



KORAMIS

# SECURITY WEAK POINTS ANALYSIS IN THE CLOUD

Only Cloud is able to store, analyze and centrally collect huge data amounts, which are available for companies. So, you could say that it is the heart of digital processes and products in the future tense. Especially when companies want to scale computer power and storage capacity quickly, easy and affordably at the same time. But sensitive data in a Public Cloud? – T-Systems changes people's opinion from a no go to a go! – Because high performing and reliable Public Cloud offers play an increasing role for the Cloud strategy of many companies. That is the reason why T-Systems offers Open Telekom Cloud from their data centers in Magdeburg and Bielefeld, which is suitable for critical business data, since CeBIT 2016. And not only the common version "Pay-as-you-go", but also simple and secure. That is why the IT security provider KORAMIS decided to use Open Telekom Cloud's virtual machines as infrastructure-as-a-service for analyzing weak points in software products and infrastructures in its customers lab scenarios.

## AT A GLANCE

- KORAMIS uses Open Telekom Cloud as basis for analyzing weak points of software products and complex industrial control infrastructures
- The most important decision factor for KORAMIS customers is the data protection and security under German law
- Open Stack technology as standard application of Public Clouds, even in hybrid application scenarios
- High scalability supports the competitiveness and progression of KORAMIS and its customers
- Prevention of personal investments on secure Big Data-able Cloud services through appropriate pay-as-you-go pricing models
- KORAMIS and its customers do not only benefit from simple and fast applications, but also from affordable provision costs (virtual machines with vCPU and 1 GB RAM/0.9 cent per hour incl. free operating system Open Linux; relational data base from 3 cent/h bookable; data base with 16 cores and 32 GB RAM for just under 1 Euro/h)
- KORAMIS can refer at any time on T-Systems advice and know-how



LIFE IS FOR SHARING.

## THE CUSTOMER: KORAMIS

For over 17 years, KORAMIS has been providing solutions for automation, process control systems and power system control technology. KORAMIS is today a well-known company among its customers, with international experience in specializing on Industrial Security, and has received several awards in the past.

## THE CHALLENGE

Due to the fact, that industrial IT infrastructures and systems (SCADA-Systems) have serious security weak points in their monitoring and controlling processes, and the resulting immense damage potential, KORAMIS is dedicating itself with its partners for the topic industrial IT security, since 2005. Based on this long-term experience, integrated products and services for individual security solutions with comprehensive know-how transfer were developed. These include the analysis of weak points of IT infrastructures and processes, the development of policies and holistic security concepts and also the implementation of concrete safeguards. However, the company's customers have also growing demands concerning fast results and the additional costs for their security checks. In fact, safety, speed and price are tough competitive factors for KORAMIS. This was a further reason, why the company was looking for an alternative to American Public Cloud services, which it was previously using for laboratory scenarios. Marco Di Filippo, Chief Operating Officer of KORAMIS, found the solution at CeBIT 2016, where T-Systems officially introduced the Open Telekom Cloud. Prior to this, 30 companies from start-ups to large groups had already tested T-Systems' Public Cloud offer in a friendly user phase for months and integrated their results into the refinement process and market launch of Open Telekom Cloud. Our Open Telekom Cloud does not only fulfill KORAMIS strict safety demands and clear functional requirements, in some cases it even exceeded them.

## THE SOLUTION

Open Telekom Cloud is based on the OpenStack architecture, operated from Germany's most modern, highly secure twin-core data center in Magdeburg and Bielefeld and is regulated by German data protection

laws. A relational database that is easy to deploy and extend, a Cloud container service that allows companies like KORAMIS to move entire application landscapes at the push of a button, and a high-performance option for processing large amounts of data are just some of the features that Open Telekom Cloud offers. There is neither a minimum purchase size nor a minimum contract term for the use of the resources. The customers of Open Telekom Cloud only pay, from 28 preconfigured machine types – so-called flavors – in a pay-as-you-go model.

## THE CUSTOMER BENEFITS

KORAMIS uses Open Telekom Cloud to test the infrastructure of its customers or new software products for security weak points, in laboratory simulations. The application scenarios range from home automation services for private households to the illustration of highly complex, complete traffic infrastructure systems. One example for this is the subway network of a local client, which KORAMIS has recently portrayed completely in the Open Telekom Cloud for research purposes. At peak days, KORAMIS needs 250 processors and 4 terabytes of data for its laboratory tests, which can be quickly booked or canceled at Telekom without any contractual obligation, at the push of a button. The company was recently commissioned, by a customer, to count 32.6 million password hashes back, this took the KORAMIS laboratory 14 days. Marco Di Filippo, Chief Operating Officer of the IT service provider, estimated that the processing would have lasted up to six years, without Open Telekom Cloud.

But the COO also defined two further "unbeatable benefits" for Open Telekom Cloud: "First of all, everything is made in Germany. This is definitely an important argument for our customers – keyword, data protection. On the other hand, the cost aspect of Open Telekom Cloud is very attractive. Even the processor, which calculates every variant of a claim, including discount staggering, makes it very transparent for us and our customers. In fact, with Open Telekom Cloud, we are now 18 percent cheaper than before with Amazon Web Services. This is significant".



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