

Requirements for BigQuery

Since v5.7.5/5

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BigQuery		
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This section describes the requirements, access privileges, and other features of HVR when using Google BigQuery for replication.

For information about compatibility and support for BigQuery with HVR platforms, see [Platform Compatibility Matrix](#).

For information about the [Capabilities](#) supported by HVR on BigQuery, see [Capabilities for BigQuery](#).

For HVR versions prior to 5.7.5/5, BigQuery is supported using [Agent Plugin](#). For more information, see [Agent Plugin for BigQuery](#).

Location Connection

This section lists and describes the connection details required for creating BigQuery location in HVR. For connecting to a BigQuery location, HVR uses [Simba ODBC driver for Google BigQuery](#).

New Location [Close]

Location:

Description:

Connection | Group Membership

Connect to HVR on remote machine

Node: Login:

Port: Password:

/SslRemoteCertificate ...

/CloudLicense

Class

- Oracle
- Ingres / Vector(H)
- SQL Server
- DB2 Linux/Unix/Windows
- DB2 for i
- DB2 for z/OS
- PostgreSQL/Aurora
- MySQL/MariaDB/Aurora
- SingleStore/MemSQL
- HANA
- Teradata
- Snowflake
- Greenplum
- Redshift
- BigQuery
- Hive ACID
- File / FTP / Sharepoint
- Azure DLS
- Azure DLS Gen2
- Azure Blob FS
- HDFS
- S3
- Salesforce
- Kafka
- Google Cloud Storage

Database Connection

Project:

Region:

Default Dataset:

Email:

Key File Path: ...

Linux

Driver Manager Library: ...

ODBCSYSINI: ...

ODBC Driver: ...

Test Connection | **OK** | Cancel | Help

Field	Description
Database Connection	
Project	ID of the google cloud project. For more information about google cloud projects, refer to Creating and Managing Projects in BigQuery Documentation.

Region	Geographic location of the dataset. For more information about dataset locations, refer to Dataset Locations in BigQuery Documentation. Examples: US, europe-west4, us-west4
Default Dataset	Default dataset to be used in this connection. For more information about datasets, refer to Introduction to Datasets in BigQuery Documentation.
Email	Email ID of the service account. This field is optional.
Key File Path	Directory path containing the .p12 or .JSON service account key file used for authentication. For more information about BigQuery Authentication, refer to Introduction to Authentication in BigQuery Documentation.
Linux	
Driver Manager Library	The optional directory path where the ODBC Driver Manager Library is installed. This field is applicable only for Linux/Unix operating system. For a default installation, the ODBC Driver Manager Library is available at /usr/lib64 and does not need to be specified. However, when UnixODBC is installed in for example /opt/unixodbc the value for this field would be /opt/unixodbc/lib .
ODBCSYSINI	The optional directory path where odbc.ini and odbcinst.ini files are located. This field is applicable only for Linux/Unix operating system. For a default installation, these files are available at /etc and do not need to be specified. However, when UnixODBC is installed in for example /opt/unixodbc the value for this field would be /opt/unixodbc/etc . The odbcinst.ini file should contain information about the BigQuery ODBC Driver under the heading [Simba ODBC Driver for Google BigQuery 64-bit] .
ODBC Driver	The user-defined (installed) ODBC driver to connect HVR to BigQuery. For Windows, this is Simba ODBC Driver for Google BigQuery . For Linux, this is Simba ODBC Driver for Google BigQuery 64-bit .

Integrate

HVR allows you to [Integrate](#) changes into BigQuery. This section describes the configuration requirements for integrating changes (using [Integrate](#) and [HVR Refresh](#)) into a BigQuery location.

Burst Integrate and Bulk Refresh

While [Integrate](#) is running with parameter **/Burst** and Bulk [Refresh](#), HVR puts data into a temporary directory ('staging file') before loading data into a target database.

HVR must be configured to stage the data on Google Cloud Storage before loading it into BigQuery. For staging the data on Google Cloud Storage and perform [Integrate](#) with **Burst** and **Bulk Refresh**, the following are required:

1. A Google Cloud Storage location - to store temporary data to be loaded into BigQuery.
2. Define action [LocationProperties](#) on the BigQuery location with the following parameters:
 - **/StagingDirectoryHvr**: the location where HVR will create the temporary staging files (e. g. **gss://mygooglecloudstorage_bucketname**).
 - **/StagingDirectoryDb**: the location from where BigQuery will access the temporary staging files. This parameter's value should be same as **/StagingDirectoryHvr**.