

## Success Story of Cloud Solution

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<b><u>Cloud Solution Type</u></b> IaaS, VM
<b><u>Case Study Title</u></b> Enable a mobile application to handle 500K concurrent connections at ease
<b><u>Basic Information</u></b> Company Name: Fengqi.Asia ( operated by <b>Cluster Technology Limited</b> ) Client Name: A well-known mobile application Date: April-2012 Web Site: N/A
<b><u>Introduction</u></b> A mobile application leveraged Fengqi.Asia Public Cloud and replaced the connection layer with one 1GB Node.js SmartMachine which helped the application handle over 500K concurrent connections easily. More important, Fengqi.Asia provides unmetered bandwidth which gives the application a better planning on infrastructure budget.
<b><u>Experience Sharing</u></b> Before operating with Fengqi.Asia Cloud, the mobile application required a cluster of 20-30 instances on another public cloud to support 200K-300K concurrent connections. This complicated cluster architecture resulted in high cost of development and administration.  Fengqi.Asia Cloud helped the client replace the connection layer with a single Node.js-optimized cloud instance. With the technical support of Fengqi.Asia engineers, this modification, including all the related code changes and testing, only took 1 engineer-week to complete.  Benchmark results showed that only ONE 1GB RAM Node.js SmartMachine can handle over 500K concurrent connections and this new architecture has significantly reduced the number of instances the client required as well as the associating administration and operation cost. More important, Fengqi.Asia offers cloud machines with unmetered bandwidth which implies there will be no additional bandwidth cost to the application when user traffic grows.
<b><u>Practical Tips</u></b> <b>Tips – Understand the bandwidth payment terms:</b> Many cloud providers charge additional bandwidth fees by usage. If you are running an application with significant bandwidth requirements (e.g. video streaming or photo sharing), these fees may take up a significant part of your monthly cloud hosting cost. A cloud service

provider without a bandwidth meter can provide a better budget planning.

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