KUBERMATIC

How Temial Delivers High Growth on IoT With Scalable Cloud Native Infrastructure

The Challenge
Get Ready to Scale

Temial is a smart tea maker that combines state-of-the-art IoT technology with century-old traditional tea culture. The company was launched in 2019 as an in-house startup of the Vorwerk Group with the clear objective to grow massively over the next couple of years. In order to build a solid base for their business success, they were looking for a highly reliable and scalable infrastructure to operate and develop the IoT product, as well as provisioning for a quickly expanding internal organization.

The Solution
Migrate to a Highly Automated Cloud Native Infrastructure

To achieve the reliability, scalability, and performance they needed, Temial decided to migrate to containerized applications on a hosted cloud platform. They also understood the requirement for substantial automation, so that resources could be invested into delivering better features in a shorter time to market. That's why Temial decided to leverage Open Telekom Cloud and Kubermatic Kubernetes Platform (KKP) to maximize Managed Kubernetes Services with minimum operational overhead.

The Impact
Ready to Innovate and Scale

With Open Telekom Cloud and Kubermatic Kubernetes Platform, Temial now has the state-of-the-art infrastructure they need to support their scaling business model. With the new setup, they are able to extend their infrastructure in a matter of minutes – not hours, days, or even weeks. At the same time, operational complexity has significantly decreased so they can focus on the continuous innovation of their IoT technology to stay ahead of their competitors.

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Empowering Massive Growth With Customer Centricity

As the newest member of the Vorwerk household product line, Temial's main objective is to grow massively in the next couple of years. Their operations team was challenged to realize their organization's business success in many different ways.

First, Temial's brand strategy is focussed on being customer-centric and committed to providing their customers with the simplest and best user experience. Temial's mobile apps play a crucial role in this by accurately monitoring the Temial tea maker for customers with low latency for internal communication and servers.

Moreover, Temial's mobile apps and their webshop offer the customer a beautiful tea experience on a whole new level with custom tea recipes and brewing timers. So freeing up time and resources for product innovation and frequent releases was also a critical requirement.

Finally, Temial needed to ensure that their IT infrastructure was up and built on a scalable design, both customer-facing as well as for their internal organization which includes a quickly expanding sales force.

Entering the Cloud Native Era

When evaluating their options, the Temial team quickly realized that working with containers is much more reliable, flexible, and efficient than working with a legacy environment, especially when combined with cloud computing. They discovered that the new cloud native technologies would allow them to extend their infrastructure in a matter of minutes rather than hours, days, or even weeks.

Temial is a long-standing customer of T-Systems and their Open Telekom Cloud, which provides a Cloud Container Engine based on Docker and Kubernetes. After successfully migrating to containerized workloads orchestrated by Kubernetes, the Temial team decided they needed an even greater degree of automation. They wanted to invest in new features that would take over repetitive tasks and react automatically to operational issues. Their objectives also included automating, monitoring and alerting for all business-relevant components in the infrastructure and those alerts had to be fully integrated with other systems in order to properly manage disaster recovery.

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Thanks to Kubermatic Kubernetes Platform's out-of-the-box integration with Open Telekom Cloud (OTC) and its self-service capabilities, it was an easy decision to use KKP to create a Managed Kubernetes Service to meet the desired requirements.

Smooth, Easy Rollout of Kubermatic Kubernetes Platform

After the decision was made and the implementation process prepared, Kubermatic Kubernetes Platform was rolled out to their development environments in just a few days. With KKP, Temial's infrastructure management efforts declined significantly and even critical updates are now much easier to handle. In addition, KKP remarkably reduced the complexity of the environment: the number of files decreased from 318 to 27 and the lines of code from over 77,000 to less than 3,000. By leveraging Open Telekom Cloud with the Kubernetes automation capabilities of KKP, Temial now enjoys a state-of-the-art infrastructure, which is able to support their aggressively scaling business model while keeping maintenance to a minimum.

# of files
decreased from 318 to 27

Lines of code
decreased from 77k to less than 3k

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By introducing Kubermatic Kubernetes Platform as our IoT infrastructure, we have made a big step forward towards automated system maintenance and error handling. The migration to Kubermatic Kubernetes Platform was absolutely hassle-free. In the interim, we expect even greater scalability and availability of our services while further reducing our maintenance efforts.

Alexander Kawka, Product Owner Vorwerk Temial

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Temial is the latest innovative start up within the Vorwerk Group, dovetailing elegantly into their strategic focus on smart households. The Temial tea maker with its IoT features and functionalities is at the heart of this ecosphere, complemented by an inspiring portfolio of different loose-leaf organic varieties and accessories. With Temial, consumers can explore the fascinating world of teas and enrich their daily life with a state-of-the-art tea experience.

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Kubermatic empowers organizations worldwide to fully automate their Kubernetes and cloud native operations across multi-cloud, edge and on-prem. As a Top 5 corporate contributor to the Kubernetes Project in 2019, Kubermatic develops enterprise-grade software solutions and provides professional services and support to safely navigate and accelerate the cloud native transformation. Leading enterprises including Lufthansa, Bosch, Siemens, and T-Systems trust Kubermatic on their cloud native journey.

Want to Know More?

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