

Government | Brazil

Turning over a new leaf with HCI

CREA-MG

Brazilian federal agency CREA-MG boosts agility, efficiency, and innovation in its services by modernizing its IT environment with a hyperconverged infrastructure from Lenovo and Nutanix.



Lenovo

NUTANIX

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Customer background

Who is CREA-MG?

The Regional Council of Engineering and Agronomy of the State of Minas Gerais (Portuguese: Conselho Regional de Engenharia e Agronomia de Minas Gerais, CREA-MG) in southeastern Brazil is an independent federal agency responsible for registering, inspecting, and supporting activities related to engineering, agronomy, and geosciences in the region. CREA-MG manages more than 258,000 professionals and 200,000 active companies in the sectors, in addition to its 550 employees and 75 inspectorates spread across the state.



2 The challenge

For years, CREA-MG had faced challenges with its outdated IT environment, struggling with constant bottlenecks and outages that impacted daily operations. The agency's IT team struggled to deal with these issues in a timely manner, as they had to open a ticket with the hardware vendor for every single update and maintenance task. This was slow and inefficient, and meant that CREA-MG struggled to keep the IT environment updated and optimized—impacting the performance of its business systems and digital services.

The situation became even more critical with the loss of the perpetual licenses for CREA-MG's server virtualization software. The agency was forced to downgrade its subscription as a result, directly impacting the availability of its services.

2 The challenge

For CREA-MG, this was the final straw. The agency set out to modernize its IT environment, conducting an in-depth preliminary technical study to determine the best solution for its needs.



“Previously, we were unable to properly monitor our cybersecurity systems due to the limitations of our IT platform. Now, we have greater visibility and can implement more tools, ensuring greater protection for our data and services.”

Gustavo Mendes Guimarães

Manager of the Technology Governance and Cybersecurity Division, CREA-MG

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The
solution

Modern, future-ready IT

The technical study led CREA-MG to select a hyperconverged infrastructure (HCI) solution based on [Lenovo ThinkAgile HX Series](#) and Nutanix Cloud Infrastructure. The HCI solution brings together compute, storage, and virtualization software into a single resource pool, managed through a single interface.

CREA-MG worked with Lenovo and systems integrator Altasnet to implement [Lenovo ThinkAgile HX650 V3 Integrated Systems](#) with 4th Gen Intel Xeon Scalable processors and all-NVMe storage, delivering high performance and over 15 TB of storage capacity.

Hardware

[Lenovo ThinkAgile HX650 V3 Integrated Systems](#)

4th Gen Intel Xeon Scalable processors

Software

Nutanix Cloud Infrastructure
(AOS Storage, AHV hypervisor, Flow Network Security, Disaster Recovery)

Services

[Lenovo Premier Support for Data Centers](#)

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“Our server portfolio is designed to provide the solid and reliable foundation that private enterprises and public agencies like CREA-MG need to scale their operations and securely integrate new technologies such as AI in the future. We are pleased to see how the robustness and performance of Lenovo servers, in synergy with hyperconverged technology from Nutanix, have enabled CREA-MG to transform its IT infrastructure.”

Erick Pascoalato

General Manager, Lenovo ISG Brazil

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“It was a great satisfaction to work with a more robust and scalable infrastructure that is fully integrated. This gives us more opportunities to think about larger projects, handling the increasing demand without any kind of impact on services.”

Cristiana Andrade

IT Manager, CREA-MG

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The results

CREA-MG is now in the final stages of migrating operational workloads over to the new Lenovo ThinkAgile HX Series infrastructure—and the HCI solution is already proving its worth.

With the unification of computing, storage, and networking in a software-defined architecture, CREA-MG has gained centralized visibility, faster response times, and significant reduction in complexity. This helps to eliminate outages and drive agility, efficiency, and innovation in its services.



Eliminates bottlenecks and outages



Reduces operational complexity and facilitates management



Boosts performance and cuts response times

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The results

“In just a short time, we’ve already seen a clear change,” confirms Marcelo Campanha, Infrastructure Sector Coordinator at CREA-MG. “The new infrastructure, which currently supports 66 virtual machines in addition to telephony, gives us the confidence to host new demands and projects that were previously unfeasible.”

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The results

Looking ahead

The HCI solution from Lenovo and Nutanix gives CREA-MG an easy-to-manage, resilient, and future-ready platform, enabling the agency to deliver important services with maximum efficiency.

Based on this success, CREA-MG is already planning further IT modernization projects, including the migration of external systems to the Lenovo ThinkAgile HX Series infrastructure; the implementation of new business intelligence systems to generate actionable insights, faster; domain updates to improve security and stability; and a migration to the latest version of Microsoft Windows Server. The agency is also exploring potential AI projects, leveraging the scalability of the HCI solution to support new technologies.



“The modernization of CREA-MG’s infrastructure shows in practice how technology can transform essential services for society. With the Nutanix platform combined with Lenovo servers and Altasnet’s expertise, the agency has achieved the stability, scalability, and security to sustain its current operations and create space for future innovation. This project is a model, as it eliminated bottlenecks and outages and created a solid foundation for strategic initiatives such as business intelligence and AI, which will have a direct impact on the efficiency and quality of service for thousands of professionals and companies in Minas Gerais.”

Leonel Oliveira

General Manager, Nutanix Brazil

Why Lenovo and Nutanix?

CREA-MG's internal technical study led the agency to HCI and Lenovo ThinkAgile HX Series. Lenovo and Nutanix are leaders in the HCI space, providing a fully validated and integrated solution based on enterprise Lenovo hardware and firmware, certified and preloaded with Nutanix Cloud Infrastructure software.

Another key differentiator was [Lenovo Premier Support for Data Centers](#), which offers centralized support for both hardware and software. Thanks to the single point of contact for ticket creation, Lenovo Premier Support for Data Centers helps to ensure specialized assistance and faster issue resolution.

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“The HCI solution from Lenovo and Nutanix gives CREA-MG a solid yet scalable foundation that will enable the agency to handle growing volumes of data, support new digital services, and advance securely towards hybrid cloud.”



Lissandro Santos

Account Manager, Altasnet

How can government agencies deliver services more efficiently?

By modernizing its IT with an HCI solution from Lenovo and Nutanix, CREA-MG boosts operational efficiency and performance.

[Explore Lenovo ThinkAgile Solutions](#)