

## Overview

This challenge will require you to prepare a migration plan from AWS (Amazon Web Services) to GCP (Google Cloud Platform) for a basic version of our infrastructure.

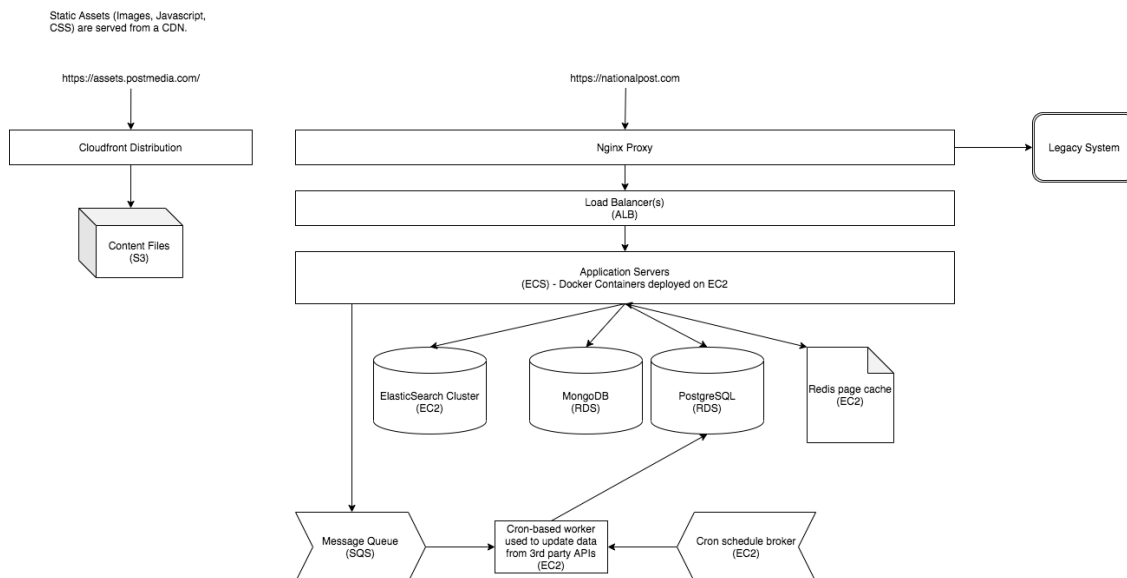
## Site Details

In the Postmedia network, each site uses the platform architecture shown in the diagram below. A typical web request follows this pathway:

- DNS resolution using Route53 to an NGINX proxy
- NGINX proxy follows rules that either route to our legacy stack (not covered in this challenge) or to a load balancer inside the platform
- The load balancer has target groups defined to route the traffic to the correct EC2 target (port mapping to ECS container – instance and port)
- The response from the application is returned for the user.

The application itself has caching set up in Redis and primary data lives in MongoDB, Postgres and Elasticsearch.

SQS Queues and scheduled crontasks are also used to process various 3<sup>rd</sup> party data feeds into the database.



## Challenge:

Devise a plan to migrate the infrastructure from AWS to GCP. You decide on how many phases but try to keep the transition without any downtime. Let us know what assumptions you made and if there are any risks in the solution proposed.