

**Objective**

Enable rapid, global growth for online payment services, with zero system downtime

**Approach**

Reviewed cloud solutions from a wide range of providers

**IT Matters**

- Creates a flexible and scalable IT infrastructure, enhancing overall operational efficiency and improving security of core products
- Improves the efficiency of system developers by up to 60 percent, while software development is 2x faster

**Business Matters**

- Extends cloud services platform and hosting of full payment services to customers, reducing time and costs
- Reduces risk of downtime with better integration of IT resources during peak periods
- Monitors various stages of code development, providing insight into more efficient test code and troubleshooting

# Zhong Hui Bao adopts OpenStack to secure platform for global growth

Payment services provider reduces system downtime with HPE Helion OpenStack



After deploying HPE Helion OpenStack and HPE Helion Development Platform, Zhong Hui Bao Network Technology Co., Ltd. has effectively resolved the risk of system downtime caused by high-volume transactions. It also enabled the integration of technological resources within the company at a reasonable pace, providing a safer and more convenient payment platform.

**Creating a platform to support global growth**

Zhong Hui Bao Network Technology is one of China's largest third-party payment companies. It supports international credit cards, online banking payments and offline point-of-sales business, providing financial-grade payment experience for global enterprises and individual users. The business has thousands of customers in China, its domestic market, and has ambitious plans to develop its international operations.

“It is hard to find another vendor capable of offering such a comprehensive platform and relevant services. We consider Hewlett Packard Enterprise to be the world’s leading supplier when it comes to this technology.”

— Cheng Long, chief information officer, Zhong Hui Bao Network Technology Co., Ltd.

Opening overseas data centers using conventional IT operating systems, physical servers and simple virtualization technology was not seen as sustainable - financially or operationally. Due to Zhong Hui Bao’s high transaction volume, the company could not risk system downtime, particularly during its customers’ peak trading periods. Any system downtime incurs huge losses for Zhong Hui Bao.

“A payment services company is the bridge for online payment and settlement, our primary concern is to ensure business stability and cardholder data security,” says Cheng Long, chief information officer, Zhong Hui Bao Network Technology. “Hence, we focus very much on the flexibility of scheduling system resources, improvement of the operation efficiency and maintenance failures, enhancing code security and Web protection. And our top priority is on how to support rapid business growth we have during peak periods and avoid resource bottlenecks and high failure rates.”

To accommodate rapid growth and allow the business to move quickly on international opportunities, it wanted a more flexible IT infrastructure with robust disaster recovery. Zhong Hui Bao wanted to improve its core technology and, where possible, drive automation. It wanted to not only build a cloud infrastructure but deploy applications on it, and for all resources to be used effectively during peak periods. Operating in the financial services sector, ensuring data security would be paramount.

Zhong Hui Bao aimed to introduce a new cloud-based solution. The company’s objective was to leverage cloud capabilities and automation to enhance the service standard in the company’s third-party payment transactions. This would enable Zhong Hui Bao to adapt to the rapid development of overseas markets, seize new opportunities and overcome any challenges on its way to success.

### **An early adopter**

After testing and assessing a variety of cloud solutions, Zhong Hui Bao opted for HPE Helion OpenStack and HPE Helion Development Platform. “It is hard to find another vendor capable of offering such a comprehensive platform and relevant services,” says Cheng Long. “We consider Hewlett Packard Enterprise to be the world’s leading supplier when it comes to this technology.”

Zhong Hui Bao decided to fully deploy the HPE Helion OpenStack private cloud solution with HPE Helion Development Platform. The HPE Helion solution aligns with Zhong Hui Bao’s growth strategy, and enables the business to undertake further development and integration of services. HPE also provided technical and personnel support throughout the project.

To begin, HPE’s partner WinSoft Inc. provided system integration services, and utilized HPE Helion OpenStack to construct a comprehensive development platform system. In phase two, WinSoft Inc. implemented code development, system testing, system online and operating system monitoring.

### **No downtime, greater system efficiency**

Helion OpenStack delivers enterprise grade security, helping secure Zhong Hui Bao’s online business. Based on Community OpenStack, Helion OpenStack enhances its approach to security by hardening dynamic infrastructure, providing proactive monitoring, detection and response.

With the new system online, Zhong Hui Bao has effectively resolved system downtime issues. Its payment services are now more stable and rapid. When the business department sends a request, IT is able to respond faster, greatly improving Zhong Hui Bao’s core payment service.

To test the system, technicians perform a simple analysis with the help of the compliance audit reports generated by the cloud platform. This has improved the efficiency of system developers by up to 60 percent; as a consequence, software development times are now twice as fast as previous. The number of operators required has been cut from ten to two. Rather than system maintenance, the work of Zhong Hui Bao’s technical staff has shifted to architectural design and application deployment in the cloud infrastructure.

In addition, if a customer needs to build its own platform, it can utilize the same cloud platform. This improves Zhong Hui Bao’s customer service outlook, and widens its range of cooperation models.

## Customer at a glance

### HPE Helion Cloud Solution

- HPE Helion Private Cloud

### Software

- HPE Helion OpenStack
- HPE Helion Development Platform

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“Hewlett Packard Enterprise is a remarkable company. It is always able to provide professional solutions that meet the needs of a global business.”

— Cheng Long, chief information officer, Zhong Hui Bao Network Technology Co., Ltd.

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### The headroom to respond quickly

As an early adopter in the financial services industry, Zhong Hui Bao creates a competitive edge in the third-party overseas payment transaction business. With a reduced need for investment in personnel, the organizational structure has improved. Zhong Hui Bao can now integrate its IT resources within the enterprise at a more reasonable pace.

“By using the HPE Helion OpenStack, we can schedule our software and hardware resource better to deal with the growing peak period business traffic and the appropriate application development needs,” says Cheng Long. “A wide range of automated operation and maintenance tools helped us to quickly locate problems and also provided us with automated solutions templates. At the same time, HPE Helion Development Platform helps us to monitor the various stages of code development, and moving to this more modernized cloud native app development has given us powerful insight into more efficient test code and troubleshooting.” With software development times halved, the business is faster to deploy new services.

The HPE Helion solution provides Zhong Hui Bao with an operational and maintenance management system that is both automated and standardized. The depth of the systematic monitoring and compliance audits improves Zhong Hui Bao’s capacity to deal with future challenges.

Most importantly, amid the fast-growing overseas markets, Zhong Hui Bao can quickly seize new opportunities, providing improved services to more customers across a broader market.

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