tecRACER
Cloud Enabling Your Business

tecRacer automates operational tasks for SEEBURGER

With its Business Integration Suite (BIS), SEEBURGER AG offers more than 4,000 companies worldwide an agile, secure, and scalable platform for integrations between applications, people, and processes. Together with tecRacer, this platform has now been set up as an Integration Platform as a Service (iPaaS) in Amazon Web Services (AWS). The aim was to fully automate the provision of customer environments and operational tasks. With iPaaS on AWS, SEEBURGER AG can offer a scalable, highly available, and secure platform.

To the cloud with automated application installation

Seeburger chose tecRacer as an AWS Premier Tier Services Partner in the Amazon Partner Network (APN) for the design and implementation of the architecture of the customer system. The main task was to create templates for the highly standardized and automated provision of new customer environments as Software as a Service. To do this, tecRacer used Terraform to provide the infrastructure components and the Ansible automation tool for software installation and individual configuration. Each system component is always distributed across two availability zones to ensure the high availability of the systems. Network security is ensured by means of a Web Application Firewall (WAF) and extensive network segmentation based on the principle of least privilege (PoLP). In addition, tecRacer designed and implemented an AWS landing zone for SEEBURGER for the scaled and isolated operation of each customer system in its own account.
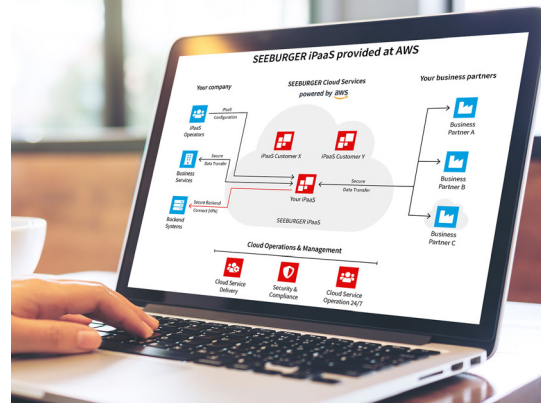
Scalable, automated, secure and ISO-certified

All components of the solution were built with scaling and security in mind. For example, the use of the AWS IP Address Manager and AWS Transit Gateway allows the network to be easily expanded to include new customer systems. Security was a top priority for the multi-account structure and the network by isolating the individual customer environments from each other. In addition, tecRacer established a backup, monitoring, and patching infrastructure that enables the automated operation of potentially thousands of servers. An automation infrastructure was created using Jenkins Pipelines in order to be able to provide and operate software across all customers. A particular focus was placed on certifying the system landscape in accordance with ISO 27001, with Security by Design being one of the guiding principles. Tools such as the AWS Security Hub were used for this.

Operational excellence reliably available worldwide

By implementing the complete automation of provisioning and various operational tasks, the main objectives of the project were achieved.

The time required for the initial provisioning of a new customer system was reduced from several weeks to just a few hours. In addition, SEEBURGER can now offer its iPaaS solution worldwide thanks to the global infrastructure of AWS. The combination of SEEBURGER iPaaS and AWS features provides maximum availability and replication across multiple availability zones. It is also flexibly scalable to cope with peak loads. The low-risk, transparent pricing model helps to increase operational cost efficiency. By successfully completing the AWS Foundational Technical Review (FTR), SEEBURGER iPaaS meets the standards for security, reliability, and operational excellence set out in the AWS Well-Architected framework.

Contact person at the customer:

Robin Balkow, AWS Product Owner, SEEBURGER AG

"With the expert support of tecRacer, we can offer our customers individual software solutions via AWS worldwide. The system is scalable, secure and efficient."

![tecRACER logo - Cloud Enabling Your Business]

CUSTOMER: SEEBURGER AG.

Project Goals
- ■ Relocation of software solutions from in-house data centers to the cloud
- ■ Fully automated provision and operation of customer environments

Project Duration
January 2023 to March 2024

Project Services tecRacer
- ■ Design of the architecture and implementation of customer environments
- ■ Creation of templates for the configuration of customer environments
- ■ At least two availability zones for high availability
- ■ Securing the network
- ■ Design and implementation of the AWS landing zone
- ■ Multi-account structure with special focus on isolation of customer environments
- ■ Structure of the network with a focus on scaling
- ■ Setting up operations: backups, monitoring, patching
- ■ Setting up the automation infrastructure
- ■ Support for ISO security certification
- ■ Implementation of AWS security tools such as Security Hub

Tools and Services
- ■ Infrastructure with Terraform
- ■ Software installation with Ansible
- ■ Web Application Firewall (WAF)
- ■ IP Address Management (IPAM)
- ■ Jenkins Pipelines
- ■ AWS Security Hub

About tecRacer
tecRacer, based in Hanover and with eight other locations in Duisburg, Hamburg, Frankfurt, Munich, Mannheim, Vienna, Geneva, Zurich, and Lisbon, offers AWS (Amazon Web Services) consulting, training, managed services, and project management from a single source - seamlessly integrated across the entire cloud lifecycle - from strategy to implementation and operation.

The strategy remains the clear focus on Amazon Web Services. Here, tecRacer has been recognized as a leader in the ISG Provider Lens 2022 AWS Ecosystem Report for the third time in a row. And the focus on AWS proves tecRacer right: Since 2019, tecRacer has received the "AWS Consulting Partner of the Year DACH" award three times in a row. The owner-managed company, which has been recognized as a top employer for SMEs, now has more than 150 permanent employees, has trained more than 12,000 participants in AWS, and has already successfully implemented hundreds of AWS consulting projects.

You can find more information at www.tecracer.com or contact us at sales@tecracer.com.

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