

Manufacturing | China

Growth made simple with a scalable SDI

Shandong Haihua Group Co., Ltd.

Growing fast, Shandong Haihua Group deployed software-defined infrastructure (SDI) powered by Lenovo ThinkSystem server and storage technology in order to reduce the risk of production downtime.



Lenovo

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Customer background

1 Who is Shandong Haihua Group?

Established in 1995, Shandong Haihua Group Co., Ltd. is a state-owned enterprise group located in Weifang City, Shandong Province. With 21 subsidiaries and over 9,000 employees, Shandong Haihua Group is a nationally significant player in the production and sale of salt chemicals such as soda ash, bromine, and calcium chloride. While the group pursues excellence in chemicals manufacturing, it also seeks to expand its offerings within the petroleum and energy sectors.

2 The challenge

Shandong Haihua Group's latest five-year plan targets transformation, innovation, and expansion into new markets. At the same time, the natural growth of the company meant that its volume of unstructured data was expanding faster than ever before. This was putting pressure on the legacy infrastructure that underpinned critical business systems such as production management, supply chain management, and financial management. Dwindling performance was dampening the productivity of business users and even risked impacting production operations.

To remedy these issues and lay a strong foundation for future expansion, Shandong Haihua Group looked to modernize its technology landscape.

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“In the past, we had issues with production stalling due to IT system failures. It caused a lot of stress for employees and limited our growth. To meet the objectives set out in the five-year plan, **we knew we needed to upgrade our infrastructure.**”

Pang Tao

Deputy Director of Information Center, Shandong Haihua Group Co., Ltd.

3 The solution

Robust, reliable technology

Shandong Haihua Group teamed up with Lenovo to refresh its technology landscape. The group deployed a software-defined infrastructure (SDI) solution based on five Lenovo ThinkSystem SR660 V2 servers and a Lenovo ThinkSystem DG5000 all-flash storage array, virtualized with VMware. This SDI provides the high performance needed to support the group's core systems.

In addition, Shandong Haihua Group deployed a Lenovo ThinkSystem DM3000H hybrid storage array with 500 TB capacity for less critical non-production data and Veeam backups.

Hardware

Lenovo ThinkSystem SR660 V2
Lenovo ThinkSystem DG5000
Lenovo ThinkSystem DM3000H
Unified Hybrid Storage Array

Software

Veeam Data Platform

Services

Lenovo Professional Services

3 The solution

Seamless scalability, stellar support

Following the initial success of the five-node cluster, Shandong Haihua Group expanded its environment to a 10-node cluster, which meets the needs of high-performance applications and core databases and runs over 200 virtual machines.

With the SDI solution powering mission-critical systems, Shandong Haihua Group engaged Lenovo Professional Services to support the deployment and migration. “We felt that we were in safe hands with Lenovo,” says Pang Tao, Deputy Director of Information Center at Shandong Haihua Group. “The Lenovo team helped us to get everything up and running without adding work and stress on the IT department.”

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“It was vital that to **ensure business continuity** as we migrated to the new platform, and the Lenovo Professional Services team was critical in delivering that.”

Pang Tao

Deputy Director of Information Center, Shandong Haihua Group Co., Ltd.

4 The results

With the Lenovo SDI solution, Shandong Haihua Group has gained a strong, scalable foundation to support future expansion.

By upgrading to powerful Lenovo ThinkSystem technology, the group has increased performance and reduced the risk of downtime for its mission-critical systems. At the same time, the high-capacity ThinkSystem DM3000H array reduces the cost of storing unstructured and backup data.



Supports business growth with easily scalable SDI



Improves performance and reduces the risk of downtime for mission-critical systems



Cuts costs of unstructured and backup data storage

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“Lenovo is a reliable and trustworthy partner, and **the SDI solution is perfectly tailored to our needs.** We now have the strong technical backbone that we need to put our five-year growth plan into action.”

Pang Tao

Deputy Director of Information Center, Shandong Haihua Group Co., Ltd.

Why Lenovo?

For Shandong Haihua Group, Lenovo offered the full package: strong brand reputation, rich industry experience, and high-quality hardware. What's more, the group has full confidence that it can rely on Lenovo's support team in the unlikely event that it runs into any problems with its SDI solution.



How can you make your infrastructure expansion-ready?

Working with Lenovo, Shandong Haihua Group future-proofed its IT with a scalable SDI solution.

[Explore Lenovo ThinkSystem Solutions](#)