

Modernize apps with cloud native technologies

Qatar Genome is one of the leading medical research facility, researching on advance genetics and medical IO BIO also providing medical clinics and other facilities across the country. It is also the Qatar's

largest provider of corporate fitness and wellbeing services to businesses. Currently Genome project is leveraging Azure platform for hosting they're in house and public facing applications and web portal.



AT A GLANCE

Customer: Sidra Genome

Country: Qatar

Website: <https://www.sidra.org>

Industry: Health Provider

Customer Size: Small (1 - 49 employees)

Products and Services: Microsoft Azure

Information & Communication Technology W.L.L - Sidra Medicine Azure Migration & Modernization

Customer Challenges

Qatar Genome a medical research project with multiple applications hosted on premises running on high compute machines which was generating a huge cost with less efficiency and performance. Genome Application teams had tedious application development and deployment process which was leading to longer waited releases. The on-prem solution was not capable to scale with demand and adding additional infrastructure was exceeding the project budget. Project required a web portal architecture which was flexible and could be integrated with DevOps practices for rapid application development and releases. Customer wanted to reduce their current cost of infrastructure on prem they were looking for a secure solution which can scale as needed and is highly available.

Partner Solution

ICT assisted Genome project to be migrate to cloud where they can leverage azure infrastructure & Platform as a service offering to meet their requirements. The solution consisted of a landing zone which had all the network & security components. There applications were modernized and hosted on managed platforms on azure to leverage modern technologies like Kubernetes & App services along with fully controlled environment for API apps using Azure API management services. Azure solution was configured to scale on demand and was deployed in multiple regions for high availability. For application development life cycle Azure DevOps tool chain was used which enabled collaboration between Application and Operation teams of genome. DevOps solution consisted of end-to-end continuous integration and deployment pipelines for applications and infrastructure deployments.

Customer Benefits

By moving to azure, genome team drastically reduced their costs of infrastructure and were now utilizing clouds pay-as-you-go pricing model which reduced capex with a large margin, Infrastructure management headaches were reduced. Genome project was running on services which provided autoscaling features and are highly available along with fully automated methods to build and deploy applications which enabled shorter & faster releases.

- Flexible to Create New Features & Services
- Helps to Increase the Productivity of Employees
- Get rid of Technical Debt

- Improves Customer Experience
- Security Enhancement
- Helps to Increase Revenue Streams
- 15-35% infrastructure year-over-year savings

- 30-50% lower application maintenance and running costs
- 74% lower costs on hardware, software, and staff
- 10% improvement in application operational efficiency