

eRejestracja

In 7 weeks Chmura Krajowa developed a complete nation-wide electronic COVID-19 vaccination management system that enables 36 million citizens to manage their vaccination appointments.

The challenge

The key challenge was to design and develop a bespoke software for the Polish National COVID-19 Vaccination Programme and deploy it on infrastructure that would withstand high usage peaks and provide actual 24/7 availability. The e-Registration is a system with a very high public visibility that has to manage multiple key vaccination processes both front and back-office.

The solution

The solution was built almost entirely with the use of GCP stack with Google Kubernetes Engine acting as a host for applications and services, Google Cloud Spanner being used as the main, highly scalable database and Big Query utilized as a data warehouse. GCP Cloud Armor has been employed in order to meet security requirements of the system.

The results

OChK developed a solution that enables patients to self-register for vaccination visits and helps medical entities to manage vaccination processes. The product has been delivered as SaaS and it relied primarily on GCP resources, which ensured nearly perfect horizontal scalability allowing the application to withstand the traffic generated by over 36 million people living in Poland.

“ OChK's product provided flexibility and reliability necessary to deal with COVID-19 pandemic uncertainties. The software and its modifications were provided promptly facilitating adaptation to quickly changing circumstances. The infrastructure dealt well with sudden usage peaks and allowed for virtually zero downtime deployments ensuring reliable, 24/7 availability of our services. **”**

Justyna Pancerow, Head of the Deployment Department, eHealth Center



About CENTRUM e-Zdrowia

eHealth Center is a public administration unit established to implement state-of-the-art IT solutions in healthcare. eHealth Center sets the directions and standards of building, developing and maintaining key IT systems.

Industry: Healthcare & Life Sciences

Primary project location: Poland



About Operator Chmury Krajowej Sp. z o.o.

Chmura Krajowa (OChK) is a team of over 170 experts with extensive experience in developing solutions in the cloud environment, digital transformation



Products

Google Cloud Platform