

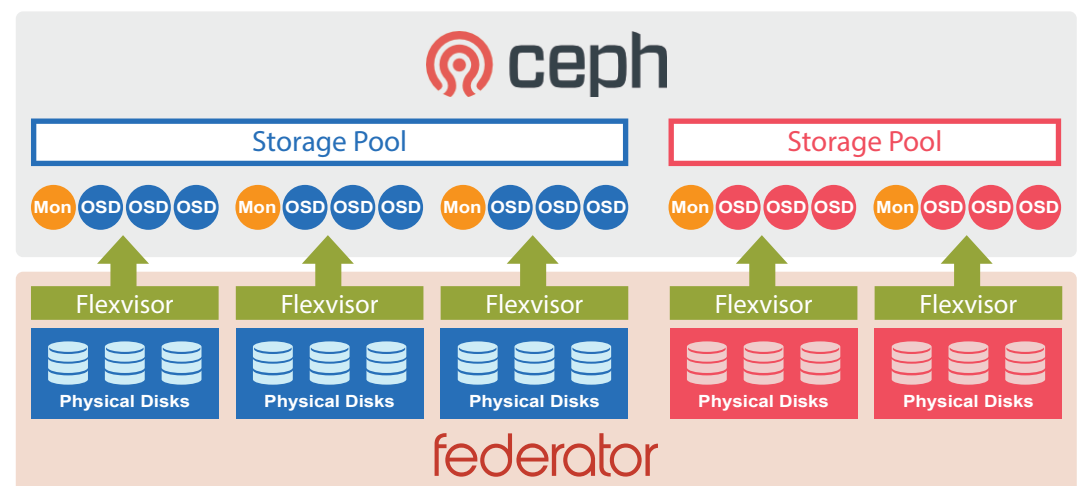
Federator[®] SDS Scale-Out

We define storage from Storage server to Data Center to Cloud Infrastructure

Next-generation storage requires a high performance software solution that turns commodity hardware into an enterprise cloud infrastructure with a scalable storage system. Data centers are stretched with rapid data growth, longer retention times and regulatory compliance.

Federator Software-Defined Storage (SDS) meets these challenges by introducing an integrated solution based on open standards running on both commodity and purpose-build appliance, resulting in an advanced storage system that is efficient, flexible & scalable. Federator is an array of data services software that includes orchestration, storage virtualization, I/O traffic modelling, elastic resource control, business continuity, disaster recovery, data migration, copy management and storage management.

Ceph, a clustered platform that simultaneously offers object, file and block services, is rapidly becoming the de facto scale-out storage solution in the open source community. When Federator integrated with Ceph, it offers cost efficiency, improved management functionality and technology integration superiority from data centers to cloud service providers.

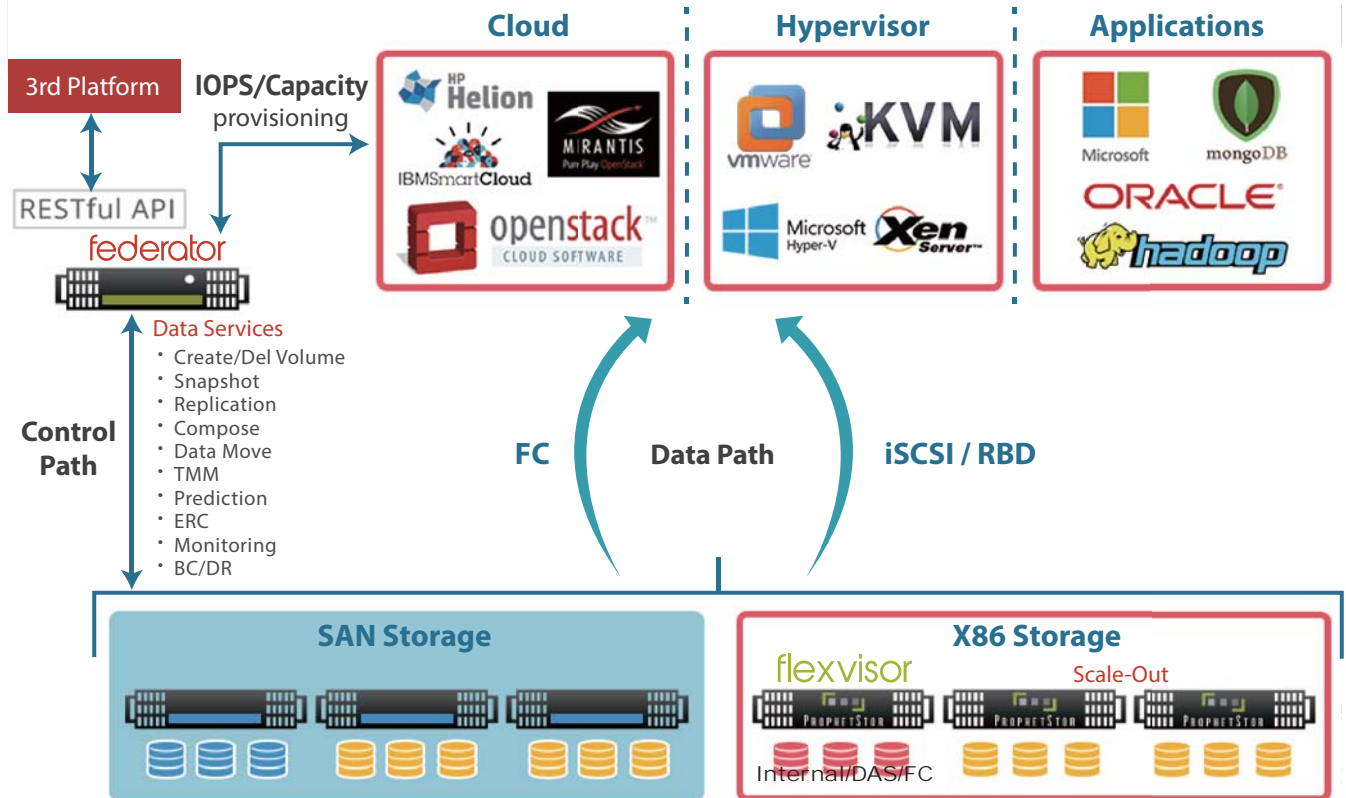


Federator Scale-Out Benefits

- Automated Deployment of Ceph clusters through PXE (Pre-boot Execution Environment)
- Easy configuration and pool management of Object Storage Devices (OSD) created by Federator storage hypervisor Flexvisor
- Ceph Storage IOPS performance classification and capacity provisioning
- Orchestrated Storage nodes with pool offering and enterprise-grade advanced features such as compression, deduplication, thin-provisioning and RAID
- Trending graphic reports with an analytic engine
- Optimized journal performance with SATA or NVMe SSD
- Low latency with iSER (iSCSI Extensions for RDMA) enabled clients
- Both Storage and Monitoring Node can be deployed in the same hardware
- Manage different types of storage from enterprise arrays to software based storage on X86 hardware through easy plug-in storage adapters
- A fault tolerant, easy to configure, next generation distributed object store providing storage for cloud service provider
- Stands out in increasing operation efficiency, improving availability & operational cost reduction
- Provides iSCSI / FC / RBD Support
- Well documented RESTful API

Highlights

- All-Flash Storage Optimized
- High Availability Architecture
- Thin-Provisioning
- Deduplication and Compression
- Quality of Services (QoS)
- OpenStack Integration
- RESTful Management API
- Price and Performance
- Heterogeneous Server and Storage Support



Scalability & Acceleration

Commodity hardware is the key differentiator. Federator provisions storage across standardized X86 hardware especially on initial hardware and software acquisition. In addition, no vendor lock-in.

Flash SSD acceleration allows Scale-Out Ceph cluster to achieve random read performance of up to 40,000 IOPS per node. With a random Read-Write of 70:30 ratio, performance achieved at 20,000 IOPS per node.

High-speed Networking integration provides overall bandwidth for storage node interlink. Assuring efficient handling of OSD heartbeat, data replication, cluster rebalancing and recovery traffic.

Flexibility & Manageability

Software-Defined OSD's for Ceph greatly simplify disk management for large-scale deployments. It allows Ceph to access OSD's with enterprise grade advanced features.

No Single Point of Failure in Scale-Out architecture. Dismissing the issues faced by dual controller storage such as RAID group or storage controller failures.

Anytime Expansion by simply adding Storage Nodes. For unstructured data environment like cloud computing and testing & development, the ease to add nodes enables IT planning to support unscheduled data growth without any downtime.

"The hardware infrastructure is only as powerful as the software it runs, and vice versa. As a hardware company, we strive to identify first-class software vendors and collaborate with them to create tried-and-true total solutions for our customers. We are extremely pleased to have this opportunity to work with ProphetStor Data Services to broaden our reach in the marketplace of software-defined data center and together bring cloud computing to a whole new level."

- *Etay Lee, General Manager, Network & Communication Business Unit, GIGABYTE*

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