Healthcare

Delivering world-class medical services

Xinyi Hospital of Traditional Chinese Medicine (XHTCM)

To facilitate a move to a new location, XHTCM built a brand-new data center and disaster recovery site from the ground up with Lenovo ThinkSystem servers, powered by Intel® Xeon® Scalable processors. Since the move, the hospital has achieved always-on availability for critical life-saving systems and applications.

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Intel® Xeon® Scalable processors

Lenovo

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Who is
Xinyi Hospital of Traditional Chinese Medicine?

Established in 1958, Xinyi Hospital of Traditional Chinese Medicine (XHTCM) is now a leading tertiary hospital that specializes in both Western and traditional Chinese medicine. Serving as a teaching hospital for Nanjing University of Chinese Medicine and the Medical College of Yangzhou University, XHTCM offers modern medical treatments, conducts scientific research, and provides rehabilitation, healthcare and prevention-oriented services to patients.

XHTCM recently moved its facilities to a new campus that covers over 110,000 square meters and provides 900 inpatient beds. As part of a broader reorganization of medical facilities in Jiangsu Province, XHTCM also merged with the former Railway Hospital.

新沂市中医医院
Xinyi Hospital of Traditional Chinese Medicine

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The
Challenge

From medical imaging to electronic health records, data plays an increasingly vital role in the delivery of healthcare services in China. As a result, data volumes at hospitals like XHTCM are skyrocketing. In turn, this is placing additional pressure on the core applications and underlying IT infrastructure supporting the smooth running of services and facilities.

Moving to a new campus provided XHTCM with an opportunity to get ahead of data growth by redesigning its existing IT infrastructure. With smart hospital services expected to generate even higher volumes of digital information in the years ahead, XHTCM decided to upgrade the servers and storage underpinning its core activities with infrastructure that could deliver high availability, rock-solid resiliency, and seamless scalability.

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"To ensure that we can provide patients with excellent care 24/7, it's critical that the IT infrastructure supporting our operations is robust, reliable, and can scale cost-effectively as data volumes grow."

Liu Xinran
Chief of the Information Department, Xinyi Traditional Chinese Medicine Hospital
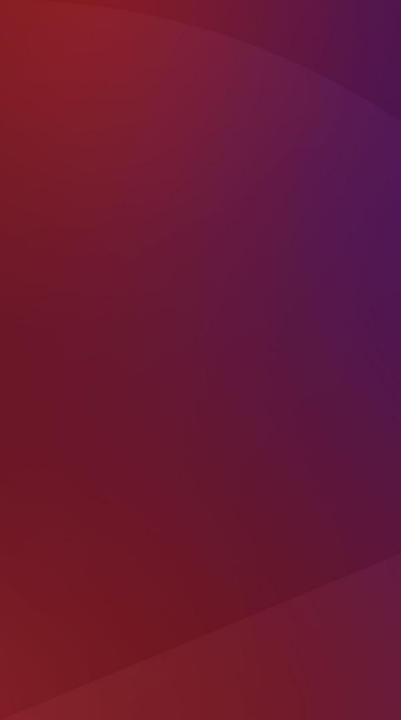
Building a brand-new private cloud

To enhance operational efficiency and simplify system management, XHTCM decided to build a new private cloud using Lenovo ThinkSystem SR950 and SR650 servers, powered by Intel® Xeon® Scalable processors.

Taking a software-defined approach enabled XHTCM to offer network, storage, compute, and security resources from the same physical infrastructure for added efficiency. Built-in accelerators in the Intel® Xeon® Scalable processors boost performance, ensuring that compute-intensive activities such as radiology services always run smoothly.

Hardware
Lenovo ThinkSystem SR950
Lenovo ThinkSystem SR650
Intel® Xeon® Scalable processors

To ensure that its core applications are always available, XHTCM built two data centers in separate locations in Jiangsu Province with active-active data replication between the two sites. With this configuration, the hospital can instantly fail over to the second data center if the other experiences unplanned downtime.

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"Lenovo hardware truly is best-in-class. We knew we could trust Lenovo solutions to deliver the reliability, availability, and security we need to support world-leading healthcare services all day, every day."

Liu Xinran
Chief of the Information Department, Xinyi Traditional Chinese Medicine Hospital
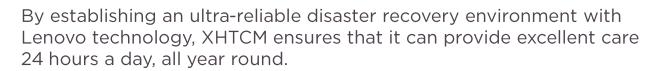
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Results

By moving its mission-critical network and applications to a private cloud based on Lenovo ThinkSystem servers, XHTCM is even better prepared to meet the demands of an increasingly digital future.

"Data is already a crucial part of healthcare services, but it will become even more important in the years ahead as IoT devices and other innovations become more widely used in patient treatments," reflects Liu Xinran, Chief of the Information Department of Xinyi Traditional Chinese Medicine Hospital. "With Lenovo servers underpinning our operations, we can scale our systems quickly and easily to meet evolving demands."

Supports growth with seamless scalability

Powers always-on services with 24/7 availability

Provides a solid foundation for future innovation

By establishing an ultra-reliable disaster recovery environment with Lenovo technology, XHTCM ensures that it can provide excellent care 24 hours a day, all year round.

"Unplanned downtime for the core applications and services that support our operations is something we simply cannot accept," comments Xinran. "Any disruption could have a serious impact on life-saving services. With Lenovo ThinkSystem servers powering our disaster recovery infrastructure, we can rest assured that if technical issues occur in one data center, we can keep our services running without any disruption."

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"With cutting-edge Lenovo and Intel technology, we've build a modern, resilient, and flexible private cloud capable of supporting sophisticated healthcare systems and applications—now and for many more years to come."

Liu Xinran
Chief of the Information Department, Xinyi Traditional Chinese Medicine Hospital

Why Lenovo?

With its focus on patient care rather than infrastructure management, XHTCM was keen to find a partner that could offer fast, responsive support during the implementation and beyond.

"Lenovo has a strong track record of helping hospitals and healthcare providers in China step up their systems and embrace digitalization," says Liu Xinran. "Knowing that Lenovo could provide local, in-person support if needed was a huge plus for us. If we encounter any issues, the team is always on hand to help and offer expert guidance."

XHTCM was also impressed with the real-time monitoring capabilities included with the Lenovo solutions. These enable hospital IT teams to identify potential issues before they arise and take a more proactive approach to system monitoring and maintenance—helping the hospital get maximum value from the Lenovo systems throughout their entire lifecycle.

How can you ensure that your infrastructure is future-ready?

Seamlessly scale infrastructure as data volumes grow with Lenovo and Intel® technology.

Powered by up to 4th Gen Intel® Xeon® Scalable processors

Explore Lenovo ThinkSystem

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