

WHITE PAPER

Commvault® Cloud for Google Cloud Platform (GCP)

Commvault Cloud offers a solution for the Google Cloud Platform (GCP) that allows you to maintain the flexibility, elasticity, and resiliency of Google's cloud services, but also protect and manage the data for those workloads with the same processes that you're using for the rest of your data.

OVERVIEW

Public cloud services have been gradually becoming more central to corporate IT strategies over the last few years, with most companies now utilizing two or more of these public clouds as an extension of their infrastructure. More recently, this adoption has accelerated drastically to accommodate the global shift to working from home. As these services become more and more prevalent in the corporate IT landscape, a new set of challenges around data security arises. Silos of data are being managed separately from on-premises data, without any of the same policies and SLAs that IT organizations use to ensure protection and compliance. Without a true cloud cyber resilience platform, these companies are at risk of their data not being protected, available, or utilized fully to maximize its value.

Commvault Cloud offers a solution for the Google Cloud Platform (GCP) that allows you to maintain the flexibility, elasticity, and resiliency of Google's cloud services, but also protect and manage the data for those workloads with the same processes that you're using for the rest of your data. Set protection and retention policies based on your IT's data protection strategy – and apply that across all your data. Migrate your applications and data between on-premises and cloud environments. Search and eDiscovery capabilities, data analytics, advanced ransomware protection — all the data services Commvault provides to on-premises data can be extended into the cloud to drive value wherever your workloads reside.

HIGHLIGHTS

- Integration with Google Cloud Storage — write data directly to all tiers
- Agentless protection for Google Compute Engine Virtual Machine Instances
- Application-consistent instance-level backups
- "Incremental Forever" data protection reduces backup windows and recovery times
- Move long term archive data from tape to cloud storage for lower cost, faster recovery
- Ransomware Protection and WORM media for compliance with Cloud Storage Bucket Lock
- Recover data securely to any recovery platform



Find more on cyber resilient data protection for Google Cloud Platform with Commvault Cloud. Visit commvault.com/supported-technologies/google >

NATIVE STORAGE INTEGRATION

Commvault Cloud provides native integration into Google Cloud Storage, providing the capability to read and write data from all classes: Standard, Nearline, Coldline, and Archive. There is no need for cloud connectors, gateways, or special hardware — within a couple of minutes you can have a Google Cloud Storage bucket configured as a storage target to be used in your data protection policies.

REPLACE YOUR TAPES WITH GOOGLE CLOUD STORAGE

For a long time now, managing the long-term retention of data has been a headache. There's too much data to store on expensive local storage, and hardware appliances are costly point solutions that still require costly hardware maintenance throughout their lifespan. Traditionally, tape libraries have been chosen for lower-cost long-term storage, but they can be difficult to maintain, especially when it comes to managing full tapes. This typically involves physically removing the tapes from the library, ensuring correct labeling, and then packing them up either for on-site storage or for pickup by a service to take them offsite. If a restore is ever needed, the data must be identified, located, transported back, and loaded back into the library for recovery. Spending all that time handling tapes at your datacenter is less than ideal.

Enter Commvault Cloud and Google. As we covered earlier, connecting Commvault Cloud to Google Cloud Storage takes a couple of minutes. From there, you've enabled a multi-tier SLA, policy-driven backup engine with limitless offsite storage for long term retention. You can customize your data protection to leverage any and all of the Google Cloud Storage classes for different access levels to meet RTO objectives. You can even configure Cloud Storage Bucket Lock for air-gapped, WORM storage to meet any legal retention requirements or to safeguard from ransomware or other attacks.



- Eliminate unreliable and fragile physical tape. Can you truly rely on “the truck” to safeguard your data?
- Save significant amounts of administrative time by leveraging automation and orchestration to eliminate manual tasks.
- Break free from vendor lock-in and avoid the need for costly forklift upgrades and constant hardware refreshes.

In addition to simplifying day-to-day management significantly compared to archival with tape libraries, the value of Commvault Cloud with Google Cloud is especially obvious when you need that archived data restored. You no longer have to search for tape numbers, cross-reference their locations, submit work orders for tape shipment, and manually load them into the library for reading. Instead, Commvault Cloud knows the data's location, leverages the integration with Google Cloud storage and can retrieve the data within milliseconds. Talk about cutting down your RTO!

Georgia State University is using Commvault Cloud to archive to Google Cloud [Read why >](#)

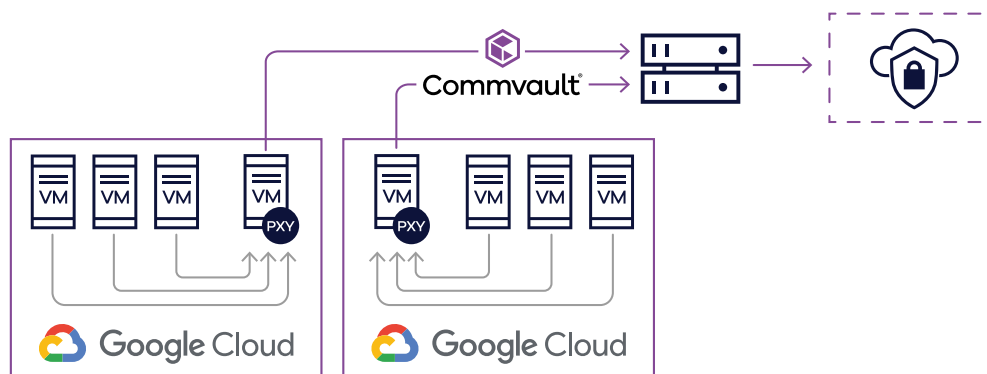
SECURE YOUR WORKLOADS IN THE CLOUD

Protecting public workloads using native tools can be complex. To protect Google Cloud workloads and datasets, organizations frequently resort to creating their own scripts to orchestrate the different snapshot and replication methods available within the various Google Cloud services. These scripts can be difficult to maintain, audit, and scale as your organization takes advantage of the flexibility and elasticity of GCP. Regulatory or business process requirements also might necessitate creating secondary copies of backups that reside in other clouds, increasing complexity exponentially. Commvault Cloud simplifies the entire operation with native integration and policy-driven automation, giving you the protection you need without the administrative headaches.

Commvault Cloud and its Virtual Server Agent (VSA) technology integrate into the Google Compute Engine to enable:

- Automatic discovery and protection of Google Compute Engine VM data.
- Agentless backup & restore of VMs.
- Application-consistent backups of critical apps with specialized agents.
- Synthetic full and 'Incremental Forever' backup method to increase flexibility and efficiency.
- Service level-based data management and protection plans.
- Browse and restore full VMs or individual files from the guest OS.
- Commvault cyber resilient ransomware protection improves threat and risk mitigation with foundation and application hardening, pre-emptive alerts, incident remediation and reporting.

Simplified and scalable cyber resilient protection powered by the Commvault Cloud Virtual Server Agent



MIGRATE WORKLOADS, MAXIMIZE FLEXIBILITY, MAINTAIN CONTROL

With workloads being spread across multiple cloud providers, many organizations are forced to manage multiple disparate sets of data, each with its own methods to access and tools to manage. For those reasons, migrating data between on-premises and multi-cloud environments often requires scripting operations or significant hand holding, limiting your practical flexibility. With Commvault Cloud, migrating between clouds becomes simple. Native integration into all the major cloud vendors (support for 40+ cloud options) provides the basis for the movement of data across your on-premises and cloud environments, and built-in automation and workflows enable the programmatic migration of data and conversion of application workloads. Commvault Cloud provides the tools to move your data easily, at any time, while keeping it secure and accessible for its full lifecycle.

FLEXIBLE AND EASY-TO-USE – YOUR DATA AT YOUR FINGERTIPS

Built for versatility, Commvault supports a diverse range of deployment options. And if you need room to grow, Commvault Cloud HyperScale™ X is available as an integrated solution that combines all aspects of the cyber resilience solution in a scale-out system.

Command Center™ consolidates all configuration, management, and reporting tools into a simple-to-operate, centralized, web-based interface.

- Secure, manage, monitor, and report on all your workloads across on-premises and multi-cloud environments — from a single, consolidated view.
- Search/eDiscovery capabilities across all your data, no matter where it is.
- Simplistic licensing model can cover all cloud workloads in an enterprise.



Use Commvault Cloud to migrate your SAP HANA workloads to Google Cloud.

[Read more >](#)



SUMMARY

You rely on Google Cloud Platform to provide a reliable, scalable environment to host your data and workloads. With deep, native integration and powerful automation tools, Commvault Cloud can accelerate your migration onto GCP and provide a comprehensive cyber resilience platform to keep your data secure across on-premises and cloud environments. Commvault Cloud enables you to protect your data, analyze it to improve business outcomes, and migrate it across platforms to optimize flexibility — all from a single pane of glass. With these capabilities and more, Commvault Cloud enhances the flexibility and scalability of public cloud services by giving you complete control of your data and maximizing the value you can extract from it.

Leverage the full capabilities of Google Cloud with Commvault Cloud today. To learn how [contact us >](#)