Stacbloc Software Defined Storage

Functionality overview

Stacbloc Software Defined Storage is a multi-faceted storage backend suited for high dense virtualized environments, Clouds. SDS platform is provisioned as software on top of customized standard x64 enterprise grade server hardware. Stacbloc SDS provides Block, File, Object backends to store structured and unstructured data for variety of applications.
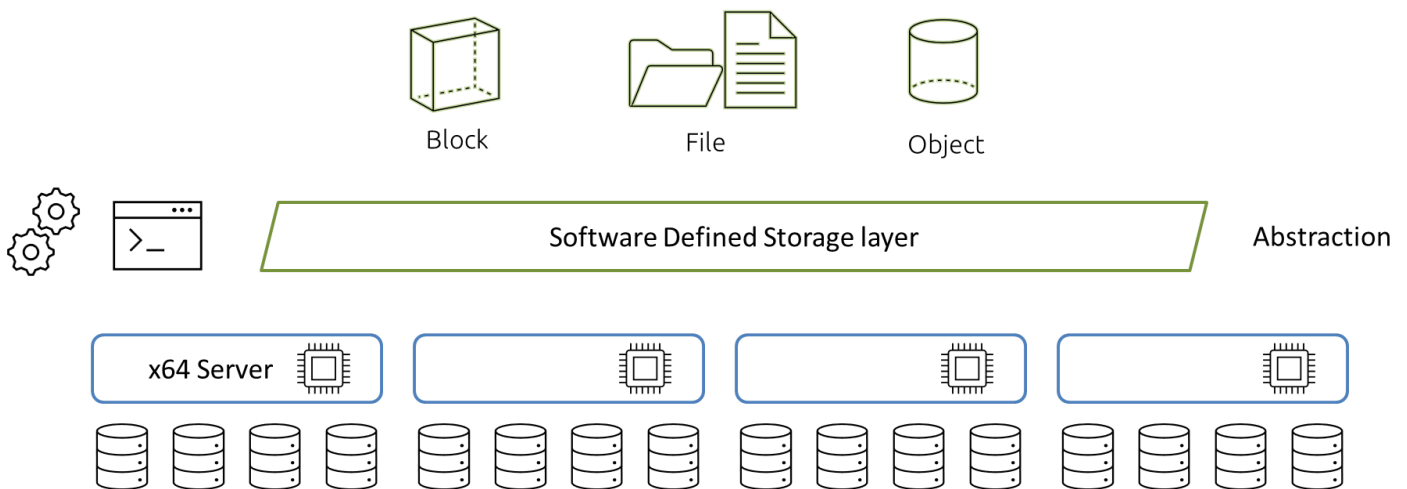
Feature overview

Following key SDS features provides a robust scalable storage that spans to Terabytes and Petabytes orders.

UNFIED	Provides Block, File, Object storage backend
SCALE OUT	Supports Scale out architecture, add nodes to grow storage capacity. * Starts from minimal 3 nodes.
DISTRIBUTED	Evenly distributed data storage across nodes in cluster.
SELF HEAL	Automatically rebalance data across cluster to compensate for disk or node failure.
THIN PROVISION	SDS uses thin provision to write data, space consumption grows as writes happen.
LINKED DATA	Linked Copy on Write Clones reuse data by linking them.
REPLICATION	Custom replica copies for data. * Starts from 2 copies
PARALLEL ACCESS	SDS provides storage object location map to clients. Clients make parallel read, write access to cluster without a central lookup,
WIDE STRIPE	SDS stripes data across disks and nodes. Data access spread across cluster increasing throughput.
ALL FLASH	All SSD SDS cluster provides higher IOPS multiple orders higher than spinning disks.

GEO ZONES	SDS scales across geographies with real time replication, enables Business Continuity with disaster recovery.
MULTI SIZE OBJECT	Provision to create multi size objects to suit application needs
INTEGRATION	RESTful API
AUTOMATION	Can be automated with DevOps tools for CI CD. Storage provisioning, backup, snapshot, off site movement.
MANAGEMENT	Cluster wide management on single console.

Architecture overview

Block   File   Object

Software Defined Storage layer   Abstraction

x64 Server

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