

# Resilient, Cost-Efficient Data Protection for Google BigQuery



## The Challenge

- ⬇ **BigQuery is mission-critical yet vulnerable** to human errors, software bugs, and outages—placing vital datasets at constant risk of loss.
- ⬇ **Recreating corrupted or lost data is expensive**, requiring large-scale reingestion, ETL, streaming, and draining valuable engineering hours.
- ⬇ **Native backups are limited, and most third-party solutions offer no protection**, leading to incomplete datasets, inconsistent insights, and compromised decisions when data must be manually restored.
- ⬇ **Backup storage costs can escalate quickly.** With petabytes of data in BigQuery, daily exports to object storage can get very expensive.

## Protect Google BigQuery with HYCU and Dell

### Capabilities

- **Lightning-Fast Backup and Recovery**  
Protect TBs of BigQuery datasets in just minutes and granularly recover tables and datasets.
- **Atomic, Consistent Backups**  
Data is protected and recovered using our patent pending atomic backups ensuring consistency across data sets.
- **Comprehensive Protection**  
Protect routines, models, stored procedures and more using an SLA policy offering 24x7 protection.
- **Secure, Customer-Owned Backups**  
Keep all backups in your own GCS Bucket or in other S3-compatible targets, public cloud or on-premises.
- **Industry Leading Deduplication**  
Eliminate duplicate data globally across all datasets and across all exports.

### Value

#### Lower Your TCO

Smart deduplication strips out redundant backup data, minimizing storage waste and unnecessary spend.

#### Lower Your Egress Charges

Keep a copy of your data in a different region or cloud provider with efficient replication post deduplication.

#### Protect Your Productivity

Recreating data sets takes time and resources away and it often incurs loss of streaming data.

#### Eliminate the Costs of Mistakes

Significant savings with rapid, granular recovery of data instead of costly reingestion and rebuilding.

#### Resilience from Attacks and Insider Threats

Recover datasets from a secure copy no matter the threat, internal or external.

#### 100% Ownership; 0% Burden

Full ownership of protected data without the burden of a backup infrastructure.

# Protecting BigQuery: What makes HYCU and Dell unique?

## Rapid recovery and enterprise-class protection

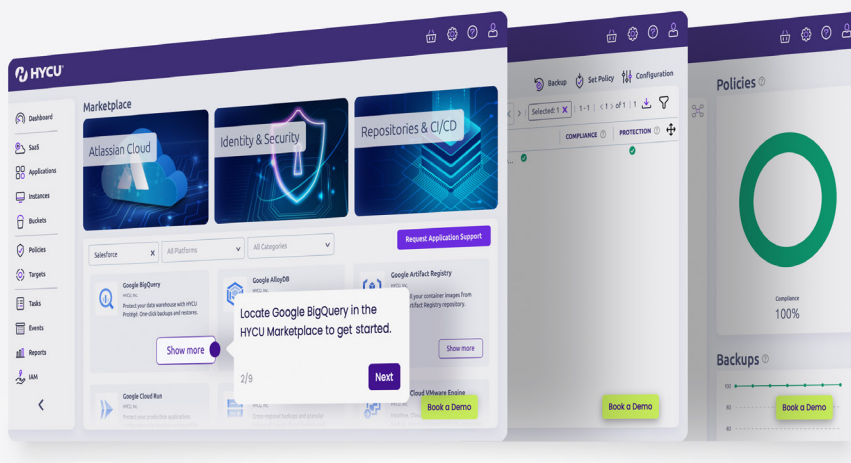
- **Lightning-Fast Backups.** Protect TBs in minutes without disrupting your environment.
- **Deep Backup Coverage.** Protect table metadata, models, routines, function calls, etc.
- **Atomic Backups.** Ensure consistent views and queries of data across multiple data sets.
- **Granular Recovery.** Restore Tables, Datasets, and Atomic Backup Sets (dependent datasets).

## Secure, Compliant, and Efficient Data Retention

- **Customer-Owned Backups.** Keep backups in your Dell PowerProtect Data Domain hosted in Google Cloud.
- **Ransomware Recovery.** Immutable, object-locked backups with full lifecycle management, leveraging the DD Boost Protocol and a dedicated, locked-down appliance that cannot be altered.
- **Data Sovereignty.** Run HYCU and storage backups in your Google environment to meet data residency requirements.
- **Space Efficiency.** Up to 30x cost savings with industry-leading deduplication and compression.

## Protect the entire Google Estate and beyond

- **Purpose-Built with Native APIs.** HYCU leverages native Google APIs and snapshots; no agents or sizing are needed.
- **Customer Experience.** Industry-leading customer experience with an NPS of 91.
- **Complete Google Cloud Protection.** Protect Google compute, serverless, databases, and storage alongside BigQuery.
- **Protect BigQuery Connectors.** Protect dozens of BigQuery connectors like CloudSQL, AlloyDB, Salesforce, Confluence, Amazon S3, etc., from the same view.



## Take a Tour

Enterprise-Class  
Data Protection for  
Google BigQuery



See for Yourself