

# Frontline Performance Group Optimizes IT Costs with Cloud Modernization and Application Re-architecture

## Introduction

FPG provides customized consulting, one-on-one coaching, and proprietary training to leading hospitality brands worldwide.

The client had been facing scaling issues and a few security challenges with the web application being used.

With Axiom, the client now has increased security, high availability of applications and can auto-scale operations whenever required.

## Challenges

### Single Tier Application

The client was using a single-tier application leading to increased costs.

### Scalability and Availability Issues

The client was unable to scale when required. Also, the application was lacking high availability, as all the VMs were hosted in a single zone.

### No Segregation Between Environments

The IT environment had no isolation between user acceptance testing (UAT), staging and production environments.

## The Solution

Axiom re-architecture the application from a single-tier AWS virtual machine to Microservices based multi-tier architecture in less than 4 weeks. The deployment was automated using Kubernetes.



## About FPG

FPG is a US- based management consulting company offering change management and staff training services.

The company has about 200 employees who help clients in hotel, rental car, and other hospitality-related industries increase transaction revenue, order frequency, customer and employee satisfaction, retention, and client referrals.

## Why Axiom?

Axiom, an AWS Advanced Consulting Partner, has a decade of experience in implementing cloud native workloads. With over 15+ enterprises and 50,000+ servers' migration to the Cloud, Axiom has a proven approach to harnessing the power of the cloud.

Axiom's approach provides faster, cost-effective and successful cloud transition with zero business impact.

### The team -

- Implemented Elastic Load Balancing to distribute the traffic between the application servers
- Set up high availability zones and disaster recovery practices with required backup
- The infrastructure and the applications have been hardened by executing Vulnerability Assessment and Penetration Testing (VAPT) multiple times
- Isolated the UAT, Staging, and Production environments for maximum security
- Implemented security groups on AWS and whitelisted IP addresses of users for secure access control

### The Result

With the application re-architected, the client now has -

- Over \$100,000 saved in cloud bills every year
- Increased NPS score from end-users
- A secure application with high scalability
- An intuitive and highly adaptive DevOps pipeline to deploy and configure applications automatically
- 99% of application availability is maintained by controlling web traffic with the respective GEO locations