Preparing for the future pays off.

How Aportes en Línea used a hyperconverged infrastructure, powered by Intel® Xeon® Platinum processors, to keep up with demand and keep up with the times, too.

Lenovo Infrastructure Solutions for The Data-Centered

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Background

Aportes en Línea plays an important role in Colombia's social security system: processing more than 40% of all payments.

Millions of employers, employees, and self-employed workers use their innovative IT services to make social security and private pension contributions online, and every single one of them wants the process to be fast, reliable, and easy.
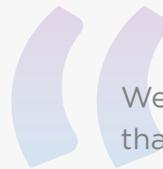
Efficiency is why people choose to pay online, after all.

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Challenge

Aportes en Línea typically processes around 70,000 payments a day. And during peak periods like social security payment deadlines, more than 5,000 people request access to the platform every minute. That translates to over 25,000 transactions per minute in their SQL database.

As online payments become the norm, transaction volumes are only expected to keep increasing. Aportes en Línea needed infrastructure that could keep up with demand today, and in the future — making their online payment processes smooth and reliable, no matter what.

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We support such a vital function for Colombian society that we cannot afford for our systems to go down, even for a moment.

Camilo Andrés Rodríguez Murillo
IT Infrastructure and Operations Manager, Aportes en Línea

Coming together for hyperconvergence

Aportes en Línea's previous infrastructure was made up of heterogeneous server and storage systems. They needed an infrastructure that could eliminate complexity and support a higher volume with security and efficiency.

But they needed more than just a solution. They needed a partner to help them prepare for the future — one that their customers could depend on, too. That's where Lenovo came in.

Simplifying for scalability

To keep operations running seamlessly, Lenovo replaced Aportes en Línea's existing three-tier infrastructure with a hyperconverged infrastructure (HCI) from Lenovo, running Intel® Xeon® Scalable processors with Nutanix cloud solutions.
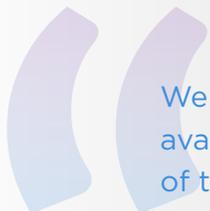
Aportes en Línea decided to implement a five-node Lenovo ThinkAgile HX3320 cluster at their primary data center, with a second three-node cluster at their disaster recovery (DR) site.

Deployed in an active/active configuration, data is replicated across the two sites in real time for instant failover in the event of an outage — all managed from a single point of control.

The Lenovo ThinkAgile HX Series Appliance comes pre-integrated with Nutanix Enterprise Cloud software, which pools compute and storage resources into a single virtual structure for easy manageability and scalability.

And for added flexibility, if they ever need to increase compute or storage capacity, all they have to do is add a new node to their cluster.

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We are extremely satisfied with the availability, reliability and performance of the Lenovo ThinkAgile HX solution. We know we can depend on Lenovo to keep our mission-critical SQL database and all our business applications running like clockwork 24 hours a day, 365 days a year. We also have added peace of mind around business continuity: if there were ever an issue at our main data center, everything would automatically fail over to our secondary site without any disruption to our services.

Camilo Andrés Rodríguez Murillo
IT Infrastructure and Operations Manager, Aportes en Línea

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Results

Since moving to the Lenovo ThinkAgile HX platform over two years ago, Aportes en Línea hasn't experienced any downtime at all.

Their hyperconverged infrastructure and disaster recovery systems have made it easier than ever to maintain stellar service and scale seamlessly. They've also taken full advantage of the Nutanix Prism tool to manage their virtualized resources and Lenovo XClarity to take care of their physical infrastructure — reducing the time spent on routine monitoring and maintenance tasks, too.

But best of all, millions of Colombian citizens — as well as Aportes en Línea, themselves — have been able to prepare for their futures without a problem.

✓ **0 downtime in over two years**

✓ **1 consolidated platform**

✓ **Millions of seamless transactions**

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We expect many more Colombians will opt for the convenience of online social security payments in the coming years. With our hyperconverged infrastructure from Lenovo and Nutanix, we are confident that we can meet that demand with ease.

aportes en línea

Camilo Andrés Rodríguez Murillo
IT Infrastructure and Operations Manager,
Aportes en Línea

What will you do with smarter cloud computing solutions?

See what the future could look like for your business when you go from data center, to Data-Centered with Lenovo smarter infrastructure solutions, powered by Intel® Xeon® Platinum processors.

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