

Case Study

Cloud CMS Showcase Setup

Solution that uses the cloud technology to rapidly deliver scalable, easily manageable infrastructure to showcase a web-based CMS.

AWS

KUBERNETES









DOCKER

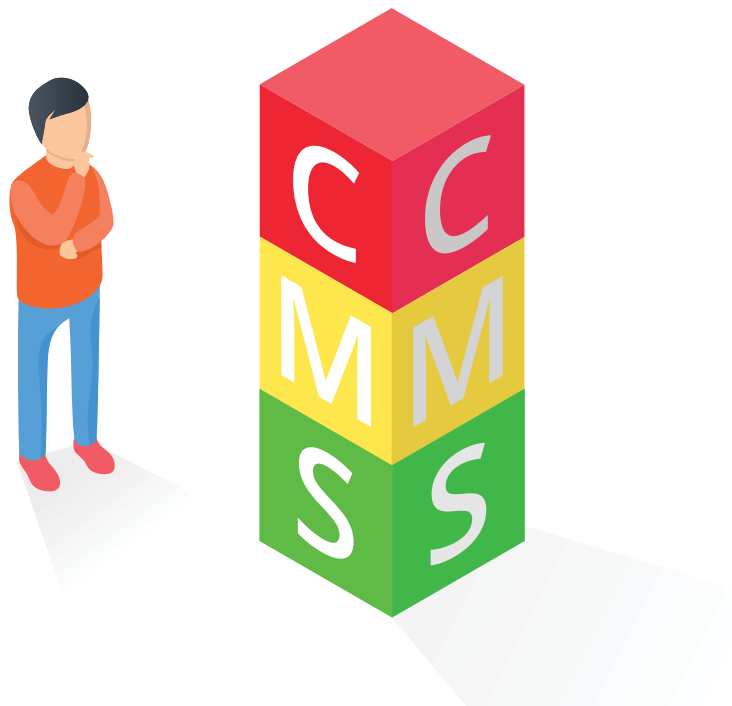
ANSIBLE

JENKINS



Case Info

-  **Location:** Germany
-  **Industry:** IT Services
-  **Partnership period:** January 2017 - ongoing
-  **Team size:** 2 - 8 people
-  **Team location:** Kharkiv, Ukraine
-  **Services:** Cloud infrastructure design and development, DevOps-as-a-Service, Big Data solutions, Web Development, QA and testing, Product and Infrastructure monitoring
-  **Expertise delivered:** AWS cloud administration, Machine Learning, DevOps services, Big Data architecture, Python development, Data science, Data visualization
-  **Technology stack:** AWS, Kubernetes, Docker, Ansible, Jenkins

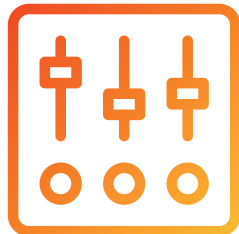


Client's goals

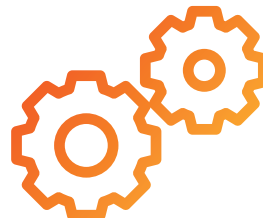
One of the features of the CMS is the rigidity of the page layout, which is configured in front end service. **It allows the content to be updated** in a web interface by anyone who has appropriate permissions, **without the necessity to meddle with the source code itself**. The client wanted us to provide the following improvements:

- Migrate the showcase from Mesos/Marathon environment to Kubernetes
- Shorten the product deployment time
- Add the missing features
- Configure error-proof update and recovery procedures
- Introduce the Continuous Delivery pipeline to automate the setup and configuration as much as possible
- Split the monolith app into microservices to provide stability
- Containerize the components for scalability
- Deploy an in-depth monitoring and logging solution

That would make the product enterprise-ready, as it was aimed to be offered to high-level EU enterprises.



Development of a web-based
Coremedia CMS modules
and structure



Splitting the monolith app into
microservices to improve
the performance



Provisioning, configuration
and management of required
AWS infrastructure



Shortening the CMS setup
time from **4 hours to 15 minutes**

Project requirements

The main customer pains were the following:

- The CMS itself is a **monolith product** built in Java, with more than **100 modules**
- There are more than **15 processes** interacting with each other, creating **high workload**
- A **setup process was a real pain** for the customers and required following a **complicated checklist**

Project results

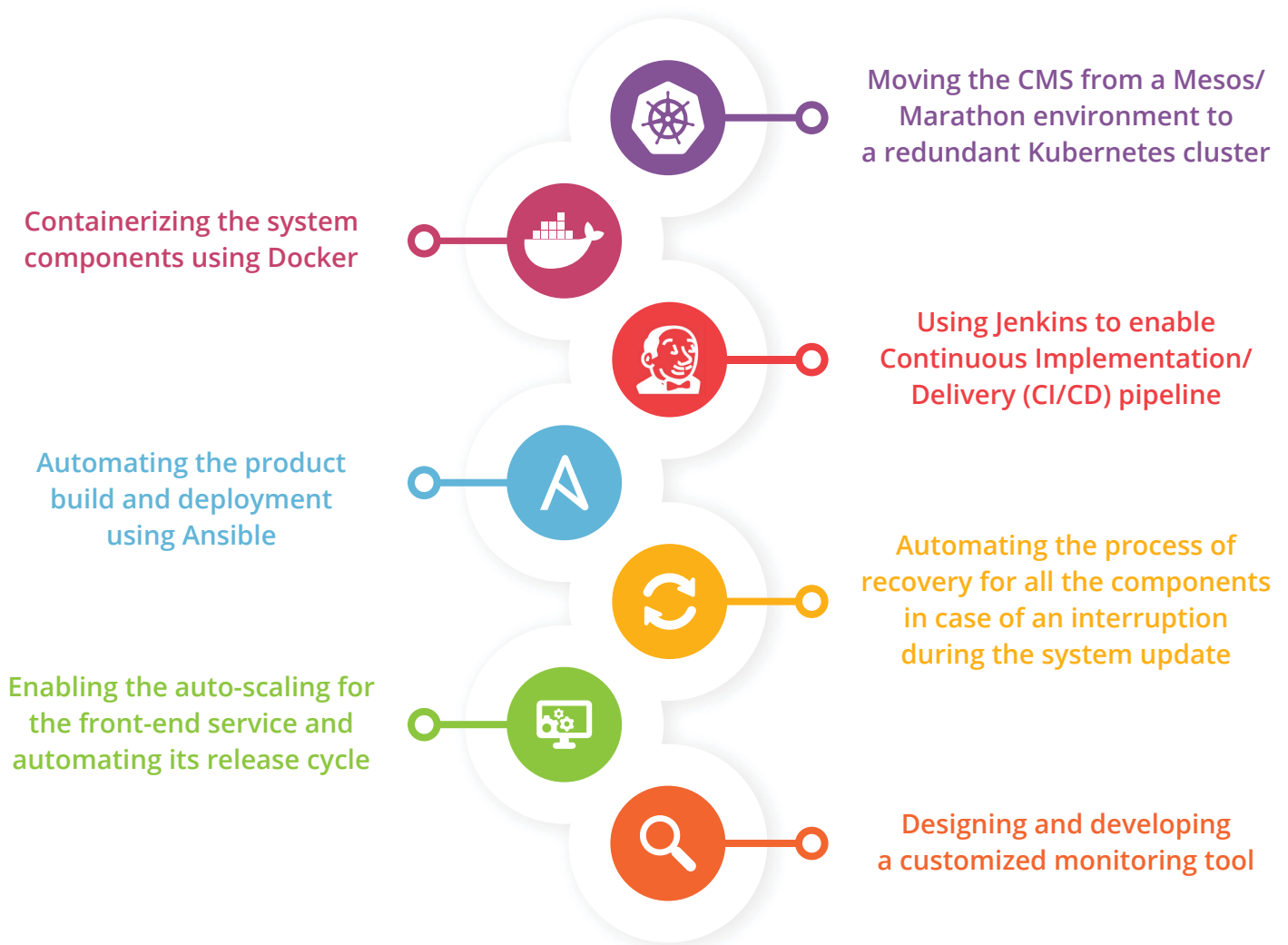
The product is now enterprise-grade and production-ready. The customers currently interested in the CMS are a truck manufacturing giant, several leading media and a popular retailer, just to list a few. The process of the CMS setup and deployment is now fully-automated and the product has also got features like:

- **3 commands** to deploy the CMS
- Deployment time shortened **from 4 hours to 15 minutes**
- **Auto-scaling** of the cluster nodes
- **In-depth logging** and analytics
- **Real-time monitoring** and smart alerts



Challenges resolved

IT Svit performed a test deployment of the CMS and analyzed all the dependencies and possible bottlenecks an IT engineer might face. We then performed the following improvements :



“IT Svit is knowledgeable and diligent, successfully implementing a complex CMS on time. Their team is always available for solving any unexpected server issues and is proactive in providing feedback and daily updates.

Masiar Ighani, Senior Software Developer and CEO,
Skillbyte Gmb

About Us



BIG DATA



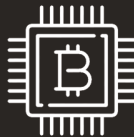
DEVOPS



MACHINE LEARNING



WEB DEV



BLOCKCHAIN



STARTUPS

For more than **12** years IT Svit helps the companies worldwide innovate and overcome their challenges. We have completed more than **600** projects, delivered successful projects for **6** Fortune 500 companies, helped **16** startups secure the investment and develop awesome MVPs. Our team of **50+** specialists provides services that earn **4.9** out of 5 customer satisfaction on Clutch.co.

IT Svit specializes in DevOps services, Big Data technology, Machine Learning, bespoke Blockchain platforms, full-cycle services for startups, web development and QA.

CONTACT US

Turn your ideas into successful cases with

