools **CodePipeline**

- Source • CodeCommit
- Build • CodeBuild
- Deploy • CodeDeploy
- Pipeline • CodePipeline
 - Getting started
 - Pipelines
 - Pipeline**
 - History

Feedback 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](#)