# LEONTEQ
## Investing in container technology to support strategic business growth.

Swiss financial services company Leonteq harnesses container technology running on Lenovo-Nutanix hyperconverged infrastructure to deliver applications to platform partners in as little as 15 minutes.

Leonteq is a young, dynamic, award-winning financial services company specializing in structured investment products, long-term savings and retirement solutions. Headquartered in Zurich, Switzerland, the company operates in ten countries across Europe and Asia, serving over 50 markets and employing around 500 people.

Leonteq's proprietary technology platform makes it possible to instantly calculate complex structured financial products, specifically tailored to customers' preferred industries, risk levels and other relevant factors.

Leonteq has established a platform partner business where partners benefit from solutions across the entire structured products value chain from structuring to pricing, documentation, issuance, listing and settlement, risk management, market-making, lifecycle management, distribution, risk and regulatory reporting and accounting services.

Jasenko Jorgic, Head of Infrastructure at Leonteq, takes up the story: "We've established ourselves as an expert in the structured investment products space. We're now looking to capitalize on our reputation to expand our scope of cooperation and increase efficiency through further automation. We chose to launch a white labeling set-up in order to enable our partners to issue their own structured products and benefit from our services to grow overall volumes."

To support this new business model, Leonteq looked to standardize its software to run in Linux containers. Containers make sharing complete applications, along with all the dependencies, simple.

"Using containers to package up our applications would make it really easy to share our technology, and make it quicker and easier to onboard new partners," says Jasenko Jorgic.

"We considered several commercial offerings based on the Kubernetes container orchestration system, but we didn't like the idea of investing in a solution that we had no experience with. So, we decided to give the open-source version from the Cloud Native Computing Foundation a try."

Next on the to-do list? Find the right infrastructure to support the new container platform. For Leonteq, the choice was simple.

Jasenko Jorgic remarks: "We knew from the outset that we wanted to run our Kubernetes environments on the Lenovo ThinkAgile HX Series. We had been running our VDI [virtual desktop infrastructure] environment on Lenovo-Nutanix hyperconverged infrastructure for a while, and were really impressed with the flexibility, reliability and price-performance ratio of the Lenovo hardware."

Working with a team from Lenovo Professional Services, Leonteq implemented two Lenovo ThinkAgile HX3320 clusters, equipped with the latest Intel® Xeon® Scalable processors, as the basis for the Kubernetes platform, in addition to the four existing ThinkAgile HX Series clusters that underpin its VDI environment.

Powered by Nutanix Enterprise Cloud OS, the Lenovo ThinkAgile HX Series combines compute, storage, virtualization, networking and orchestration in a single stack, delivering an easy-to-manage hyperconverged infrastructure.

"One of the best things about the Nutanix software is that it aligns with lots of common cloud tools," notes Jasenko Jorgic. "For example, we make extensive use of Ansible, which we use to automate container build, deployment and management processes, and Terraform for infrastructure provisioning – both of which come built-in with Nutanix."
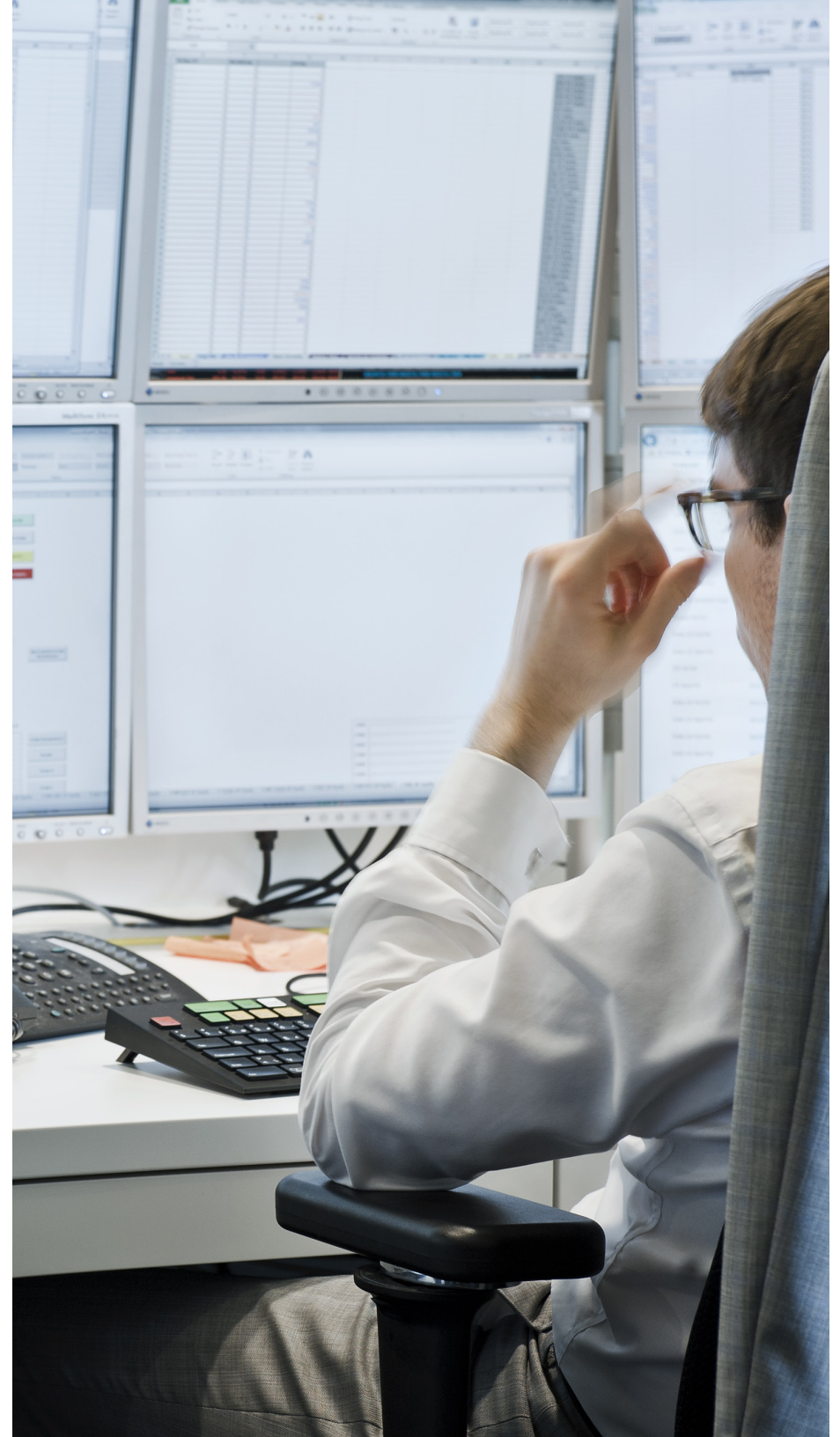
Leonteq has only started recently but is making fast progress with its container offering. Previously, it took an average of four weeks to set up new application environments for partners – a process that now takes just minutes.
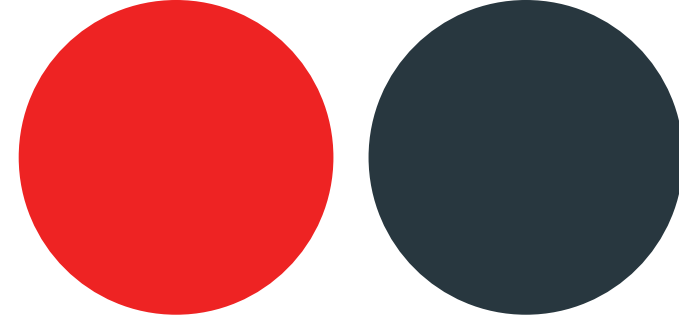
Jasenko Jorgic elaborates: "We used to have to request virtual compute and storage resources, set up a new environment, deploy our software, test and validate the solution. Now all we need to do is package up the application into a container, ship it to the partner, and they can run it on their own physical or cloud infrastructure. The whole process takes about 15 minutes in total. This means we can onboard new partners much faster than was feasible before. What's more, the development team is able to immediately deploy fixes and improvements, ensuring that our products and services always run smoothly."

Today, Lenovo ThinkAgile HX Series is a cornerstone of Leonteq's IT operations. Since migrating its VDI environment from a traditional three-tier infrastructure to the Lenovo-Nutanix solution, Leonteq has seen performance rise and costs fall.

"We used to use VMware on HPE servers and storage systems for VDI before moving to Citrix XenDesktop running on four Lenovo ThinkAgile HX Series clusters," recalls Jasenko Jorgic. "Thanks to lower licensing costs, a smaller physical footprint and more processing power, we were able to reduce our operating costs."

With the addition of new partners, Leonteq expects to add more nodes to the cluster underpinning its Kubernetes platform in the future.

Jasenko Jorgic concludes: "With our Lenovo-Nutanix hyperconverged infrastructure, we know that we can seamlessly scale to meet demand. We're confident that our platform partners will help us to achieve our growth ambitions and are excited to see what the future brings."

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– Jasenko Jorgic, Head of Infrastructure, Leonteq

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## Solution components

### Hardware
Lenovo ThinkAgile HX3320 Appliance with Intel® Xeon® Scalable processor family

### Software
Nutanix Enterprise Cloud OS
• Nutanix Acropolis, AHV, Prism
Lenovo XClarity
Ansible
Apache Kafka, Cassandra, CouchDB
Citrix XenDesktop
HashiCorp Terraform
Kubernetes

### Services
Lenovo Professional Services

*"We knew from the outset that we wanted to run our Kubernetes environments on the Lenovo ThinkAgile HX Series. We were really impressed with the flexibility, reliability and price-performance ratio of the Lenovo hardware."*
**—Jasenko Jorgic, Head of Infrastructure, Leonteq**

Determined to grow both volumes and revenues, Leonteq containerized its SaaS applications using Kubernetes platform running on Lenovo-Nutanix hyperconverged infrastructure to onboard new platform partners much faster, enabling them to use its services with ease.