



# Modern Platform - Microservices, OpenShift, Azure

# Business Problem

The client wanted to enhance its offering and explore cloud as an option instead of its outdated and expensive on-premise infrastructure. Since the client's applications are scaling, they are facing numerous challenges related to availability, rolling out fixes, and updates to their end-users. In addition, the current infrastructure is nested on a legacy platform affecting agility and scalability during surges, and that's a big loss to the overall experience and business.

# Solution

- Our engineering team designed and implemented the target environment in Microsoft Azure and OpenShift container to support the containerized application with the desired functionality. The environment also supports scalability without the need to change the application source code and development process.
- The team then configured the OpenShift cluster with optimum size (CPU/Memory) of the Container to further ensure no-load – least container, high load – max containers type of a setup.
- To tackle surges/traffic, the team configured Azure Load Balancers on the backend container instances.
- The team designed and implemented continuous integration by containerizing the existing application's source code to Azure DevOps.
- The team focused on building a pipeline to build container images based on new application releases. The team also designed the pipeline to deploy and update applications to the target Azure-OpenShift environment.
- Databases were containerized to Azure PaaS infrastructure and further integrated with the applications deployed in Azure cloud.

# Business Benefits

- Fully automated deployment with containerization and Azure DevOps to eliminate the need for administration.
- Zero downtime and maintenance costs for platform upgrades and patching due to managed OpenShift container services.
- Reduced time from containerized to deployment from months to days.
- Ability to distribute different services on containers instead of increasing the number of VMs thereby reducing the infrastructure costs by 55%.
- Containers spin up new environments in minutes vs days in the earlier process.

## ABOUT PARKAR DIGITAL

Parkar Digital, a Gold Certified Microsoft Azure partner, provides technology solutions for Digital Healthcare, Digital Retail & CPG. Our solutions are powered by the Parkar platforms built using Cloud, Opensource, and Customer experience technologies. Our goal is to empower a customer-first approach with digital technologies to deliver human-centric solutions for the clients

