



HYCU for Google Firestore

R-Cloud Module Guide

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About the module

With the R-Cloud (formerly HYCU Protégé) module for Google Firestore, you can back up your SaaS application data securely and efficiently.

Prerequisites

Before you add the module to R-Cloud as a source, the following prerequisites must be fulfilled.

Minimum permissions set

- The authentication service account must contain the following permissions:
 - `datastore.databases.export`
 - `datastore.databases.import`
 - `datastore.databases.list`
 - `datastore.databases.get`
 - `resourcemanager.projects.get`
 - `resourcemanager.projects.list`

As an alternative, you can assign your authentication service account the Cloud Datastore Owner role.

- The storage service account must contain the following permissions:
 - `storage.objects.create`
 - `storage.objects.delete`
 - `storage.objects.get`
 - `storage.buckets.create`
 - `storage.buckets.get`
 - `resourcemanager.projects.get`
 - `resourcemanager.projects.list`

As an alternative, you can assign your storage service account the Storage Admin role.

Note Assigning roles might grant permissions that exceed the required minimum permissions for the service accounts.

Required APIs

The following APIs are required:

- Cloud Firestore
- Cloud Storage
- Cloud Resource Manager

Limitations

When adding the module to R-Cloud and while protecting the related SaaS application, the following limitations apply:

- The module uses the native Google Firestore export and import functionality to perform the backup and restore operations. For details, see Google Firestore documentation.
- You cannot assign a policy that has Snapshot specified as the backup target type to this type of SaaS application.

Consideration

The R-Cloud module for Google Firestore supports restoring SaaS application data to a different source (that is, a different SaaS module of the same type). For instructions on how to do this, see *HYCU R-Cloud Help*.

Protecting data

R-Cloud starts protecting the data stored in Google Firestore account after you add the module as a source to R-Cloud and assign a policy to the related SaaS application.

For details on how to add the module as a source, see *HYCU R-Cloud Help*.

Backing up data

You can back up the following:

- Individual collections (native mode) and namespaces (datastore mode). This allows you to restore the collections and namespaces individually.

- The entire database. This shortens the duration of the backup and allows you to restore the entire database.

The option to back up the entire database is available in the backup configuration dialog.

For details on how to configure the backup for the SaaS application data, see *HYCU R-Cloud Help*.

Restoring data

The following Google Firestore resources can be restored:

- Collections
- Namespaces
- Database

For details on how to restore the SaaS application data, see *HYCU R-Cloud Help*.

Provide feedback

For any suggestions and comments regarding this product or its documentation, send us an e-mail to:

info@hycu.com

We will be glad to hear from you!

