

Infineon Technology AG uses Red Hat OpenShift Platform Plus as Hybrid Cloud Platform



Software and services

Red Hat® OpenShift®
Platform Plus

Red Hat Technical
Account Management

Red Hat Training

Founded and headquartered in Germany, Infineon Technologies AG is a global semiconductor leader in power systems and IoT. Infineon drives decarbonization and digitalization with its products and solutions. The company has around 56,200 employees worldwide and generated revenue of about €14.2 billion in the 2022 fiscal year (ending 30 September). While further expanding the manufacturing capacities and continuing to grow in terms of revenue, it needed to ensure the performance and security of its processes. The company decided to switch to a container environment for the internal development of dedicated tools used in semiconductor development and production. Thanks to the enterprise-supported technologies and hands-on guidance from its Training and Technical Account Management programs, Red Hat proved to be a great partner to help Infineon speed up and simplify processes, while keeping proprietary information safe.



Manufacturing

More than **56,000** employees
(as of 30 September 2022)

Benefits

- ▶ Created state-of-the-art scalable infrastructure that can scale in minutes instead of hours, days, or even weeks
- ▶ Accelerated processes resulting in faster time-to-market
- ▶ Increased security of intellectual property

“The new environment allows seven times faster deployments and is twice as efficient compared to our standard environment.”

Hansjörg Sonnleitner

Senior Vice President Operational Services, Infineon Technology AG

Addressing secure development within a growing company

As one of the largest semiconductor manufacturers worldwide, Infineon must remain agile, particularly since it is dedicated to sustainability of both its solutions and carbon footprint. With operations growing, the company needed a scalable cloud-native infrastructure to enable digitalization while supporting its mission to make life easier, safer, and greener.

The company needed a standardized hybrid cloud platform for custom application development and custom off-the-shelf applications. "The lead time for new applications from first discussions to going live was too long," said Hansjörg Sonnleitner, Senior Vice President Operational Services. "We wanted rapid prototyping and a safe testing playground in which we could test code and then scrap it."

Working with the best

"We rely on best-in-class processes and products to serve our customers in the best way possible," Sonnleitner explained. "Our partners must have a proven competence and be able to design and deliver strong and trustworthy solutions."

Infineon had already implemented Red Hat Enterprise Linux on bare metal as its Operating System Platform for the internal High Performance Compute Clusters enabling semiconductor development and production. "When we learned that Red Hat has a container platform, we decided to implement it which, in short, was a success," said Sonnleitner. The evolution of the OpenShift environment encouraged Infineon to switch to Red Hat OpenShift Platform Plus for a unified set of services, principally its centralized advanced cluster security capabilities.

To encourage learning and ensure best practices, Infineon took advantage of Red Hat Services, Red Hat Technical Account Management (TAM) and Red Hat Training.

Creating a scalable and secure solution that saves time and effort

Created state-of-the-art scalable infrastructure that can extend in minutes

With Red Hat OpenShift Platform Plus, Infineon now has a state-of-the-art cloud-native infrastructure that supports its scaling business model. This new setup allows Infineon to scale its infrastructure in minutes instead of hours, days, or even weeks. What's more, operational complexity has significantly decreased, which allows the company to focus on the continuous innovation of technologies and staying ahead of the competition.

Accelerated processes resulting in faster time-to-market

Infineon can now deploy applications much faster and perform rapid prototyping and code testing. "The new environment allows seven times faster deployments and is twice as efficient compared to our standard environment," said Sonnleitner. "Red Hat OpenShift Platform Plus simplifies a lot since you don't have to interoperate with so many other systems from a traditional environment. An idea can be brought to market faster. Another plus: our software developers and application owners can now work even more efficiently."

Increased security of intellectual property

Infineon's intellectual property remains secure because the company can keep prototyping platforms on-premises. "We need a very strong system, application, and software security, and we have clear compliance guidelines on those," said Sonnleitner.

Included in Red Hat OpenShift Platform Plus, Red Hat Advanced Cluster Security offers Infineon the required built-in Kubernetes-native security, providing multi-cluster governance through the entire application life cycle.

"With its advanced security capabilities, this platform enabled us to see the vulnerabilities in the configuration and application. And now, in DevOps, we can keep applications secure," said Sonnleitner.

Focusing on sustainability

Infineon has a keen drive to achieve sustainability in terms of technology solutions, employees, and the impact of its manufacturing operations on the environment. Thus, Infineon is looking at how to align the company operations with its sustainability goals.

"One part of our mission is to make life greener, and the new solutions can contribute to this effort through efficiency gains," said Sonnleitner. "We need to reduce our carbon footprint and the containers in our data centers are contributing to achieve this goal."

The company's focus also includes the knowledge and skills journey around the new platform. The company has already delivered internal training to 1,000 employees and will offer further workshops and hands-on courses.

Infineon wants to keep building on existing successes, having internal customers share best practices, and creating a closer link between ideas and progress across the organization in a secure and managed platform. The company thus has established a large community for best practice sharing on a broad range of different topics around OpenShift. Some forums already have close to 400 members.

"It is great to have Red Hat on our side to build on best practices in the area of cloud solutions, boosting us at Infineon to become a truly best-in-class digital company," said Sonnleitner.

About Infineon

Infineon Technologies AG is a global semiconductor leader in power systems and IoT. Infineon drives decarbonization and digitalization with its products and solutions. The company has around 56,200 employees worldwide and generated revenue of about €14.2 billion in the 2022 fiscal year (ending 30 September). Infineon is listed on the Frankfurt Stock Exchange (ticker symbol: IFX) and in the USA on the OTCQX International over-the-counter market (ticker symbol: IFNNY).



About Red Hat Innovators in the Open

Innovation is the core of open source. Red Hat customers use open source technologies to change not only their own organizations, but also entire industries and markets. Red Hat Innovators in the Open proudly showcases how our customers use enterprise open source solutions to solve their toughest business challenges. Want to share your story? [Learn more.](#)



About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.

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