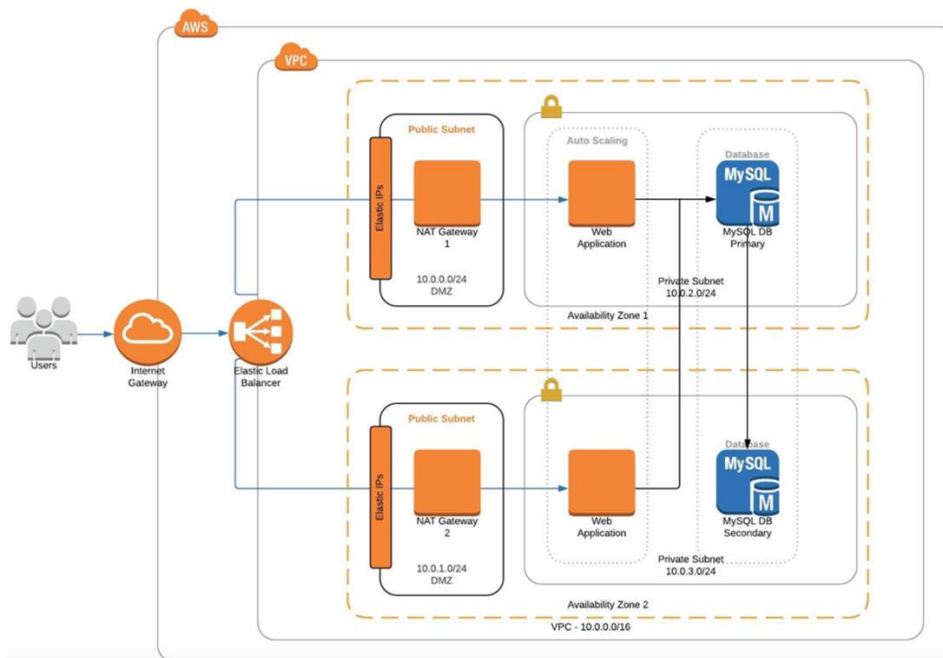## Assignment 2

In this assignment, you'll deploy web servers for a highly available web app using CloudFormation. You will write the code that creates and deploys the infrastructure and application for an Instagram-like app from the ground up.

You will begin with deploying the networking components, followed by servers, security roles and software. The procedure you follow here will become part of your portfolio of cloud projects. Creating this project will give you the hands-on experience you need to confidently talk about infrastructure as code.

We have chosen a realistic scenario where you will deploy a dummy application (a sample JavaScript or HTML file) to the Apache Web Server running on an EC2 instance.

There will be two parts to this assignment:

Task 1: YAML Scripts (Template and Parameters): The second part is to interpret the instructions and create a matching CloudFormation script.

Task 2: Develop effective technical documentation for assignment 2 - Create a REAME.md markdown describing the details of your infrastructure deployment for hosting your webapp. Including the link of your website. **Note**: The technical discussion and documentation, rather than just the basic system buildout or software development, is

where the most value occurs whether handing in homework assignments or completing a commercial project.

Task 3: Diagram: You'll first develop a diagram that you can present as part of your Task 2 (**technical documentation**) and as a visual aid to understand the CloudFormation script.

- **Create an account on www.lucidchart.com** - A free user-account on www.lucidchart.com is required to be able to draw the web app architecture diagrams for AWS similar to the above Figure.

Deliverables:

- Submit the URL of your assignment repository REAME.md

Rubric: 150 Points Total
Task 1 - 100 Points

- network.YAML
- server and security.YAML
- Storage and Database.YAML

Task 2 - 50 Points
Task 3 - 30 Points Extra