

Mediporta resigns from dedicated servers and migrates to Oktawave cloud to store medical data



Client:
Mediporta Sp. z o. o.

Process:
migration from dedicated server infrastructure to the cloud

Resources used:
Oktawave Cloud Instance, Oktawave Cloud Storage

Advantages:
scalable infrastructure, high availability, cost savings



Oktawave provides scalable and always available infrastructure for Mediporta company

The problem of resource availability reaches all growing businesses, but not all decide to change their approach and quickly migrate to the cloud. Mediporta is already in the cloud, so the company's services are safe, fast and always available.

About Mediporta

Mediporta is a company offering software for medical facilities, comprehensively supporting their work in the field of patients traffic service, taking care of electronic medical records and perform monthly settlements with the NFZ and commercial payers.

The system is offered in the Software as a Service (SaaS) model, based on a monthly subscription. Thanks to this model, the company provides advanced technologies, based on cloud computing to users who do not have expertise in the field of IT.

The entire IT infrastructure and administrative care, lies with the Mediporta company.

Situation

The Mediporta company has used only classical solutions based on dedicated servers, operating in redundant pairs in hot-standby mode. The data were stored in separate areas within the external disk arrays.

Physical servers were divided into virtual machines with specific roles, for example: separate database servers, application etc.

Such organization of IT infrastructure had some drawbacks. First of all, there were

problems with scalability. Situations related to both: the increase in the number of customers and maintenance of increased traffic that occurred periodically, were problematic.

“Our infrastructure didn’t allowed the vertical scaling of virtual machines, horizontal scaling of servers was associated with the necessity of ordering more machines in a jump manner, misaligned with the real needs” - says Marcin Mikołajczak, CEO Mediporta Sp. z o.o.

The second class of problems was related to the issue of the availability and it is worth noting that in the medical industry the highest availability and data security are the key aspects. Previous solutions have a critical point - monolithic disk arrays and their controllers. Despite the adequate protection of customer data, the possible failure of these elements could seriously interfere with the work of the company.

Arrangements

A team of specialists from Mediporta decided to redesign the architecture of the system. One of the first steps was to put the data in a file container compatible with S3/Swift. This allowed for full decoupling of application servers from the server with the data.

The next step was to find a cloud service provider. Mediporta was primarily looking for solutions that could provide an alternative to cloud platforms giants like Amazon, Microsoft and Google, especially in terms of network file systems.

Due to the sensitive nature of the data processed by Mediporta on behalf of its clients, a prerequisite for the potential cloud supplier was location in Poland and the possibility to sign an agreement for the handling of personal data.

The choice fell on the Polish cloud: Oktawave.

Migration

Experts from Mediporta developed a migration plan, with two main stages:

- Preparing the target IT environment.
- The migration of data within the data recovery process.

In the first stage, there has been launched an adequate number of servers and file containers for each client. The next step was to install and configure the software of application servers and database servers.

Due to the critical nature of the data processed in the Mediporta system, since its creation an emergency data recovery procedure was implemented, to use in the event of a catastrophic failure of data center.

After introducing minor modifications, described recovery mechanism was used in the second stage of the migration. As part of the standard maintenance window, Mediporta system was stopped and the backup was updated and sent to Oktawave. Then the old server was marked as inaccessible and the team restored the data to the new location.

Benefits

Mediporta company received the ability to dynamically - and which is worth emphasizing, on software side - control the infrastructure. This solution allowed the company to build internal administrative control panel platform which allows to manage production environments that support the company's customers.

Additional benefits include the ability to scale the size of a machine. Thanks to the use of the Swift file system, the company may, at any time, without downtime, move clients between servers in order to provide them with the best availability.

New infrastructure provided by Oktawave and new interior solutions - in the form of Mediporta administrative panel - allow the company to better meet the needs of

customers. Some of them are (to a large extent) driven by the price - in this case the infrastructure capable of precise matching to the load, is of big importance.

Other customers require larger, dedicated environments, or hybrid solutions, using the local infrastructure. Oktawave flexibility, combined with the in house Mediporta solutions in the field of backup and replication, allows the company to provide services in each of these variants.

“We knew that the migration to the cloud will eliminate the existing difficulties with scaling and availability. The cost savings are beneficial side-effect of migration that allows our company to offer customers even more competitive final solution” - Marcin Mikołajczak, CEO Mediporta Sp. z o.o. summarizes the implementation.

More information

Dariusz Nawojczyk

Director of Marketing & PR

mailto:dariusz.nawojczyk@oktawave.com

+48 694 195 846