StorPool
DISTRIBUTED STORAGE

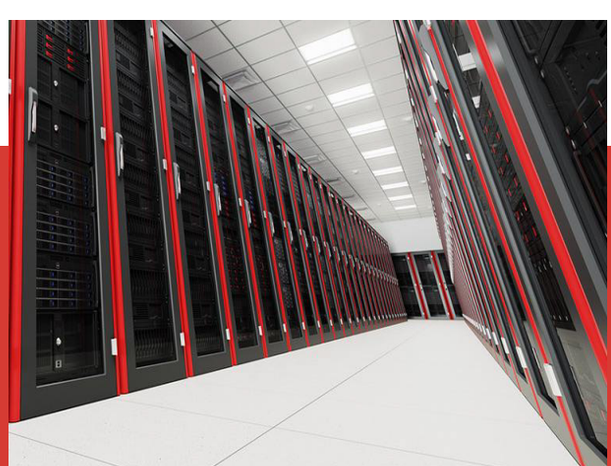
openstack™

Astonishing performance and reliability for your OpenStack deployment

StorPool enables OpenStack users to build faster clouds

StorPool is extremely fast and efficient block-storage SDS (Software-Defined Storage). It is natively integrated with OpenStack and is focused on providing an alternative SDS for building a fast, reliable and scalable OpenStack cloud.

StorPool has a native integration with OpenStack block storage (Cinder) and compute (Nova) components. These integrations are upstream since Queens release of OpenStack and available as plug-ins for previous versions.



Use Cases

- Solving performance issues in OpenStack powered deployments
- Running large scale deployments which demand scalability and performance
- Building complex environments, which require deployment flexibility and resource efficiency
- Building reliable OpenStack clouds and assuring their uptime

StorPool - the power of the Software-Defined Storge

StorPool is a fully-distributed block storage solution, which uses standard hardware and builds storage system out of this hardware. StorPool is designed form the ground up to provide the fastest, most reliable and resource efficient block-storage software on the market.

Compared to SANs, all-flash arrays, or other storage software StorPool is either faster, more reliable and/or more scalable!

Running StorPool with OpenStack

Feature-rich OpenStack integration

The integration with OpenStack exposes the full functionality of a powerful modern SDS - separate volume per VM, end-to-end data integrity, QoS (Quality of Service), JSON API, snaphosts & clones, built-in backups NVMe & RDMA support, online reconfiguration and many more.

Hardware reduction & Space savings

All volumes and snapshots in StoPool are created with thin provisioning, which allows for a highly optimized use of the physical storage capacity. StorPool does copy-on-write volume snapshots, which can be then cloned to create other volumes. Snapshot & clone operations are instantaneous, even when creating dozens or hundreds of volumes at once. It also saves space in the system.

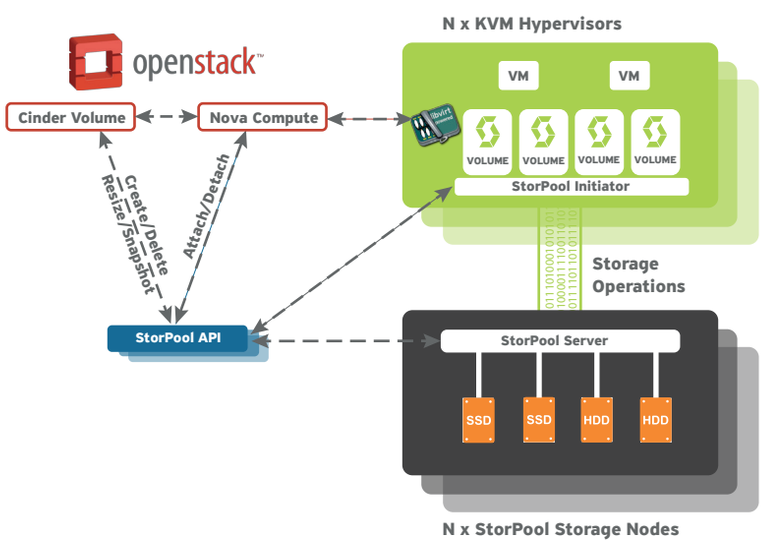
Cinder, Nova, Glance & os-brick

StorPool's Cinder driver allows any OpenStack component to create, remove, and extend user volumes, as well as copy data from Glance images to volumes and vice versa.

StorPool's Nova driver allows StorPool-backed Cinder volumes to be used by virtual machine instances. With Nova's "root disk on a new volume created from a snapshot" functionality it is very easy to create one or more VM instances from the same OS template.

StorPool's Glance driver is upcoming, however, even now, Cinder's image caching and snapshots make full use of the benefits of instantaneous cloning of volumes and snapshots. Instead of having the root disk populated by an image provided by the Glance service, our Cinder's image caching will create the new volume with no network transfer and no delays. StorPool's copy-on-write on-disk format will make sure that there are no unnecessary identical copies of the data.

OpenStack's **os-brick** component allows other OpenStack services to attach and make use of StorPool-backed Cinder volumes.



Why using OpenStack with StorPool storage?

SPEED

StorPool-powered systems start from 500,000 IOPS and 0.2 ms of latency. And scale from there.

FULLY MANAGED

24/7, Enterprise-grade support, SLA, real time monitoring and proactive issue resolution, The trusted solution for mission-critical clouds.

RELIABILITY

StorPool has the most extensive End-to-End data integrity functionality on the market, protecting your large volumes of data like nothing else.

SCALABILITY

Starting from 10TB, growing to the petabyte range online, with application running on top of the system.

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