**Project2 : Udagram CloudFormation**

**Description**

A high availability web application (Udagram) is deployed using CloudFormation. HTML code is picked from S3 storage and then deployed to Auto Scaling Web Servers.

There are two parts to this project:

1. A diagram that provides visual aid to understand the CloudFormation script.
2. CloudFormation scripts to create infrastructure and application servers.

**Supporting Documentation**

1. Diagram

* Udagram\_CloudFormation\_Architecture\_Diagram.PNG

1. The following files support this project.

* create.sh
* update.sh
* udagraminfra.yml
* udagraminfra-params.json
* udagramapp.yml
* udagramapp-params.json

**Code Execution**

Pre-requisites:

* AWS account setup – the steps are listed [here](https://aws.amazon.com/premiumsupport/knowledge-center/create-and-activate-aws-account/).
* AWS CLI setup – the setup instructions can be found [here](https://docs.aws.amazon.com/polly/latest/dg/setup-aws-cli.html).
* Unzip the project files on your local machine

Infrastructure setup:

* Navigate to the project folder on the command prompt of your Terminal screen
* ./create.sh stack\_name udagraminfra.yml udagraminfra-params.json

Web Application Servers setup:

* Navigate to the project folder on the command prompt of your Terminal screen
* ./create.sh stack\_name udagramapp.yml udagramapp-params.json

Troubleshooting:

* Navigate to the project folder on the command prompt of your Terminal screen
* ./update.sh stack\_name udagramapp.yml udagramapp-params.json

OR

* ./update.sh stack\_name udagraminfra.yml udagraminfra-params.json

**Result**

WebAppDNS: <http://udagr-webap-1rydgtviwj166-1233705069.us-west-2.elb.amazonaws.com/>