ITC INFOTECH

Business-friendly Solutions

**ENTERPRISE CLOUD BACKUP AND RECOVERY SOFTWARE FOR PRIVATE AND HYBRID DEPLOYMENT**

Protect your private enterprise cloud environment with a best of breed backup, recovery, and restore solution purpose-built for the cloud. Asigra software reduces the amount of backup assets you need to buy, manage, and maintain.

Simplify Backup, Recovery and Restore with Your Cloud

Private cloud environments can be used to deliver specialized solutions across your entire organization, including a range of Backup, Recovery and Restore services. Depending on your needs, Asigra Cloud Backup™ can be deployed in a private on-premise solution, or you can partner with an Asigra Service Provider for replication and disaster recovery protection in a hybrid cloud deployment. Your service provider partner can also offer centralized 24x7 remote monitoring and management of the storage used for your backup data.

No matter what cloud deployment model is right for your organization today, Asigra Cloud Backup is ready to adapt to your evolving needs. Our solutions leverage your cloud infrastructure and preserve the restorability of your existing backup data if you switch between public, private or hybrid cloud backup and recovery deployment models. This gives you the flexibility to future-proof your backup and recovery strategy, and optimize your operating expenses and capital expenditures.
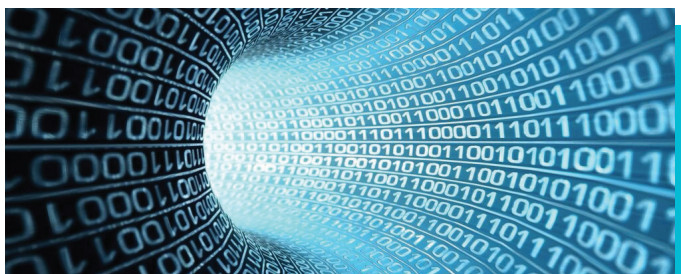
Harness the Power of Agentless Backup

Asigra Cloud Backup does not require any agents to be installed on source machines or any applications that need to be protected. Our DS-Client software is an agentless data collector, installed at the edge of your cloud (e.g. a remote office site, or laptop or tablet) to collect data from all servers, desktops, laptops, structured applications and raw/unstructured files that need protection. The protected data is then aggregated to a data vault or repository, called the DS-System at the core of your cloud.

Eliminating Backup Agents Dramatically Improves:

- Scalability — allows for efficient backup and recovery processes to be applied to multiple data set sources across multiple machines.

- Manageability — significantly reduces labor-intensive maintenance of traditional software agents on the network.

- Security — does not require an open port on the firewall like traditional agent-based backup solutions do, which can be vulnerable to hacking and the reprogramming of backup data collector.

- Reliability — eliminates service disruptions caused by scheduled downtime for maintenance, as agentless backup doesn't require source machine resources and system restarts.

## Manage Your Total Cost of Ownership

In addition to eliminating the operational costs associated with agent-based backup solutions, Asigra Cloud Backup reduces your operating costs in two fundamental ways:

- Hardware agnosticism lets you leverage existing infrastructure investment (DS-Client and DS-System can run on any kind of hardware)

- Tiered backup storage and archiving through Backup Lifecycle Management aligns the value of data over time with the cost of protecting it

Asigra also provides the flexibility to switch your backup and recovery deployment scenario between private, public and hybrid cloud models, allowing you to adjust and optimize how you allocate operational and capital expenditures. Asigra Cloud Backup can be leveraged as a backup service, as well as on-premise, so you can decide how to engage an Asigra Partner for optimal backup replication and disaster recovery.

Asigra Cloud Backup Overview
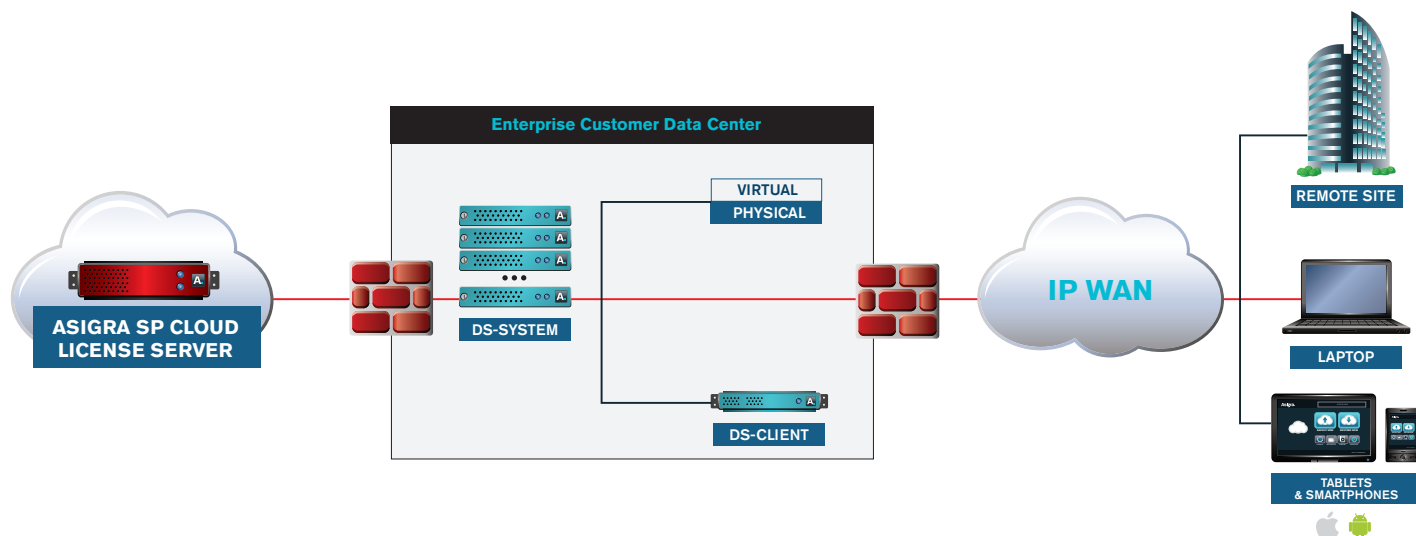
Protect the Security and Sovereignty of Data

The security of your data is paramount. Asigra protects your data in-flight and at-rest at all times with Advanced Encryption Standard (AES) 256-bit, and provides encryption key management of the highest standard. Our agentless data aggregation method does not require open ports on firewalls, thereby eliminating a potential hacking risk.

Asigra has attained the NIST Federal Information Processing Standard (FIPS) 140-2 security certification, which requires strict guidelines for the implementation of encryption. FIPS 140-2, along with Asigra's policy-based backup data destruction and associated digital certification, minimizes compliancy penalties and eliminates confidentiality damages.

With the changing compliance environment, it is imperative that businesses not only know that their sensitive information is secure, but also where it is located. Asigra can be deployed in a way that helps businesses meet legal obligations by ensuring data remains in the jurisdiction of origin.

How Asigra Works with Your Cloud

Asigra's breakthrough cloud backup software combines a cloud optimized scale-out architecture, a cloud backup and recovery software platform, and a cloud API and management system to seamlessly and efficiently manage, scale and deliver data protection services.

Improve Business Continuity

Your cloud backup solution has to be dependable. Asigra gives you the peace of mind that your data backup system can meet your business needs with rapid Recovery Time Objectives (RTO) and flexible Recovery Point Objectives (RPO). Ensure your business continuity with these features:

Low-touch operations — Asigra's agentless DS-Client model is automatically and transparently upgraded by the DS-System, requiring no end-user intervention, system re-starts or scheduled downtime.

Continuous backup data integrity checks — constant and consistent background autonomic healing of the backup cloud with immediate notification to ensure recoverability and internal Service Level Agreements (SLAs) are exceeded.

Extended endpoint device support — provide backup functionality to desktops, laptops, smartphones and tablets.

Auditable recovery tests — simulated drills ensure recovery point and recovery times can be exceeded and demonstrate that your backup is fully operational.

Centralized management — central or remote monitoring and controlling of storage allocation licenses and actual storage for all components of the Asigra environment.

Snapshot capability — gives you the ability to achieve aggressive Recovery Point Objectives (RPOs) and Recovery Time Objectives (RTOs) for even large amounts of data. You can

leverage the native NetApp Snapshot API to perform quick and efficient hardware-based backups across homogeneous NetApp platforms. The Asigra Snapshot Manager enables organizations to simplify configuration, management and scheduling of backups and restores with a "single pane of glass" view of all snapshots in the environment.

Engage an Asigra Cloud Service Provider to Optimize Flexibility

An Asigra Hybrid Partner can support specific elements of your backup and recovery strategy, and Asigra offers you the flexibility to create a partnership that fits your business. Here are three ways Asigra helps you work with a Service Provider:

1. Outsource 24x7 remote monitoring, management of storage allocation licenses and deploy your internal staff to more strategic initiatives – leaving backup tasks to the backup experts.

2. Switch between public, private or hybrid cloud backup deployment models while preserving the restorability of the existing backup data.

3. Transfer of backup replication and disaster recovery responsibilities, leveraging the Service Provider as a

physically distinct location for increased security and compliance.

Whatever you require for your private enterprise cloud, or however it evolves, Asigra Cloud Backup will protect your data, so you can get on with business.

What Are Private and Hybrid Clouds?

A private cloud is owned by a single company and provides the same kinds of flexibility, scalability, provisioning, automation and other benefits as public cloud or distributed computing, but still allows it to control data behind a corporate firewall.

A hybrid cloud is composed of two or more private and public clouds that are separate entities that work together to enable data and application portability. Hybrid clouds allow companies the control of an internally managed private cloud, while using a public cloud for specific circumstances, including off-premise backup and recovery failover services.

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