

Hitachi Data Systems Agile Cloud

Hitachi Data Systems agile cloud portfolio of technologies accelerates and simplifies the adoption of enterprise cloud computing environments. This unique approach consolidates and dynamically automates IT resources to ensure security, elasticity and reliability in a scalable and cost effective manner that builds on the investments IT organizations have in place today.

Cloud Computing

Cloud computing is not a product, but rather, a way to provide IT services. Hitachi Data Systems delivers the industry's most integrated set of computing resources to create a single pool of virtualized block, file and content storage, enabling organizations to adopt cloud services at their own pace. This unique approach uses a single infrastructure which is reliable, scalable, multitenant and multitered; it provides integrated search, migration and archive capabilities and is designed for great performance. Securely virtualizing these IT assets enables them be provisioned as needed to support a wide range of infrastructure and content services in public, private and hybrid clouds.

Agile Solutions

Hitachi Data Systems content and infrastructure clouds provide seamless access to all information and IT resources. Industry leading Hitachi Universal Storage Platform® V, Universal Storage Platform VM, award winning Hitachi Adaptable Modular Storage and Hitachi Simple Modular Storage provide a single, virtual pool of storage with a host of key cloud attributes that can be provisioned

against all types of IT services on demand. These services can be delivered via a number of server-based solutions that provide “on ramps” to storage for applications, internal users and consumers of cloud services.

These solutions include:

- Hitachi NAS (formerly Hitachi NAS Platform), powered by BlueArc® for file services
- Hitachi Content Platform (formerly Hitachi Content Archive Platform) for archive, content depot and backup reduction
- Hitachi Data Discovery Suite for collaboration and search

The Hitachi Data Systems integrated, yet open approach enables partners to create their own unique ecosystem solutions and services to leverage desired cloud attributes.

Agile Technologies

With the flexibility provided by partitioning and replication in Hitachi storage systems, data can be isolated for use in public or private clouds, enabling a single infrastructure to be a hybrid cloud that serves both roles. Additionally, with the replication capabilities of Hitachi ShadowImage® Heterogeneous

Hitachi Content Platform

The feature rich Hitachi Content Platform provides a solution that can be used for archiving, business continuity, content depots, disaster recovery, e-discovery and many other services in a single, massively scalable cluster.

For IT environments of all sizes, Hitachi Content Platform is an intelligent content-based storage solution that provides a storage platform for a wide range of unstructured content. By providing a multitenant architecture, object versioning, retention and disposition services, encryption, immutability, high availability, search capabilities and much more, Hitachi Content Platform helps IT securely segregate data within different namespaces to prevent unauthorized access and provide different service level agreements (SLAs) and features for different datasets.

Replication or ShadowImage Replication software, which provides “in the box” replication, it is possible to make content created on another platform immediately available for review on the public cloud using a Hitachi Content Platform, for example.

Hitachi Dynamic Provisioning software enables storage administrators to define large amounts of virtual disk storage but provision only enough physical storage to meet their short term requirements. As additional storage capacity is needed, it can be allocated from the Dynamic Provisioning storage pool with no impact to the availability of the agile cloud infrastructure.

Data mobility is another critical element of agile cloud infrastructures. Hitachi Tiered Storage Manager software in conjunction with the intelligent tiering capabilities with Hitachi NAS and Hitachi Data Discovery Suite enables secure and transparent data mobility between storage tiers to reduce risks and to support easy movement of data. This reduces physical disk requirements as well as backup volumes and leads to more efficient utilization of the existing storage, resulting in environmental savings in floor space, power and cooling.

Multitenancy

New multitenancy features in Hitachi Content Platform enable a truly multitenant environment that ensures security and privacy among various constituents within a shared infrastructure.

Supporting a variety of protocols and third party technologies, Hitachi Data Systems helps IT organizations leverage their existing investments in hardware and software and allow legacy devices to inherit cloud attributes, preventing the cloud from becoming just another silo or requiring a complete refresh/update of hardware and software. This also makes it easy to adopt the Hitachi agile cloud infrastructure without rewriting applications.

Benefits of Hitachi Data Systems Agile Cloud Infrastructures

- **Capital Expenditure (CAPEX) and Operational Expenditure (OPEX) Savings**
 - Consolidation and multitenancy
 - “Just in Time” consumption
 - Increase return on assets
- **Increased Utilization**
 - Extend useful lifetime of onsite assets
 - Aged/reference content moves to cloud
- **Storage Service Level Management**
 - Multiple quality of service (QoS) tiers available to cloud
 - Leverage data mobility services
 - Increase flexibility
- **Enhanced Business Continuity**
 - “Always there”
 - Minimize reliance on legacy data protection
 - Save on licensing fees
- **Improved Uptime**
 - Nondisruptive migrations
 - Increase reliability
- **Investment Protection**
 - Proceed at your own pace
 - Leverage existing third party hardware by virtualizing it with Hitachi Universal Storage Platform V, Universal Storage Platform VM or Hitachi NAS
 - Recycle capacity and bestow new features with Universal Storage Platform V, Universal Storage Platform VM or Hitachi NAS

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