

Hybrid Cloud Storage

Affordable cloud solution that seamlessly extends on-premises capabilities for primary storage, backup, archive, and disaster recovery with no end user or application changes.



- 1 The administrator sets up an Azure storage account in the Azure management portal. The storage account credentials are configured using the StorSimple GUI, telling the StorSimple device where to put data in Azure.
- 2 The administrator creates volumes on StorSimple.
- 3 The administrator protects data by configuring data protection policies.
- 4 The on-premises file server accesses the appliance using iSCSI.
- 5 StorSimple initially stores data in the fast Solid State Drive (SSD) tier of the appliance.
- 6 As the SSD tier approaches capacity the oldest data blocks are deduped, compressed, and automatically migrated to the HDD tier.
- 7 As the HDD tier approaches capacity, the oldest blocks are encrypted and securely sent to Azure blob storage using HTTPS.
- 8 Azure synchronously replicates the data to two other blob replicas within the same datacenter to insure redundancy.
- 9 Azure can also replicate the blobs to a secondary Azure datacenter at least 300 miles away using Geo-redundant storage. Three additional copies of the data are asynchronously replicated.
- 10 When the file server requests data stored in Azure, the data is returned without any impact to the user or their application. A copy of the requested data is then stored locally in the SSD tier.

StorSimple is a storage solution that uses both an on-premises appliance and Microsoft Azure. Diagram only applies to Series 5000 and 7000 appliances.

