Hisense accelerates system implementation by 3-5 times

Hisense

Headquartered in Qingdao, China, Hisense Group is a fast-growing business that operates in multimedia, home appliances, and intelligent IT systems. It recently began the process of transforming from a traditional home appliance and electronics manufacturer to a broader high-tech operator. Identifying the need to improve business delivery, resource utilization and development, Hisense adopted cloud computing as a key group strategy and started building a shared architecture. It implemented a platform based on Red Hat OpenShift after benchmarking with industry leaders.

Qingdao, China ●

Headquarters

Electronics

More than **80,000** employees and **54** offices

Benefits

▶ Accelerated system implementation time by 3-5 times

▶ Increased resource utilization by over 60% while cutting procurement costs

▶ Reduced manual environment setup times from 1-3 days to around 1 hour

"With Red Hat products and services, we were able to build a Kubernetes-powered cloud platform that scales when we need it to."

—

Qu Dong
Minister of Hisense Infrastructure and
Cloud Service Management Department

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Replacing legacy systems to reduce costs, deliver visibility and growth

Hisense is a fast-growing business that operates in multimedia, home appliances, and intelligent IT systems that is transitioning into a broader high-tech operator. Hisense's traditional IT configuration was bulky and slowed them down. And, they were incurring high IT costs, made worse by numerous maintenance and licensing issues. This contributed to a slower output delivery, low resource utilization and inefficient development.

"We needed to improve our visibility into several business-critical processes and applications, with the primary aims of improving business delivery, resource utilization, reducing hardware procurement costs, and speeding up development of business apps," said Qu Dong, Minister of Hisense Infrastructure and Cloud Service Management Department.

Meets multiple criteria with a Red Hat OpenShift-based system

By using products such as Red Hat OpenShift, the Red Hat Application Services portfolio and Red Hat Consulting, Hisense has built a containers and Kubernetes-powered cloud platform that runs software components such as data ingestion and analytics tools, databases, and DevOps tools to speed up new service launches, support innovation, and enhance customer experience. A key objective here was to meet the requirements of business consultants, development, testing, operation and maintenance personnel, and managers to facilitate system construction, operation, maintenance, and visibility into key processes.

The container application platform that Hisense implemented is built on Red Hat OpenShift, which is based on open source Kubernetes as its core. During implementation, the project team was particularly impressed by the rapid innovation and high levels of iteration capability from the open source community. "With Red Hat products and services, we were able to build a Kubernetes-powered cloud platform that scales when we need it to. We can now accelerate the secure deployment and management of our industrial workloads to enhance overall business agility," said Qu Dong.

Red Hat Consulting ensured that the project implementation followed the correct plan in terms of system architecture design, project implementation and launch process. It also helped solve implementation problems quickly, ensuring that the project met critical quality and timeframe requirements and launched successfully.

Accelerating processes and increasing utilization to deliver key benefits

Accelerated application delivery and system implementation by 3-5 times

By enabling Hisense to build new, agile, cloud-native applications, the system implementation cycle has been accelerated by 3–5 times.

Increased resource utilization by over 60% while cutting procurement costs

The move to a cloud-based platform has significantly reduced Hisense's reliance on bulky, inefficient hardware resources. This has led to a 60% increase in resource utilization and a sharp reduction in hardware procurement costs.

Reduced manual environment setup times from 1-3 days to around 1 hour

Automated system deployment has led to a substantial reduction in environment setup times. These processes, which used to take between one and three days, are now typically completed in around an hour.

> "We can now accelerate the secure deployment and management of our industrial workloads to enhance overall business agility."

Qu Dong
Minister of Hisense Infrastructure and
Cloud Service Management Department,
Hisense Group

Enhancing the customer experience to strengthen wider competitiveness

As well as helping Hisense to reduce resource waste and increase utilization, the PaaS has enabled the business to speed up new service launches, support 'trial-and-error' innovation, and enhance the wider customer experience. All these factors ultimately strengthen Hisense's overall competitiveness.

Implementing a PaaS platform has delivered significant advantages over traditional virtualization and IaaS, for the application development and operation and maintenance teams in each business unit. More Hisense departments are looking to adopt PaaS solutions as a result.

About Hisense Group

Hisense Group is a Chinese multinational white goods and electronics manufacturer headquartered in Qingdao, Shandong Province, China. The business was launched as a manufacturer of radios in 1969, and has since become a world leader in multimedia, home appliances, and intelligent IT systems. It recently began the process of transitioning to become a broader high-tech operator.

About Red Hat Innovators in the Open

Innovation is the core of open source. Red Hat customers use open source technologies to change not only their own organizations, but also entire industries and markets. Red Hat Innovators in the Open proudly showcases how our customers use enterprise open source solutions to solve their toughest business challenges. Want to share your story? Learn more.

About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. A trusted adviser to the Fortune 500, Red Hat provides award-winning support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organizations grow, transform, and prepare for the digital future.

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