



SUCCESS STORY

Automated deployment of open source and enterprise applications
Get to the right software product faster with a DevOps platform

VALEO IT Services International GmbH

SAAS-SOLUTION

DEVOPS-BASED PLATFORM

**Automated deployment of
open source and enterprise applications**

Get to the right software product faster with a DevOps

Stay innovative, simplify processes and increase productivity. For companies, these goals are an enormous challenge in times of tight budgets and resources. A prime example of how the synchronised interaction of software development and IT operations can streamline processes and reduce costs is a DevOps-based platform.

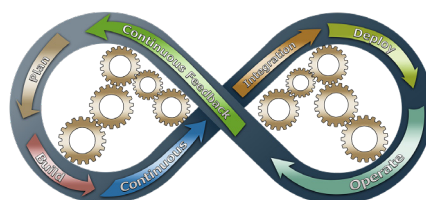
The SaaS-Solution provided by VALEO IT Services International can be fully integrated into technologies such as IoT and AI and supports customers in making software-based process optimisations and new services available and usable within the shortest possible time.



DevOps combines the abbreviations “Dev” (development) and “Ops” (operations) in one term. This is an approach that eliminates the typical separation between software development and operational IT in the past in order to achieve secure results more quickly with the help of automation and collaboration.

Irinel Alexandru Bogdan

Senior DevOps Engineer
Infrastructure Services - DevOps EU
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VALEO IT Services International GmbH

“Today, no one can afford to invest months, if not longer, in developing software and corresponding releases,” knows Erwin Szabo, Head of Global Services. “However, to do this within weeks, days or even a few hours requires a move away from traditional silo thinking and other outdated methods that are still frequently encountered today.”



FOCUS ON AGILITY, COMPATIBILITY AND CONTINUITY

Behind the development of the devops platform of valeo it services international is a global team specialised in infrastructure management and application development. It has its eye on the trend towards mobility and flexibility, which requires web-based solutions with a secure back-end. DevOps is also an ideal approach for bringing software for online services, apps or even process optimisation in production and assembly into practical use in the shortest possible way.

DevOps is not new, yet the it specialists from Luhe-wildenau are pursuing their very own aspirations with the platform they have designed. “The goal is to facilitate the deployment and management of applications in a variety of environments, ensuring full compatibility and continuity for the customer’s infrastructure and business,” explains Senior DevOps Engineer Irinel Alexandru Bodgan. “As part of our devops service, we provide complete support for the platform, which also extends over the entire deployment lifecycle of a software application.”

PROVEN TOOLS AND METHODS PERFECTLY COMBINED AND REFINED

The prerequisites for achieving this are the most modern tools and methods as well as open, constructive communication between the partners involved, who are working on various projects in the automotive world, in the e-commerce business or even in other industries. In the process, there is no clinging to preserved knowledge. Rather, developer and operational IT teams share their know-how with each other and contribute best practices. This is done according to the principles of agile project management methodology or programming.

VALEO IT Services International’s collaborative DevOps platform simplifies this process even further: it is based on the Infrastructure-as-a-Code (IaC) concept, which generates IT infrastructure services as codes, thus creating the conditions for testing and automated deployment of customised DevOps products developed in a single process. The most modern technologies are used, such as Terraform, Ansible, Python, Groovy, Angular, Jenkins and Harbor. The entire infrastructure, in turn, runs in the AWS cloud from Amazon Web Services. The advantage of this integration is that the resources provided in the cloud can be scaled to the application to be executed. Even with high dynamics, the database load is moderate.

INTERNATIONALLY PROVIDED SAAS-SOLUTION

QUICK START THANKS TO BARRIER-FREE PORTABLE CONTAINERS

In the so-called DevOps pipeline, which provides a clear framework for developing, creating, testing and deploying, state-of-the-art container technology is used, which also ensures the necessary consistency of the code.

All relevant sources and dependencies are compressed in these containers. With just one of these containers, both microservices and more complex software applications can be executed via the code.



They can also be used independently of the operating system. For example, they can be transferred from a laptop or tablet to a PC, to a virtual test environment or directly to the customer's warehouse or production facility. With the release or provision of a code, a reusable system module is created in parallel that can be used continuously for further optimisations.

AUTOMATION & COLLABORATION - BENEFITS OF "NEW WORK" IN THE IT ENVIRONMENT



"The DevOps infrastructure created via our generic platform provides a combination of tools, processes and practices that support the development, deployment and ongoing maintenance of software applications," summarises team leader Laura Legian. "This includes version control systems, tools for perpetual automated integration and deployment, configuration management, and control and logging tools."

This infrastructure is permanently maintained and further developed by her and her team at VALEO IT Services International in order to make software applications available in the fastest possible way in a quality-assured manner and to provide the best possible support throughout the entire deployment cycle.

Since authorised participants can access the platform via the web regardless of time and place, it also meets the mobility requirements of modern economies. It also offers a high degree of flexibility, as it is open to all business processes and models across all sectors. Erwin Szabo, Head of Global Services, adds another aspect: "Networking and software development and IT operations also has the advantage that operations teams on site are relieved of their work. This saves time, resources and costs to a not inconsiderable extent."