**Case Study**

Healthcare Cloud-in-a-Rack

Abstract

Traditionally, a typical healthcare organization runs over a hundred applications on the same number of individual physical servers connected to a legacy storage infrastructure. However, recent initiatives of healthcare reform force healthcare providers around the world to reevaluate their operational efficiency and cost structure in order to stay competitive or just to survive. Most hospitals are exploring alternative solutions to consolidate their IT infrastructure using the cloud. According to a recent study published by HIMSS Analytics, 83% of healthcare organizations are using cloud-based applications today, and 67% are running Software-as-a-Service (SaaS)-based applications.

In fact, the cloud computing market in the health care sector is expected to grow to $5.4 billion by 2017, estimated by Markets and Markets.

Private clouds built on elastic virtual infrastructures are increasingly appealing to the healthcare industry. By leveraging open source cloud platforms and cutting edge software-defined storage technologies to consolidate workloads run at individual physical servers and legacy storage arrays, healthcare providers can significantly reduce IT management cost while improving service level and customer satisfaction at the same time. However, introducing a private cloud into an existing legacy IT environment is a daunting challenge, which represents a major hurdle for organizations to adopt the latest cloud technologies, even if it is evident that, going forward, cloud is the only viable solution for their business to stay competitive.

ProphetStor’s Cloud-in-a-Rack for Healthcare solution solves this challenge with a fully integrated platform that combines compute, networking, and storage resources in stand-alone unit. With its modular approach and fully automated deployment service, this solution can be quickly and easily introduced into any existing IT environment. Thanks to Federator® SDS, both new scale-out storage and existing legacy arrays can be managed from a single-pane-of-glass dashboard. Workloads can be migrated to the new cloud environment using Federator’s suite of data services, one application at a time. As a result any healthcare organization can find a comfortable pace, and the budget, to start building its private cloud infrastructure without imposing any limitation on future growth potentials.

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