



Mobility-as-a-Service Technology Platform leveraging AWS Services

Digital Services

Success Story

www.indiumsoftware.com

About Client

Mobile22 offers an integrated technology platform by modernizing the operations of traditional taxi drivers and fleet service operators to level the playing field against other ride hailing giants. The platform enables seamless transit through services such as:

- a) Connecting riders with taxi providers.
- b) Enabling taxi providers to streamline their Operations.
- c) Offering superior customer experience, something not possible through existing in-house platforms.

Project Overview

Indium developed an end-to-end Mobility-as-a-Service (MaaS) system catering to Entrepreneurial ventures across different domains such as Corporate businesses, Healthcare Institutions, Schools, etc., a journey of integrated services on a highly responsive app to enable a ride-sharing model for a greener sustainable environment. The platform is built using AWS components for scalability, security, reliability, flexibility, high-performance, seamless migration and cost-effecting hosting.

Business Challenges

Mobile22 needed a highly scalable and reliable technology platform that manages customer traffic during peak hours and monitors customer insights thereby enhancing the ride sharing experience.

- Earlier, Mobile 22 used Google Map's APIs, which were not secure for outbound traffic. All outbound traffic to Google Map API calls should go via specific IPs. It was not possible with their existing infrastructure. However, Elastic Beanstalk will create dynamic IPs for new instances (Horizontal scaling) when load is high.
- Two environments, one meant for Demo to prospects and another for Training purposes to customers & employees were not fully utilized leading to extra costs.

• Platform upgrades in Production environment needed high outage duration due to the extensive services provided.

Business Application Services

Domain

Mobility, Transportation

Tools

Amazon EC2 (Elastic Beanstalk), AWS S3, Terraform, Amazon CloudFront, Amazon CloudWatch, AWS Serverless and Postgres RDS

Key Highlights

- Implemented open-source infrastructure environment with Terraform that helps expansion in future saving time and development cost.
- Achieved 99.99999% availability of objects to store and retrieve data ensuing backup and data recovery.

Solution

- Developed and Implemented application infrastructure using Terraform, open-source infrastructure-as-code tool to automate the creation of all the services and web applications along with NAT configuration for outgoing traffic.
- Developed and Implemented application infrastructure using Terraform, open-source infrastructure-as-code tool to automate the creation of all the services and integrated the same with Azure DevOps pipelines to have scheduled availability of the Database (RDS) & services (EC2 instances).
- Implemented Blue-Green deployment using AWS's Sandbox option to cutdown the duration for platform upgrades.
- Indium recommended to enable Reserved Instances for all the 13 services and 1 Multi-AZ RDS.

Business Impact

- This implementation helped setup the API calls to Google Maps secure and get a
- significant amount as waiver from Google Maps for a bill.
- Scheduled availability of Training and Demo environments helped Mobile 22 to cut costs for unutilized AWS components.
- Cut down 30 minute down time to 2 minute down time for hassle-free upgrades.
- Enabling Reserved Instance helped Mobile 22 save 15% of the overall AWS costs incurred every month.

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