A company's data is considered in most cases to be its main asset. A backup system is essential to ensure the security of such information in the case of unexpected incidents (human error, natural disasters, hardware failure, etc.).

To ensure that all our clients enjoy a Standard Backup Service, Gigas includes this free of charge in all of its Cloud Datacenter products. In addition, we give the same amount of disk space contracted by the client in disk backup. This amount of space allows clients to use it to make the (free) basic copies included in the product, or, choose to contract our Advanced Backup Service that includes more features. Our Advanced Backup is based on a business solution designed by the leading backup manufacturer for Idera virtual environments.

MAIN ADVANTAGES

Easy to use
The Gigas support team will install the server where the backup software is housed, It will also supply the client with the necessary manuals for the configuration of the service for the servers where the backup is required

Control panel
The control panel lets you see at a glance the all the backups of the servers including policies, disk utilization, the status of the backup areas and more. Users can manage backup tasks from a simple web interface such as Windows. It also allows for backup notifications to be programmed by e-mail.

High performance incremental backups
The first time a data protection policy is executed, a first replica of the data is created. Following this replica, the server backup stores deltas in blocks (as opposed to files), meaning fewer backup windows and reduced disk I/O.

Programmable backups
Clients can create their own backup policy, setting a target for data replicas (e.g. every 15 minutes), and even define how many recovery points they want to retain. Older recovery points are automatically merged and their storage is recycled.

MS Volume Shadow Copy Service
We use Microsoft's "Volume Shadow Copy Service" to create a snapshot of the volumes on the disks, thus avoiding problems with locked or open files.

Data retention policy
Some companies are required to keep their activity logs. In these cases the system allows retention levels, in other words, a specific file containing the backup is stored for 30 days, 6 months, 1 year, or however long is required. These kinds of companies require huge disk capacity. Gigas offers the possibility of expanding disk capacity and even offers an economical alternative (SATA disks), which provides capacity at discounted prices.

Powerful file exclusion system
This is a navigation and selection system for files and folders that can be excluded from the data protection policy. Advanced instructions can be added using templates to exclude only certain types of files.

Recovery of individual files
In the case of any loss, the system allows for recovery points that permit individual files to be retrieved, making it unnecessary to recover the entire server. It is therefore possible to obtain a specific file or any version that the system has stored depending on the retention policy that has been established.

Hot backup
A database is an environment where information is constantly being accessed and stored. With a traditional system, if, at the moment some information is about to be read while it is in the process of being written, the stored information would not be consistent. To avoid this, and especially for the most widely used databases (MySQL, SQLserver), an agent is installed that guarantees the integrity and the consistency of the data by making a hot copy.

KEY POINTS

1 Fast
- Real-time backups
- Incremental backupsBackups
- Programmable backups

2 Tried and tested
- In over 1,000 datacenters
- Protects more than 275,000 servers

3 Web Technology
- Centralized web interface
- Easy to manage backup policies
- Control of the backup process

4 Onsite & Offsite backup
- No interruption to servers
- Multi-Point replication

5 Scalable
- Incorporates as-you-grow repositories
- Centralized control for multi-server environments
- Protects up to 100 servers with one Manager

6 Fast Recovery
- "Bare-Metal" restore
- Restores files with a click
- Restores even with the backup running

7 Cost Efficient
- You get the same amount of backup space as the amount of disk space you contract
- Clients can choose between the free backup service and the number of licensed Advanced Backups they require

8 Security
- Stored data is encrypted

Disk Encryption
AES-256 disk encryption can be enabled at the time the disks where the backup will be stored are created. This helps to better protect the data stored on the backup server and also protect data across the network.

Scalability and pay-as-you-go

This solution allows the expansion and purchasing of the number of licenses based on the servers where the backup is needed. For example, a client may have 20 virtual servers and decide to use Standard Backup for 15 of them and Advanced Backup for 5, thereby only paying for 5 Advanced Backup licenses.

Bare-Metal restore

This involves a complete backup of the system and is the fastest alternative for file for file recovery in the case of disaster. By not using a file system but by writing blocks to disk, it is possible to restore large file systems much faster.

Third copy option

In specific cases, e.g. for security reasons, some companies need to make three copies, with the third copy being stored at a facility outside Gigas. In these cases, the client can configure the third copy directly from the backup server itself from an external location. This location can be connected via a VPN.

Multi-Point replication

This allows multiple backup copies to be made both onsite and offsite. In addition, onsite redundant copies can be made without interruption during the replication.

Industrial type storage

Allows storage of up to 64TB of recovery points per disk. The control system for disk accesses is consistent with ACID standards and automatically recovers from unexpected system or product failure.

Multi-platform system

Supports various system environments:

- Physical / Virtual / Windows / Linux
- Microsoft SQL Server, Exchange y MySQL
- RedHat, CentOS, Ubuntu, Debian, SuSe, Linux kernels

OTHER APPLICATIONS

Central management backup

Manages up to 100 server backups with a single Manager backup repository. Its expandable architecture allows repositories to be added as it grows.

Backup MS SQL Server

Backup for MS SQL Server 2012, 2008 R2, 2008, 2005 and Express databases. It uses the MS Volume Shadow Copy Service so that disaster recovery can be obtained for the whole SQL Server.

Backup for Microsoft Exchange Server

Complete backup for MS Exchange Server 2010 and 2007. Protects the entire MS Exchange environment, including the operating system, installation of Exchange, and full bare-metal system recovery.

Backup MySQL

Backup for MySQL databases with snapshots which are configured by coordinating MySQL Lock and Flush. It restores databases from the web interface for MS SQL Server, Exchange and MySQL

TECHNICAL CHARACTERISTICS

Cloud Servers

Agent for Windows

Physical memory: Minimum 512 Mb

Windows Operating System: Windows Server 2012, Windows Server 2008 R2, Windows Server 2008, Windows Server 2003 (SP2+)

MySQL requirements: MySQL Enterprise, MySQL Community, MariaDB

SQL Server requirements: SQL Server 2012, SQL Server 2008, SQL Server 2005, SQL Server Express

Exchange Server requirements: Exchange Server 2010, Exchange Server 2007

Agents for Linux

Physical memory: Minimum 512 Mb

Linux distributions: CentOS, Ubuntu, Fedora, Debian

MySQL requirements: MySQL Enterprise, MySQL Community, MariaDB, Perconna Server

for more information: **gigas.com**