Trustsoft
Cloud Operations Partner

EW EUROWAG

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Advanced Tier
Services

Eurowag - migration from on-prem to AWS with MAP

Eurowag provides smarter solutions to optimize commercial transport business. With their fuel cards they simplify payments for fuel, tolls, and services. Thanks to their technology efforts many transport companies enjoy cashless payments across Europe with focus on security and efficiency. To be able to expand their availability to new customers and to provide better scalability to present customers, Eurowag decided to migrate to AWS and asked Trustsoft to help them.

Their solution was on prem, where they were running multiple applications and database, that was used by Eurowag's partners. Database was also running in Oracle, which was not only expensive but very limiting in terms of compatible services. Due to a large amount of data collected through the years which were on servers, Eurowag was a bit worried about the migration that was needed.

Eurowag's mission was to provide seamless and secured services for their partners and the ability to add more partners. Their solution was based on the two main applications:

- PMG (payment management gateway) that serves as authorisation centre
- database – which runs in Oracle

Our assignment
We were asked to propose the best, scalable and the most efficient and secured solution on the AWS cloud and provide it without the system outages. We were also informed that the client was not happy with the Oracle database solution. After the first analysis and the information obtained, we offered Eurowag to join our AWS Migration Acceleration Program (MAP).

What is MAP
The Migration Acceleration Program (MAP) is a comprehensive and proven cloud migration program based upon AWS's experience migrating thousands of enterprises and SMD customers to the cloud and on an outcome driven methodology.

- rapid evaluation of current workload and infrastructure
- estimation of cloud solution costs
- company readiness for cloud migration
- discovery of critical knowledge gaps
- fast prototyping and evaluation of the target solution
- security and compliance assessment

What we did
After the assessment phase in MAP we built the whole new network infrastructure in the AWS cloud. We ensure the communication between modules through the network of load balancers, transit gateways and VPNs. We also prepared special access through more than 130 VPNs for Eurowag's partners, each of them has their own 3 secured communication environments for main, backup and test productions.

By moving apps and data to AWS we removed the dependence on the third-party datacentre, optimized the cloud fee costs and created scalable and high available environment. Transferring database from Oracle to PostgreSQL we enabled client to benefit from the use of compatible services. We also simplified the onboarding of the new partner into the system with automated templates. The infrastructure is delivered as a code (IaC), all operations with the code - builds, deployments, artefacts distribution are automated.

Before	Now
• EXPENSIVE MANAGEMENT OF ORACLE DATABASE	• NEW STABLE INFRASTRUCTURE IN AWS
• ON-PREM SOLUTION	• SCALABILITY
• OUTAGES	• HIGH AVAILABILITY
• NO SCALABILITY	• POSTGRESQL OPEN-SOURCE SOLUTION
• COMPLICATED PARTNER ACCESS INTO THE SYSTEM	• 3 SECURED ENVIRONMENTS FOR EACH PARTNER
	• EASY PARTNER ACCESS

Used services:

aws | Route53 | AWS Control Tower | AWS Security Hub | AWS Organizations | AWS Config | EC2 | S3

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webnode

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Webnode - Migration from on-prem to the AWS through MAP

Webnode is an international website builder that provides users with a simple, intuitive platform to create their own website. Their WYSIWYG editor and customizable templates make it easy for anyone, regardless of technical ability, to build a professional-looking website. With Webnode, you can create a website for your business, portfolio, or personal blog. They also offer a variety of tools to help you optimize your website for search engines and social media, so you can get more traffic and reach more customers.

Customer satisfaction is Webnode's top priority, and the company works extremely hard to handle everything independently. They do all of the planning, programming, testing, and management themselves, with a provider storing the entire infrastructure in two datacenters in Prague and Brno.

Starting point
When we came into the picture Webnode already knew that they wanted to migrate to the cloud and they already had the team ready. Their vision was to migrate the whole solution to AWS because they needed:

- modernize the application
- to open up to newer technologies necessary to change the architecture
- better scaling, higher performance and better configurability
- replacement of old HW in on-prem environment

We provided the team not only with the knowledge of AWS but we also helped them to opt for the IaaC solution instead of manual configuration, which will get rid of the future production problems.

What we did
Webnode was the perfect candidate for MAP (AWS Migration Acceleration Program) so we funded these two phases of MAP (Assess and Mobilize).

In Assess phase we provided:
- total cost of ownership and approximate amount of spend in the next 3 years
- target architecture design
- trainings focused on DB (RDS and Aurora) and DevOps

In Mobilize phase we:
- created new AWS account
- built Landing zone
- created a prototype of a DB solution (comparison between RDS and Aurora in terms of price, availability, durability, performance, RPO, RTO..)
- designed the whole infrastructure based on the prototype
- built monitoring based on the open-source tools (Prometheus, Grafana, Grafana Loki)

What is MAP
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- company readiness for cloud migration
- discovery of critical knowledge gaps
- fast prototyping and evaluation of the target solution
- security and compliance assessment

Continues support
We provide 24x7 operations and support of the whole infrastructure and additional knowledge sharing.

Before
- ON-PREM SOLUTION
- NO SPACE FOR GROWTH AND INNOVATION
- CLICK OPS SOLUTION IN THE WORKS THAT WOULD CAUSE PROBLEMS
- LESS KNOWLEDGE ABOUT AWS
- INABILITY TO CONFIGURE INFRASTRUCTURE ON-PREM

Now
- AWS CLOUD
- LANDING ZONE
- IAAC
- KNOWLEDGE TRANSFER
- ADOPTION SPEEDUP
- MAP

Used services:

aws | Prometheus | Grafana | Grafana loki | Landing zone | Amazon RDS | AWS Aurora