



FAKULTNÍ NEMOCNICE
OLOMOUC

University Hospital Olomouc supports round-the-clock care with Lenovo Flex System

Lenovo™



Overview

To ensure round-the-clock healthcare services, University Hospital Olomouc needed to put a rock-solid disaster recovery process in place. By deploying Lenovo Flex System solutions at both its primary and secondary data centers, the hospital is guaranteed that, in the event of disaster at one site, mission-critical applications fail over to the other – enabling hospital operations to continue running as normal.

University Hospital Olomouc (UHO) is one of the largest inpatient facilities in the Czech Republic. Part of a network of nine university hospitals managed directly by the Ministry of Health, UHO is the biggest healthcare facility in the Olomouc region and the sixth largest hospital in the country.

Keeping operations running 24/7

In addition to providing a comprehensive range of healthcare services, UHO is also a center of excellence in many fields of medicine. UHO plays a key role in scientific research and, as a teaching hospital, is responsible for training the doctors and nurses of the future. To support these activities, the hospital relies on the highest-quality technical equipment – from X-rays and MRI machines to IT equipment.

Teaming up with Lenovo

UHO selected Lenovo Flex System as one of its core IT infrastructure solutions after a public tender. The hospital chose to implement Lenovo Flex System due to its advanced technological features and attractive price.

UHO implemented one Lenovo Flex System Enterprise Chassis and a total of six dual-processor Lenovo Flex System x240 M5 compute nodes, powered

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—David Miklík,
Head of System Support,
University Hospital Olomouc



by Intel® Xeon® E5 processor family, with two converged switches at its primary data center. The Lenovo Flex System solution is connected to IBM Storwize V7000 storage nodes via Lenovo CN4054R and CN4093 Fiber Channel switches. The Lenovo solution offers the high performance needed to support Microsoft Hyper-V server virtualization.

David Miklík, Head of System Support at University Hospital Olomouc, remarks: “We have been using Lenovo Flex System for almost two years now, and the impressive redundancy of the solution protects us from the risk of individual server or storage node failure.

“To ensure that hospital operations can continue running smoothly even in the event of catastrophe, we decided to put a comprehensive disaster recovery solution in place. We deployed a second Lenovo Flex System with four x240 M5 compute nodes in our secondary data center.”

The two data centers are connected via fiber optic cables, which connect the Lenovo CN4054R and CN4093 switches at both locations using Fiber Channel over Ethernet (FCoE) technology. UHO's application servers and database cluster are installed at the primary data center, and the secondary data center acts as the failover site in the event of disaster.

Rock-solid reliability

With the Lenovo Flex System solution in place across both data centers, UHO has significantly boosted its disaster recovery processes, enabling the hospital to continue caring for patients no matter what.

David Miklík concludes: “The scalability of the Lenovo solution enables us to adapt to changing demands on our IT infrastructure. Not only is the Lenovo solution extremely reliable and easy to manage, the energy requirements are much lower than our previous servers. We have therefore been able to significantly reduce IT operating costs, which is the cherry on the cake.”

For more information

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

For more information about University Hospital Olomouc, visit: www.fnol.cz



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Solution components

Hardware

Lenovo Flex System x240 M5
compute nodes with Intel® Xeon®
E5 processor family
Lenovo Flex System CN4054R 10Gb
Virtual Fabric Adapter
Lenovo Flex System Fabric CN4093
10Gb Converged Scalable Switch
IBM Storwize V7000 storage nodes

Software

Microsoft Hyper-V
Microsoft SQL Server