



滕州市妇幼保健院
滕州市儿童醫院
Tengzhou Maternal and Child Health Hospital
Tengzhou Children's Hospital

Tengzhou Maternal and Child Health Hospital delivers critical care to new mothers and infants with help from Lenovo

Lenovo™



Overview

To provide the best medical care to patients, Tengzhou Maternal and Child Health Hospital (MCHH) relies on its information systems running uninterrupted 24/7. When the hospital moved to a new, modern campus, it decided to replace its aging infrastructure with Intel® Xeon®-powered solutions from Lenovo. With Lenovo System x3850 X6 servers and Lenovo Converged HX5500 appliances with Nutanix software underpinning operations, Tengzhou MCHH gained the availability, reliability and performance needed to support vital healthcare services.

Tengzhou Maternal and Child Health Hospital (MCHH) is a teaching hospital that offers medical care and family planning services to residents of Tengzhou, China and the surrounding region. The hospital also supports scientific research.

Supporting healthcare services

As part of the Chinese government's New Rural Cooperative Medical System, which aims to close the gap in healthcare standards between urban and rural areas, Tengzhou MCHH is undergoing major regeneration and recently moved to a new campus.

To deliver the best possible level of care to patients, it is critical that staff have round-the-clock access to data stored in Tengzhou MCHH's Hospital Information System (HIS), Laboratory Information System (LIS), and Picture Archiving and Communication System (PACS).

During the move to its new campus, Tengzhou MCHH seized the opportunity to implement an improved IT infrastructure to support its mission-critical systems and ensure top patient care.

With the Lenovo solutions in place, staff have round-the-clock access to data, empowering them to deliver the best possible care services 24 hours a day, 7 days a week.



Modernizing IT

Looking to increase the reliability, flexibility and performance of its IT infrastructure, Tengzhou MCHH turned to Lenovo for support.

Working closely with the Lenovo team, Tengzhou MCHH implemented Lenovo System x3850 X6 servers as the foundation for its core HIS application landscape, running on Oracle Real Application Cluster database. Equipped with the Intel® Xeon® E7 processor family, the Lenovo servers deliver high levels of performance, giving IT operations a boost. Two Storwize V5000 storage systems, configured as an active-active pair, provide fully-automated failover. Tengzhou MCHH uses the Lenovo XClarity tool to manage the both the compute and storage infrastructure.

The hospital also implemented Lenovo Converged HX5500 appliances, powered by Nutanix Enterprise Cloud Platform software, to support its LIS, PACS and other business applications. The virtualized infrastructure enabled by Nutanix allowed multiple applications by Tengzhou MCHH to share one common compute and storage pool. This helped guarantee service levels were met, significantly eased the system management and lowered operating costs.

Delivering round-the-clock care

With the Lenovo solutions in place, Tengzhou MCHH gained an all-new IT infrastructure for its new campus. The hospital has seen a huge boost in the performance, availability and reliability of its most critical applications – ensuring staff have round-the-clock access to data, empowering them to deliver the best possible care services 24 hours a day, 7 days a week.

In addition, the impressive scalability of the Lenovo solutions means that Tengzhou MCHH is confident that the infrastructure can support operations now and in the future, even as the hospital continues to expand.

For more information

To learn more about Lenovo Data Center Systems solutions, contact your Lenovo Sales Representative or Lenovo Business Partner, or visit: www.lenovo.com/data-center

For more information about Tengzhou Maternal and Child Health Hospital, visit: www.tzsfybjy.com



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Solution components

Hardware

Lenovo Converged HX5500 Appliance with Intel® Xeon® E5 processor family
Lenovo System x3850 X6 with Intel Xeon E7 processor family
Storwize V5000

Software

Lenovo XClarity
Nutanix Enterprise Cloud Platform

- Nutanix Acropolis
- Nutanix Prism

Oracle Real Application Cluster