



▶ Four Essential Fundamentals to Increasing Agility in the Cloud

It wasn't long ago that only the largest enterprises could afford to equip and maintain a dedicated off-site data center for disaster recovery. Thanks to virtualization and the cloud, that's no longer the case. Although the growth of the cloud can be credited with driving down the cost of hardware and storage – and consequently backup and recovery – it can also be blamed for increasing the complexity of data protection and disaster recovery.



With data on premise or in a private cloud, mixed with public cloud and the pervasive use of SaaS consumption for business critical applications, the IT organization must now protect and manage corporate data across vastly different physical, virtual and cloud infrastructures. And with each distinct source, comes a different set of data protection and recovery challenges. Point products as well as VM and cloud vendors' individual proprietary solutions, make meeting today's aggressive Recovery Time Objectives (RTO) all but impossible. Without a single point of control for data protection and recovery no matter where data lives, IT organizations are forced to compromise recoverability and continuity for elasticity and flexibility.

Right alongside cost, agility has become a highly sought-after benefit of virtualization and cloud services. IT organizations recognize the value of being able to quickly respond to business needs in a flexible and efficient manner – whether that means spinning up a virtual machine in a private cloud or enabling file sharing through a public cloud. As a result, corporate data no longer sits solely within the confines of the corporate network. Instead, it sits in a combination of private and public clouds, sometimes unbeknownst to IT. Let's face it, no one thanks IT when everything is running smoothly, but faced with downtime because of a disaster, natural or otherwise, IT needs to rise to the occasion or it could be job threatening.

While business users benefit from the cloud's ease of use and flexibility, IT faces the challenging task of managing silos of data. Each cloud platform has its own set of management processes and technologies that do not integrate across clouds. The additional operational overhead increases the risk that policies won't be consistently applied and that data will not be adequately protected. Worse yet, IT may not even have the tools to recover data from public cloud services. That is sure to lead to a lot of restless nights.

Cloud on Your Terms: Avoid Vendor Lock in and Tack Control of Your Data¹

Read how you can create real-world workload portability, today, without giving up capability, agility, cost-effectiveness or performance.

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► THE ELEMENTS OF CONTROL

Regardless of where corporate data resides, it must be protected and managed in a manner that ensures it can be recovered in the case of a disaster or – more commonly – a service outage. In addition, IT organizations need an efficient means of managing data that preserves agility. That means the ability to recover data quickly while leveraging the cloud's economics, and the ability to change cloud providers as business needs dictate. Ideally, this is achieved with a single point of control for both on-premise and cloud-based data. Sounds almost impossible but it isn't.

For more than a decade companies have trusted Commvault to protect their on-premise data. Now, the industry leading data protection and information management provider makes data protection and recovery



operations as easy and seamless in the cloud as in traditional, on-premises infrastructure by combining several key elements:

- 1 Native cloud storage integration across more than 20 platforms minimizes manual scripting and complexity**, while making data from file sync and share services, such as OneDrive and Dropbox, visible to IT for protection, discovery and compliance. IT organizations also gain the freedom to choose the best infrastructure, at any time, that best meets their security, application, cost and reliability requirements. It also enables organizations to realize the true value of storage tiering, by offering the choice of where backup files are retained, for low cost archival or high speed access.
- 2 A “best-fit” approach to getting data offsite. Commvault offers a variety of options for moving data offsite** to ensure that IT organizations can meet their business or application SLA requirement without added costs, risk or complexity. More importantly, Commvault helps IT organizations best leverage the technologies – array-based replication, VM replication, host-based block-level replication and WAN-optimized deduplication – that best fit the organization’s overall data protection strategy. It is also the only provider to offer a solution that delivers these technologies in a single, deeply integrated software package.
- 3 Deep integration with cloud compute platforms that allows the provisioning and creation of images.** By integrating with Azure and Amazon Web Services (AWS) as well as private clouds running on VMware or Microsoft Hyper-V, an entire application environment can be recovered in the cloud or even across clouds. IT organizations can take advantage of the public cloud’s highly elastic compute infrastructure to provision and de-provision test or recovery environments at will. There’s no need to maintain a secondary data center as in the past.
- 4 Pre-built workflows that tie everything together into a fully orchestrated recovery scenario.** Pre-built and custom workflows enable IT organizations to orchestrate complex end-to-end processes. Essentially runbooks, these workflows automate the creation of an on-demand application environment to meet faster RTO. Using these workflows, IT organizations can easily operationalize disaster recovery for many different types of workloads.

As a single point of control, Commvault software serves as IT’s command center for protecting and managing data anywhere it resides. The vendor-neutral solution has cloud capabilities built-in natively, and provides the data movement, orchestration and management capabilities for data both on-premise and in the cloud. It also provides centralized management of backups, snapshots and replication, thereby providing a complete data

**Greater business agility/
flexibility is amongst the top
three expected benefits of a
private cloud.**

IDG ENTERPRISE CLOUD

Computing Research, 2014

backup and recovery solution for corporate data across public and private clouds.

Commvault was one of the first data management vendors to integrate (via REST APIs) across cloud storage platforms as well as early to offer cloud orchestration and provisioning capabilities designed to streamline the management of cloud infrastructure for disaster recovery. In addition, Commvault supports cloud storage as a target natively.

As IT organizations build their hybrid clouds, they need to ensure that data is protected regardless of where it resides and in a manner that preserves the agility and flexibility they sought from the cloud in the first place. This means continuing to realize the economics of the cloud while getting smart about managing cloud resources. Commvault helps companies achieve these goals by leveraging the cloud's value, and simplifying data protection and management. Disaster recovery will never be stress free, but having a solution in place that reduces complexity and bridges data silos, will have you sleeping better at night the next time lightning strikes.

▶ RESOURCES

i commvault.com/resource-library/55d35c8c994265e073000013/cloud-on-your-terms-avoid-vendor-lock-in-and-take-control-of-your-data.pdf

▶ Commvault software delivers the unparalleled advantages and benefits of a truly holistic approach to data and information management. Learn more at commvault.com/solutions.

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