Create A Private Cloud with SnapServerNAS and BitTorrent Sync™

Free data replication, disaster recovery and mobile access: BitTorrent Sync™ is now bundled with the SnapServer NAS.

Cloud-based data storage services have become synonymous with reliability, high-performance and accessibility. Most cloud services began as personal options for individual client storage and have now expanded into the enterprise with additional security and management options for administrators. However as businesses adopt these still-maturing cloud infrastructures, they face growing concerns related to privacy, performance, cost and capacity limitations of cloud architectures. These concerns can be overcome by deploying an in-house private cloud solution. Taking advantage of the reliable SnapServer NAS systems and the free BitTorrent Sync™ utility, administrators can create a secure, easy to manage private cloud that is free of subscription fees.

Control costs, capacity and security

Traditional cloud-based backup and sync services direct data traffic through their own servers and store customer data in various geographic distributed datacenters. As a customer, administrators must completely relinquish control of their data to these distributed storage servers and are left vulnerable to external threats or outages. Since SnapServers with BitTorrent servers or clients contact each other directly, there is no need to copy data to, or rely on, external cloud servers or storage. With BitTorrent Sync™ and SnapServer, you retain exclusive access to, and complete control of your information.

Unlike traditional cloud services, BitTorrent Sync™ has no associated fees. There are no monthly or yearly fees to create and grow a private cloud based on SnapServer with BitTorrent Sync™. With BitTorrent Sync™, utilize the available storage behind your corporate firewall with encrypted access from client systems. Infrastructure capacity can grow seamlessly by adding additional SnapServer storage, and by taking advantage of the flexibility of DynamicRAID, administrators can add new hard drives or replace hard drives without disrupting storage sync processes.

SnapServer and BitTorrent Sync™ – Instant Private Cloud

By installing a local or remote SnapServer NAS with the BitTorrent Sync™ package, administrators are able to sync data between other SnapServers, desktop clients, and mobile devices. The resulting network storage cloud is spread out across many nodes. With BitTorrent Sync™, all participating systems take advantage of the maximized bandwidth to replicate files. Performance increases as files are propagated to more devices. Users will realize better performance as data is more widely distributed.

The Overland Storage SnapServer NAS series is an array of high performance, scalable network attached storage servers, built for data protection and seamless growth. With DynamicRAID, hard drives can be added or replaced at any time to grow thinly provisioned storage pools. Volumes grow automatically as drives are added, simplifying management and reducing time required to adapt to changing requirements. Scalable up to 384TB of raw storage, SnapServers grow with data and ensure file access remains secure and online.

BitTorrent Sync™ is a secure, efficient and simple way to manage data replication and sync package. It takes advantage of the efficient BitTorrent protocol. BitTorrent Sync™ automatically syncs data between directories across a wide variety of client computers and mobile devices. Once configured, BitTorrent Sync™ runs as a background process to monitor incremental data changes and syncs changed data with one or more target directories on geographically distributed devices. Users access and update data from any device connected to the Internet. Syncing directories across multiple platforms is as simple as generating and exchanging private keys for each directory.

BitTorrent Sync™

Product Description

Ideal for syncing large data sets over geographically dispersed systems, BitTorrent™ Sync offers simple set-up and configuration in even the most complex network environments. BitTorrent Sync™ is preinstalled in GuardianOS for syncing directories between SnapServers, desktop clients and mobile devices. Create a private cloud, or simply sync data between systems for disaster recovery and backup.

Network Transfer Protocol

BitTorrent protocol

Connection

TCP/IP, UDP/IP, NAT Traversal, UPnP port mapping and relay server

Management Interface

Web Based GUI

Security

All sync traffic between devices is encrypted with AES cypher and a secure key of 20 bytes.

Notable Features

- Free and unlimited syncing
- Encrypted transfers
- Full access, read only or one-time secrets
- Sync any platform by exchanging secret keys
- Connect mobile devices with a key or by scanning a QR code
- Incremental file transfers
- File versioning
- Deleted file archive

Supported Platforms*

- SnapServer GuardianOS 7.5*
- OS X Snow Leopard or newer
- Windows XP SP3 or newer**, Windows Server 2008 or newer
- *Windows XP 64-bit is not supported.
- Linux with kernel 2.6.16 (glib c 2.4) or newer on ARM/PPC/i386/x86_64
- FreeBSD 8.3 or newer
- iOS 6.0 or newer
- Android 2.2 or newer
- Windows Phone 8

* Supported by Overland Storage

** Sync for any platform other than SnapServer NAS can be downloaded at www.bittorrent.com/sync

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