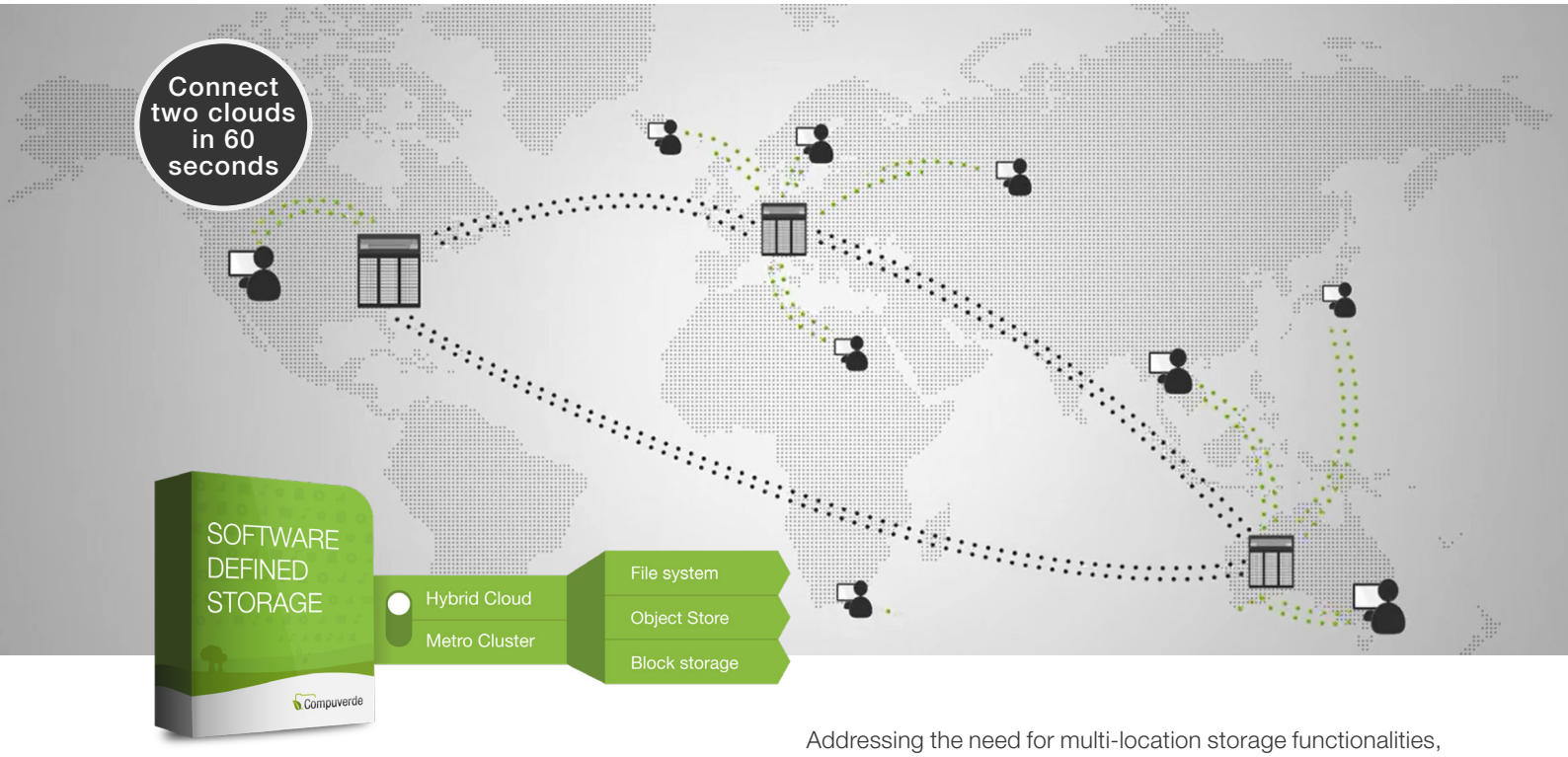
Best practice: Hybrid Cloud

Introducing the next generation Hybrid Cloud storage from Compuverde

Compuverde delivers a unified storage solution with NAS (SMB/NFS), SAN (iSCSI) and Object Store (S3/Swift/Cinder) in one package. Fully software-defined, completely hardware-agnostic and massively scalable, eliminating the cost and worry of future data migrations and hardware replacements.

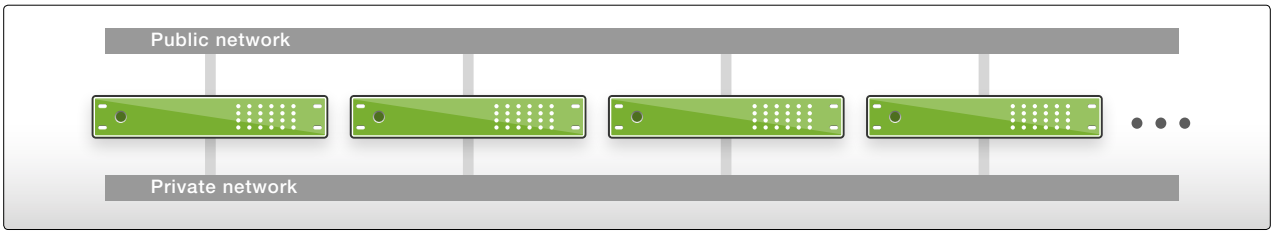


Requirements

- 2 x Compuverde vNAS clusters
- Internet connection

Addressing the need for multi-location storage functionalities, Compuverde Hybrid Cloud combines the true flexibility of Compuverde Software-Defined Storage, with the ability to replicate data between multiple data centers, any distance apart.

Any Workload **Any Application** **Any Protocol**



Hybrid Cloud 1.0

The first release supports disaster recovery scenarios where snapshots from one data center can be mounted on up to 16 different locations. These locations can be connected over the internet, getting rid of strict network requirements. And with no 'hardware compatibility' lists, you are completely free to choose your setup. When you add additional locations, all will immediately make use of the features and benefits that a solution from Compuverde offers. After setup, incremental snapshots are synchronized across multiple locations, over the internet. The files can have different erasure encoding, further enabling you to reduce data footprint and have added flexibility to your storage system.

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Software-defined storage

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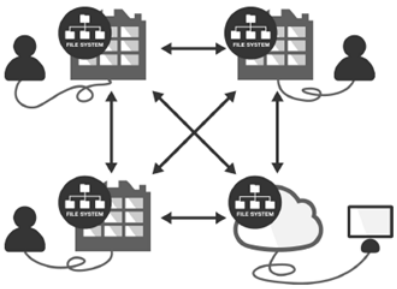
A datacenter that has the role as a destination for Hybrid Cloud shares and receives snapshots from other source datacenters, can at the same time be the source for Hybrid Cloud shares mounted on other datacenters.

Should you ever be in a situation where one or more data centers are lost, you will be able to restore data from snapshots located at one of the remaining data centers and be up and running in no time. Users can even start to access the storage before the recovery is complete, although with reduced performance while the recovery process is taking place.

This way, Hybrid-Could enables you to deliver a continuous, positive user experience. It makes your solution both flexible and future-proof; with the ability to grow as big as you like and in the way that best suits your needs.

The snapshots are automatically transferred between datacenters over the Internet, protected by TLS Transport Layer Security encryption. When at rest, data is optionally protected by 256-bit encryption on the storage layer, just like any other Compuverde storage solution. For this to be efficient, make sure that your servers' CPUs are prepared with hardware accelerated encryption.



Everything is easily configurable and maintainable through Compuverde's management client that you connect, one to each data center. Here you can see the status, when snapshots are created, updated and synchronized.

Compuverde offers high performance, low latency and linear scaling of resources with unbeatable cost savings on CAPEX and OPEX. With the Hybrid Cloud solution, we are developing on these efforts by using a mechanism for partial file updates to utilize minimum network bandwidth while maintaining complete synchronization between file shares at various data sites. Hence, with the next generation Hybrid Cloud, you can forget about all the complexities of maintaining data at different sites and concentrate on growing your business.

Whatever your requirements, be it a scalable storage solution, a shared storage solution or a storage solution that is seamlessly integrated through all services, you can trust Compuverde to deliver to your expectations.

Key Features

- ✓ Secured storage
- ✓ Simple, symmetric architecture
- ✓ Complete support for file system
- ✓ Complete synchronization of snapshots
- ✓ Partial file updates for reduced bandwidth requirements
- ✓ Independent file encoding for synchronized shares
- ✓ Unbeatable performance
- ✓ Extreme cost-savings
- ✓ No hardware vendor lock-in

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