

# Back Up to Hyperscale Cloud Services with Data Protector

Micro Focus® Data Protector integrates with leading cloud services and HPE StoreOnce Cloud Bank Storage to enable fast, seamless, and reliable backup and recovery on-premises and in the cloud.

## Data Protector at a Glance:

- **Integrates Natively with Cloud Services:**  
Provides native integrations with the world's leading cloud storage services.
- **Offers Single View of On-Premises and Cloud Storage:**  
Presents all local and cloud storage within a single management and reporting solution.
- **Works with HPE Cloud Bank Storage:**  
Offers efficient, seamless data transfer between on-premises and cloud targets, without extra appliances.
- **Supports Backup of Cloud-Based Data:**  
Enables the protection of data first held in cloud services under a common strategy.

## Solving the Cloud Conundrum

The emergence of hyperscale cloud solutions such as Amazon Web Services (AWS) S3 and Microsoft Azure is giving organizations around the world access to flexible and low-cost data storage. These services have also provided a new and easy way for enterprises to retain data away from their sites without having to build secondary data centers or rent capacity within specialized facilities. This is critical to any disaster recovery plan.

However, there have been limitations in using these services for backing up and recovering data—especially for large enterprises with complex environments, large files, and older data.

Two key issues are speed and cost. It can take an unacceptable amount of time to upload data to cloud storage solutions for safekeeping, unless organizations are prepared to spend heavily on network capacity. It can also take too long to download data when it's needed to restore a failed system the organization depends on for its day-to-day operation. In addition, users typically incur extra charges when downloading data from cloud services, adding to costs.

Another issue is management complexity. To date, cloud storage services have been treated as add-ons to enterprises' data storage environments. They have been useful in adding capacity, but it hasn't been possible to monitor or manage them seamlessly with an organization's existing computing infrastructure and backup strategies.

A further limitation has been reporting and regulatory compliance. With cloud services standing aside from on-premises backup and recovery systems, it has been difficult for organizations to easily include them in their reporting about what data is stored where. This has become a more significant concern with the release of new conditions such as the European Union General Data Protection Regulation requirements.

## Data Protector Masters the Cloud

Micro Focus Data Protector makes it simple for organizations to use cloud storage solutions as part of a single backup and recovery strategy. Cloud storage is best suited for archiving data or holding large files such as audio and video media, X-rays, and other large picture files that are often held on physical or virtual tape systems.

## Native Integration with Major Cloud Providers

Data Protector features native integration to the Amazon S3, Microsoft Azure, Scality, and Ceph cloud storage solutions. All data exchanged with or stored within these services is compressed and encrypted for efficiency and security.

Any media server can act as a gateway to the supported cloud services. This means administrators can use the cloud storage just like any other backup target—a simple mouse click sends data to the cloud instead of a local device.

Administrators can also access cloud services through gateway appliances such as AWS Storage Gateway and Microsoft Azure StorSimple, and control the backup and restore

process directly from the Data Protector. This can be preferable for larger data sets since these dedicated appliances provide additional caching capacity and enable users to further optimize when and how data is moved to the cloud.

### Integration with HPE Cloud Bank Storage

HPE Cloud Bank Storage is a capability that makes data transfer between HPE StoreOnce Systems and cloud storage services significantly more efficient. It makes it possible to protect hundreds of petabytes of data at a cost 20 times lower than that of conventional cloud storage. It also increases the capacity of HPE StoreOnce Systems.

An extension of HPE StoreOnce Catalyst technology, HPE Cloud Bank Storage is supported with Data Protector out of the box, without the need for plug-ins. By using Data Protector and Cloud Bank Storage together, users can transfer backup data (in the form of object copies) seamlessly between on-premises storage systems and cloud targets. There is no need to use a separate appliance.

Because Data Protector and HPE StoreOnce use the same deduplication engine, the deduplication process can run either at the application server, on the media server, or at the target backup appliance. There is no need to rehydrate data after it has been transferred because all metadata is also transferred to the cloud target. This means it is possible to restore data even if HPE StoreOnce is replaced.

A HPE StoreOnce virtual storage appliance (VSA) can also be set as a backup target via Data Protector and Cloud Bank Storage. This allows the Data Protector to directly back up and restore data and applications from virtual machines and containers held in the cloud to VSAs.

### Back Up Data from the Cloud to Your Premises

While organizations typically use cloud storage to hold off-site copies of data, there may be times they wish to make local backups of data held on a cloud service. A good example is a company that wishes to hold local copies of virtual machines and containers stored within a public cloud service. Data Protector supports this scenario and

enables administrators to manage the process of backing up and restoring these cloud-first items.

The solution uses functionality from the Open-Stack feature set to support a wide range of object storage scenarios—from the cloud to your premises, or vice versa.

### Gain Comprehensive Reporting

Data Protector provides comprehensive reporting capabilities to give administrators a clear view of where their data is held and allows them to manage it more efficiently—across both on-premises and cloud resources. In addition to streamlining management tasks, this makes it easier to meet regulatory demands for information about what data is held where and how it is managed.

### Benefits for Users

Data Protector enables organizations to save time and money while using hyperscale cloud storage services to augment their data backup and recovery operations. Using Data Protector, they can:

- Monitor and manage cloud storage repositories through the same interface and tools they use to control all their existing resources, rather than needing to manage cloud storage separately
- Make the process of moving data to the cloud seamless and automatic by scheduling object copy jobs once, then letting the system take care of moving data to the cloud
- Gain the flexibility to restore data from local on-premises storage or from object copies residing in the cloud
- Reduce bandwidth and equipment costs, while accelerating processes, using the solutions's native integration with cloud services or compatibility with HPE StoreOnce, to reduce appliances and the amount of data to be moved
- Increase security and compliance by ensuring data is encrypted and gaining a unified view of all data held.

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