

CloudStack Stability and Reliability Enables KDDI to Deliver 99.999% Uptime to Their Enterprise Customers





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Whilst agility and speed of service are key factors in choosing a Cloud management platform, it is becoming apparent that reliability of service is proving to be the vital differentiator for many service providers.

KDDI started operations in 1953 and is now a Fortune Global 500 company. With 10,000+ employees and US\$48 billion in annual revenue they are one of Asia's largest telecommunications providers. KDDI has developed Japan's largest public cloud to deliver cloud services across Asia, Europe, and the US.

KDDI's Cloud environment – KDDI Cloud Platform Service (KCPS) - operates in Japan with thousands of physical hosts delivering a service with 99.999% availability.

Carrier Grade Cloud Platform

KCPS was launched in July 2012 and is built on Apache CloudStack utilizing the KVM and VMware hypervisors. This carrier grade cloud platform provides the flexibility to migrate a variety of business applications making it possible to meet exact needs.

KCPS has a one-stop contracting service that enables customers to quickly construct systems in conjunction with their global expansion plans, whilst maintaining high degrees of security and availability.

Storage for KCPS is provided on a variety of propriety hardware platforms.



Agility and Reliability



Masashi Nakamura
Group Leader, Platform
Technology Department,
KDDI Corporation

“We were already a leading provider of mobile and network services when we launched KCPS. We wanted to provide a cloud platform that serviced both existing customers and attracted new ones.

We didn't want to compete with the hyperclouds like AWS and Azure, but wanted to provide an agile, secure and stable platform that could be tailored to meet the needs and demanding requirements of our enterprise customers. KDDI's mission is “to connect” everything and KCPS was designed with that aim in mind.

As part of our due diligence process we evaluated a number of products on which we could construct KCPS, but eventually chose CloudStack. The biggest advantages of using CloudStack was its inherent stability, flexibility and the fact that it is used widely operating network services. In addition, it can manage multiple hypervisors -we use KVM and VMware- and is a much more mature product than many of its competitors.



Enabling Services with High Availability

KDDI is using KCPS to deliver a broad range of customer services including: IaaS, Disaster Recovery (DRaaS), Operating System provision, security operations and datacenter connection services.



The 99.999% uptime we offer is a vital factor in providing these services and is why our customers choose us.

Hiroyuki Kijima

Product Manager for Private Cloud, KDDI Corporation

This robustness and reliability is what attracts enterprise customers to operate mission-critical workloads on it.

Hiroyuki Kijima continued *“CloudStack is very stable and has a simple to use interface making it quick for our customers to get up to speed on. In addition, its API offers quick integration with existing customer networks and it is customisable, meaning it easy to add additional services. Its flexible inter-cluster migration, means we can easily migrate a customer’s resources when onboarding them.”*

“Our mission is to be close to customers and hear their voice. We do not focus on products, but on customer issues to solve.”, continued Masashi Nakamura. *“And CloudStack has proven to give KDDI enough agility to develop custom solutions, matching fully the customer requirements.”*



Part of what we offer is a Disaster Recovery function. With this, the customer can easily and automatically replicate a snapshot or backup between different sites anywhere across the Japan, making it ideal for DR plans.

Shin Murasaki, Technical Lead, KDDI Corporation

Mature Open-Source Platform

KDDI have strategically partnered with ShapeBlue for a number of years. ShapeBlue are the largest independent integrator of CloudStack technologies globally and are specialists in the design and implementation of IaaS cloud infrastructures for both private and public cloud implementations.

"We were introduced to ShapeBlue by one of our partners," said Masashi Nakamura. "They are very reliable and flexible in their approach to what we need. Their fast response to our problems has made us very happy with the level of support we receive. And of course, as they are a leader in the CloudStack community they help to keep it active and the product keep developing."

"Using Open-source software for such a mission critical operation may look risky, but it is quite the opposite, The maturity, stability, scalability and reliability of CloudStack has proved second to none and it has the added bonus of providing real cost savings, something that simply would not be possible with a proprietary platform."

"I would happily recommend both CloudStack and ShapeBlue to any organisation looking to build either a public or private cloud infrastructure."

KDDI have an active roadmap and are currently planning a range of edge and 5G services.



About KDDI Corporation

KDDI Corporation is Japan's global telecommunications pioneer and a Global Fortune 500 company providing their international customer base with data centers, networks, content delivery, system integration, and more around the world. Their industry-leading Telehouse data center provides colocation at over 40 sites in 23 cities in 12 countries/territories including London, New York, Frankfurt and Shanghai as well as more recently developing areas such as Moscow and Hanoi.

Leveraging their strengths as a telecom provider, KDDI Corporation combines their telecom network and top-quality data centers (Tier 3 and Tier 4 level) to provide a stress-free IT and telecom environment to their customers. With more than a half-century worth of experience, they have been a leader in the telecom and cloud services in Asia Pacific region.



www.kddi.com

About ShapeBlue

ShapeBlue is the largest independent integrator of CloudStack technologies globally and are specialists in the design and implementation of IaaS cloud infrastructures for both private and public cloud implementations. We combine 100's of person-years of experience in designing and building complex network, storage and compute infrastructures with globally leading skills in Apache CloudStack.

Our services include Consulting, Integration, training and infrastructure support. Our technical teams are all active contributors to the Apache CloudStack project and a good percentage of our team are also project committers. We have helped design and build some of the world's largest cloud infrastructures.



www.shapeblue.com | info@shapeblue.com

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