

Alior Bank success story

"Onteon has radically speeded up implementation of the microservice platform, giving us expected level of reliability and low cost of maintenance."

Tomasz Fryc, CTO Alior Bank



Alior Bank is one of the most innovative financial institutions on the Polish market. The bank started operations in 2008. In December 2012 they debuted on the Warsaw Stock Exchange with a total value of approximately PLN 2.1 billions. Alior is a universal bank and address their services to individual and business customers. To keep up with customers’ needs they constantly modify their IT systems. One of the challenges appeared in credit system area.

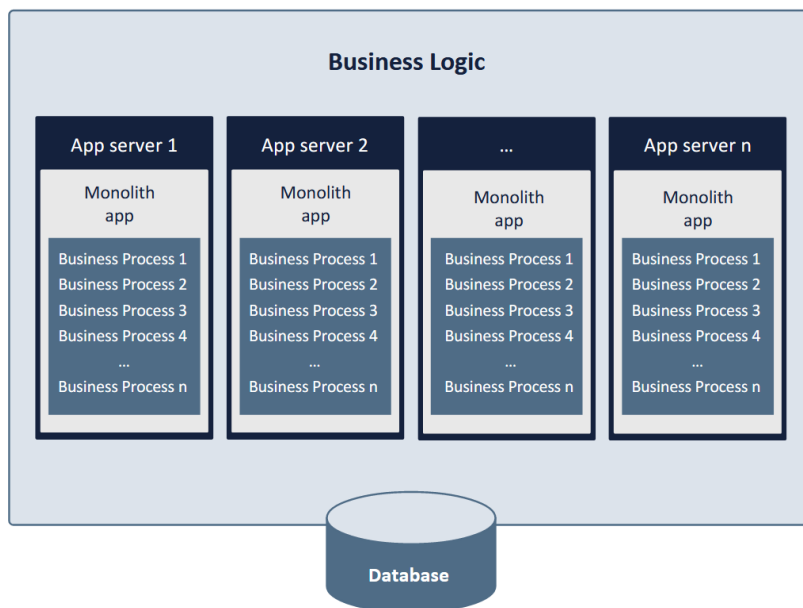


Monolith systems are very common in enterprise sector. They are problematic in case of technologies used under the hood which implies difficulties with finding developers to support it. Managing those systems is not an easy task because of the strong connections between all the components. The implementation process entails extensive testing and the need for close cooperation between teams.

Because of their disadvantages, microservices approach is being adopted in the enterprise industries to avoid the limitations and enable more value. The main issue is that these monolith systems are still being used and are still an important part of business. From an economic and risk perspective rewriting all of them is not an option – there is a need for a smooth transition into microservice architecture with small steps which are acceptable for the company.

This story happened in real life. A bank needed a credit system - it was delivered by a Polish IT company and from a business perspective the system worked. The drawback was that it was running slowly, was hard to maintain and it was supposed to be delivered as “no code” system.

As the bank was to release it’s new Internet brand and use new IT solutions, it became a business process engine (business logic platform) for critical business capabilities. About 16 business processes (from 16 departments) used it. Any change required 16 business processes tests. Moreover business processes had different life cycles, including development, releases, changes, etc. It used to create many inefficiencies and tensions among departments and teams. It also impacted plans and deadlines.



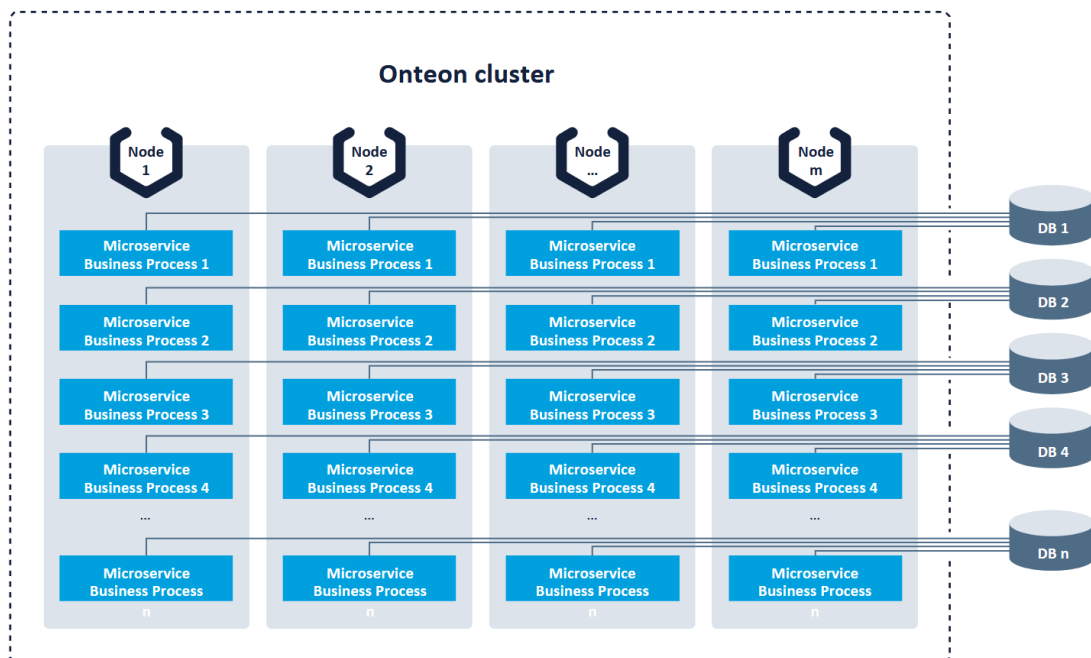
The effortless route to modern environment

even for legacy applications.



Decision was taken to make it more agile and split the monolith application to microservices. From this time each microservice could be deployed, changed, upgraded according to the specific life cycle of this process, not interfering with others.

All processes ran in a parallel and in a asynchronous mode. It allowed the Bank to shorten time to market for business capabilities. It was a success thanks to the transition which was made. How was it accomplished?



Thanks to the Onteon it is possible to run legacy applications in the same way as it was before. It can be transformed into a technical process which is nothing more than an operating system process. It can also be configured in Edge Balancer to handle communication to the system through it. From this point the application is running under control of Onteon. With its zero downtime deployment it increases availability and higher SLA. There are at least two options now for the company on how to continue the transition.

The first one is to split monolith application and extract parts of code to separate processes (microservices). Because Onteon uses its own BDTP protocol with balancing, service repository and service discovery support, this task is easy from a developer perspective. If a system is using a dependency injection mechanism it is required only to change the implementation object to a proxy generated by the Onteon library.











The extracted part of code is not changing. Only some Onteon configuration files are added to tell the system which objects are exposed for remote invocation. The work is so simple that it could take even one day to split the system.

The second approach is to leave the system as it is and add new features as new microservices. They can be written on Onteon which also improves application delivery time and shortens time to market for a company.

What is important is that in both cases the whole system can be managed from a single place no matter if it is a legacy part or newly added microservices.

Benefits

With Onteon, you can build applications. Furthermore, you can also establish the entire environment infrastructure for an application. Onteon's application orchestrator and monitoring solutions are comprehensive. What's more, the developer APIs all employ super-efficient communication protocols, and you may use the technologies you already know and use. Onteon runs applications in containers and containerless as well if needed. Our software helps you develop and maintain both modern and legacy applications. With Onteon, transitioning legacy applications to a microservices architecture is quick and easy.

 <p>Reduce costs Lower TCO</p>	 <p>Reduce time Shorter time to production and time to market</p>	 <p>Reduce carbon footprint Consider the future of our planet</p>	 <p>Essential toolset Includes all tools</p>	 <p>Support for all apps Supports all kinds of apps</p>
 <p>Easy to use End the war with software tools.</p>	 <p>High-performance Use computing resources with maximum efficiency.</p>	 <p>Flexible deployment On-premise and multicloud</p>	 <p>Business continuity Deploy and upgrade with zero interruptions</p>	 <p>Effortless upgrade in-place upgrade including production environment</p>

