Fact Sheet

Scalable HP 3PAR Utility Storage for the Cloud

HP innovation simplifies how public and private cloud providers build and deliver IT-as-a-Service

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Overview

Data storage solutions can be complex, costly and slow to adjust to unpredictable business demands. These issues, coupled with explosive data growth and a changing mix of data types, require clients to adopt a new approach to managing both application as well as file data in order to keep their organizations agile in dynamic markets.

To address these requirements, HP has integrated HP 3PAR Utility Storage, a next-generation storage platform built for cloud computing, with HP CloudSystem, the most complete, integrated system for building and managing services across private, public, and hybrid cloud environments. This integration automates management and provisioning across storage, servers, and applications to accelerate client deployment of cloud services. Additionally, to enable clients to simplify data management in complex IT environments that have both file and block data requirements, HP has integrated 3PAR Utility Storage with its HP X9300 Network Storage Systems, based on IBRIX network attached storage (NAS) technology.

These integrations simplify cloud application deployment by automatically provisioning data to the appropriate tier of capacity on demand. This enables clients to easily manage the rapid growth in unstructured file data such as multimedia content. A single HP 3PAR Utility Storage system can serve as a consolidation platform for cloud computing applications, large file-based workloads and enterprise database applications. This multitenant consolidation, or the ability to securely maintain multiple partitions of data on a single array, enables clients to deliver the appropriate storage performance and quality of service necessary for diverse workloads.

Accelerating deployment of Utility Storage for the cloud

Through advanced thin provisioning capabilities, HP 3PAR Storage Systems enable service providers and organizations to cost-effectively

scale storage as they grow by increasing capacity utilization. Additionally, due to the platform's multitenant functionality, clients can deliver guaranteed performance levels when dealing with massive consolidation and cloud workloads.

HP CloudSystem provides a unified method for provisioning and managing services across private, public and hybrid cloud environments. The integration of HP 3PAR Utility Storage with HP CloudSystem centralizes the management of servers, storage and network resources under the HP Storage Provisioning Manager for the HP Matrix Operating Environment. As a result, clients can easily control a cloud infrastructure that spans servers, storage and networking via a single console with thin, tiered storage resources available in its resource catalogue. This unified management reduces the time required for new cloud application deployment from days to minutes[1] and improves administrative efficiency by up to 10 times.[2]

Consolidating and eliminating file server sprawl

To further simplify data management, the HP X9300 Network Storage Gateway, based on the IBRIX scale-out file serving technology, can now leverage 3PAR Utility Storage systems for backend data storage. Clients can choose a high-performance, utility-based storage backend for file-based data while allowing applications that require block-level data access to co-exist on the same storage system.

Integration of 3PAR Utility Storage also adds new capabilities to the HP X9300 Network Storage System. For example, clients can integrate file and block storage while independently scaling each for maximum efficiency. As a result, clients get scale and policy-based file tiering coupled with block-level capacity optimization, thin provisioning and multitenant consolidation.

Together, the HP X9300 plus 3PAR solution can scale to a 16 petabyte namespace to simplify management and reduce storage capacity expenses by 50 percent[2] by eliminating over-provisioning.

Growing momentum for utility storage

More than 10,000 sales and services professionals have been trained on HP 3PAR Storage Systems, software and solutions since the close of the 3PAR acquisition, enabling clients worldwide to transition to next-generation utility storage.[3] HP 3PAR Storage Systems' year on year

growth rates have more than doubled in the first full quarter as part of HP vs. the comparable quarter last year.

HP Services is accelerating client adoption of HP 3PAR Utility Storage with assessment, data migration and architectural design services, as well as HP Cloud Discovery Workshops and Hybrid Cloud delivery services. Clients deploying IT-as-a-Service and hosting service providers building new capabilities are assured the global support of HP to accelerate their cloud computing initiatives.

HP Converged Infrastructure is central to an Instant-On Enterprise. In a world of continuous connectivity, the Instant-On Enterprise embeds technology in everything it does to serve clients, employees, partners and citizens with whatever they need, instantly.

(1) Comparative calculation of setup and provisioning process for HP 3PAR storage vs. non HP storage with BladeSystem Matrix as well as experiences of HP clients and HP engineering.
(2) Based on documented experiences and business results of HP 3PAR Utility Storage in client deployments.
(3) Based on HP learning and development recorded trainings for HP and Channel Partner sales, presales, and services.