

DIGITAL TRANSFORMATION CASE STUDY

Mobile Health App on AWS

Project Overview

Objective: Evidence-based Digital Health Platform targeting patients (now for smoking cessation):

- ✓ Patients are alerted for data-entry
- ✓ Multimedia messages from community.
- ✓ Patient access to library for relevant literature and multimedia
- ✓ Patient records experiences on a private journal
- ✓ Patient data used for Research

Our Solution

- ✓ Leveraged Cloud based solution for storing the multi media files – S3
- ✓ Use content distribution network for downloading the multimedia to the mobile users – CDN
- ✓ Transcoding the multimedia files into streaming multimedia solution

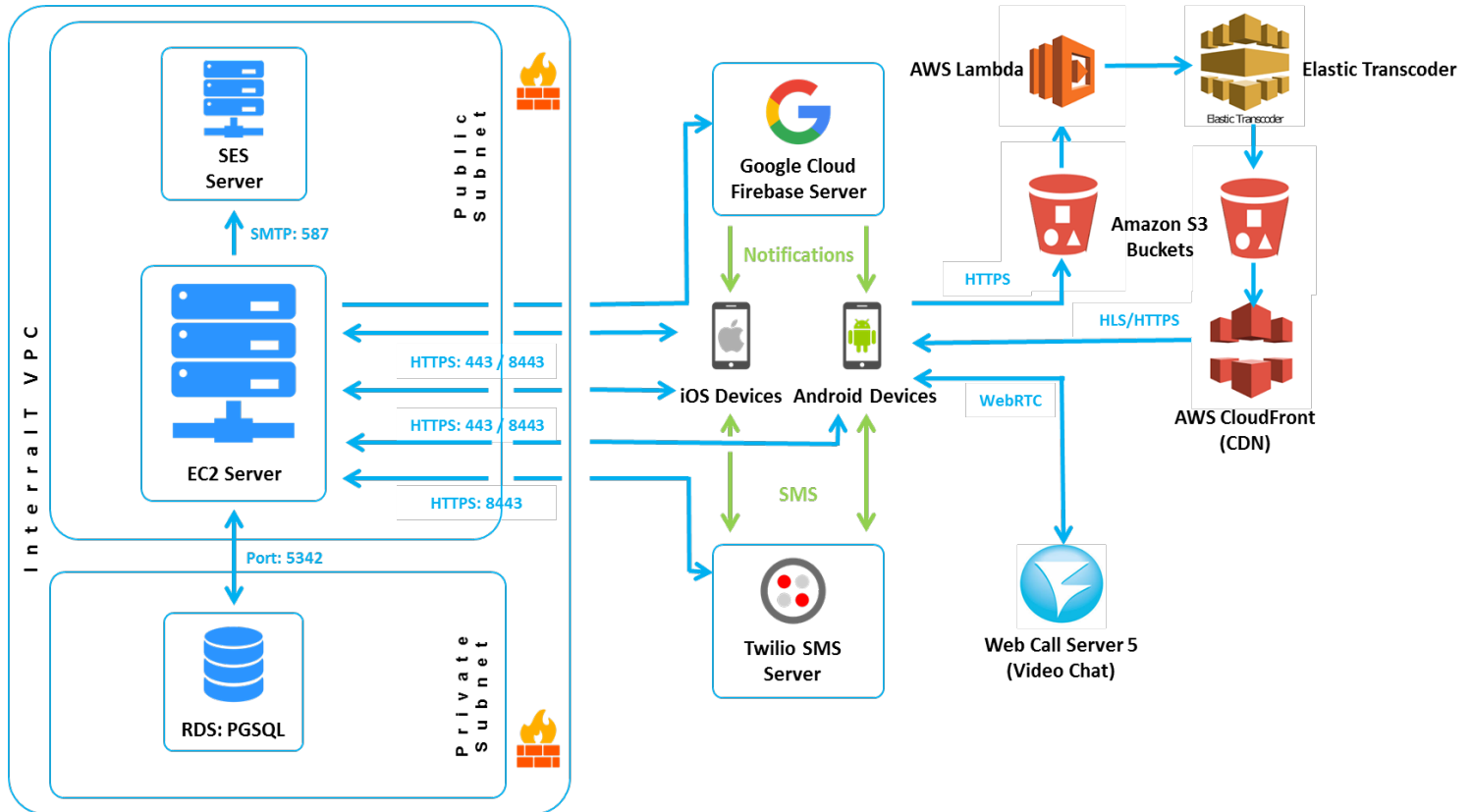
Technology

- ✓ Backend: AWS EC2; Frontend: iOS and Android
- ✓ Multimedia stored on S3 with upload accelerator.
- ✓ MP4 to HLS conversion done by Elastic Transcoder using Lambda, for streaming multimedia.



- ✓ Content Delivery through Edge Servers implemented using CloudFront that reduced download latency.
- ✓ HIPAA compliant server and application required encrypted Database and SSL for securing protected health information.
- ✓ AWS Lambda (serverless function) introduced for low overhead / cost execution.

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Business Benefits Delivered

- ✓ A generic framework for many diseases requiring patient-community-doctor-researcher collaboration
- ✓ Valuable patient data that can be used for tele-treatment, research and community motivation
- ✓ Fast Upload of Media (Video, Audio and Images) using S3 Accelerator to enhance app usability. Enhanced User Experience: Latency reduced by Cloud Front to give an impression that the Media is local.

About InterallT

InterallT is global IT consulting & services company providing business software solutions that improve operational efficiencies, address organization's unique business needs, and allow better ways to access and manage information at lower TCO & faster ROI. Established in 1996 & headquartered in San Jose, InterallT's has world-class delivery centers in India & has client-partner network spanning across the United States.

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