

**Objective**

Build a community cloud platform to provide value-added IT services for tenants within an industrial park

Approach

Conducted a standard RFP, followed by site visits from possible solution providers with critical analysis of products

IT Matters

- Established industry-oriented templates
- Created an open, secure platform that can deliver services quickly
- Implemented hybrid delivery

Business Matters

- Integrated IT applications with industrialization to promote the upgrade of industry and urban development
- Grouped industries together to stimulate the regional economy
- Built an ecosystem to improve industrial environment
- Combined resources to form a community network for industrial services

Chongqing serves regional businesses through community cloud platform

HPE enables the build of community cloud platform to promote regional development



The Chongqing Liangjiang International Cloud Computing Industrial Park region of China has created a long term strategy to attract and retain IT businesses. Central to this is a community cloud platform for tenants at the Chongqing Liangjiang International Cloud Computing Industrial Park. HPE creates an open, flexible solution, delivering a cloud ecosystem for business.

Challenge**Creating a viable business plan for cloud**

Chongqing Liangjiang International Cloud Computing Industrial Park is a major center of economic activity in China, with a strong focus on the IT sector. The local municipality has succeeded in attracting Hewlett Packard Enterprise, Acer, ASUS, Toshiba and Cisco to establish production facilities in the region, along with the six large OEM companies Foxconn, Inventec, Quanta, Compal, Wistron and Pegatron. In addition, more than 800 components manufacturers also have a presence in Chongqing Liangjiang International Cloud Computing Industrial Park.

Hardware is only one part of the story. Chongqing Liangjiang International Cloud Computing Industrial Park has built an avant-garde data center with the computing power of a million servers as part of its Cloud Plan.

“Hewlett Packard Enterprise will continue to help Chongqing Liangjiang International Cloud Computing Industrial Park build an innovative industrial community cloud. This platform is centered on a technology core of big data, cloud computing, information security and mobile internet. Together this promotes industrial development in the region.”

– Zhao Gang, chief engineer, Chongqing Economic and Information Technology Commission

The aim is to use this facility to attract key supply chain companies involved in software development, international e-commerce, billing centers and value-added application services based on cloud computing and big data. The focus will be on developing smart hardware, IT finance and big data services.

The data center has been built in an 11.4 square kilometer area within Chongqing Liangjiang International Cloud Computing Industrial Park. Well-known enterprises such as Pacnet, China Unicom, China Telecom, China Mobile and Tencent are already based at the park. It is predicted that there will be 100,000 servers operating online. After the foundation has been fully completed, it will include around 800,000 servers. It is expected this figure could grow to one million by 2020.

According to Chief Engineer Zhao Gang of the Chongqing Economic and Information Technology Commission, Chongqing Liangjiang International Cloud Computing Industrial Park's cloud opportunity has two strands. At the data center front end, Chongqing Municipality built national level points that are directly connected to the internet backbone. At the data application service end, Platform as a Service (PaaS) and Infrastructure as a Service (IaaS) companies such as NEC, ASUS, Leiqiang Technology and Microsoft® will rely on the cloud to build application service platforms in Chongqing Liangjiang International Cloud Computing Industrial Park.

Solution

Combining the features of private and public

An industrial community cloud is a form of hybrid cloud, combining the features of public and private clouds. HPE is currently in the process of deploying this kind of hybrid cloud solution in several Chinese industrial parks.

The HPE community cloud platform recommended for the construction of the Chongqing Liangjiang International Cloud Computing Industrial Park community cloud breaks through the limitations of public and private clouds. For companies based at the park, this means they will be able to retain their existing cloud computing solutions or integrate with Helion. Either way, regardless of what the situation of a company's cloud computing is or what stage it is at, it can be developed rapidly using HPE Cloud.

The Helion cloud platform is based on open source OpenStack technology and its distinctive features are its openness, security and agility. Chongqing Liangjiang International Cloud Computing Industrial Park's industrial community cloud users can make full use of the advantages of the HPE Helion cloud computing solutions, such as highly automated management and reduced cloud thresholds.

Case study

Chongqing Liangjiang
International Cloud
Computing Industrial Park

Industry

Public sector/government



Chongqing Liangjiang International Cloud Computing Industrial Park already operates a sizeable hardware environment. The construction of the main infrastructure (including power, communications and the data center) has been completed and a long-term development plan has been formulated. The current focus has shifted to the construction of a soft platform. Chongqing Municipality hopes that the three levels of IaaS, PaaS and Software as a Service (SaaS) will provide services for corporate clients. It wants to use the cloud platform to serve good local Chongqing Liangjiang International Cloud Computing Industrial Park clients, before expanding to serving clients nationwide. It will then use cloud computing to help traditional businesses restructure and upgrade.

Yuan Cheng, chairman of the board at Chongqing Cloud Computing Investment Operations Co., Ltd., explains: "We hope that by focusing on building an industrial community cloud, we will provide value-added IT services for companies within the park. We must focus on the construction of an avant-garde technology platform that includes multiple aspects, such as cloud computing, big data, information security and mobile internet."

Chongqing Municipality will have the full support of HPE during the process of developing its cloud computing and big data industries.

Benefit

A platform for rapid business innovation

HPE Helion qualities have allowed Chongqing Liangjiang International Cloud Computing Industrial Park to welcome a variety of businesses. It has turned the park into an accelerator for development in Chongqing Liangjiang International Cloud Computing Industrial Park. A customized solution based on HPE Helion has helped the Liangjiang industrial community's cloud construction from four perspectives.

- The construction of a cloud platform must also have industry characteristics. For example, the finance and automotive industries are the two key development industries in Chongqing Liangjiang International Cloud Computing Industrial Park. In order to support the client development of these industries, the industrial community cloud platform must have industry-oriented templates.
- The establishment of an operational ecosystem. Cloud computing is about delivering services to customers. Therefore, the industrial community cloud must be an open, secure platform that can deliver services quickly. Clients within the community can have their own cloud platform space within the new community cloud platform.

Case study

Chongqing Liangjiang
International Cloud
Computing Industrial Park

Industry

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Customer at a glance

HPE services

- An integrated HPE product portfolio which includes cloud computing, big data, mobile internet and information security technology
- HPE Community Cloud Platform

“We hope that by focusing on building an industrial community cloud, we will provide value-added IT services for companies within the park. Starting from the point of view of building a cloud computing environment, we must focus on the construction of avant-garde technology platform.”

– Yuan Cheng, chairman, Chongqing Cloud Computing Investment Operations Co., Ltd.

- The integration of technology. The HPE consulting team took Chongqing Liangjiang International Cloud Computing Industrial Park’s overall strategic cloud objectives into account, as well as factors including big data and mobile internet.
- Hybrid delivery. Many clients may already have their own private clouds or make partial use of public cloud services. How will these clients be integrated into Liangjiang New Area’s industrial community cloud? This will require the industrial community cloud to be more adaptable and able to implement hybrid delivery, which will allow Liangjiang to attract investment much more easily in the future.

Regarding the requirements of the Chongqing Liangjiang International Cloud Computing Industrial Park project, Wei Dong, HPE’s China region general manager and industry strategy and solutions manager says: “Using its integrated product portfolio, HPE will create an open ecosystem with a general management structure. This will provide an open, secure and agile IT environment that keeps close to industry practice for the companies based at the park, helping them to improve their overall operational efficiency. HPE’s industrial community cloud solution will also help Chongqing Liangjiang International Cloud Computing Industrial Park to provide better services for local businesses and have the effect of forming industrial clusters.”

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