Syniti

Data Replication

Setup Notes for Replications to Greenplum

Version 9.8.2
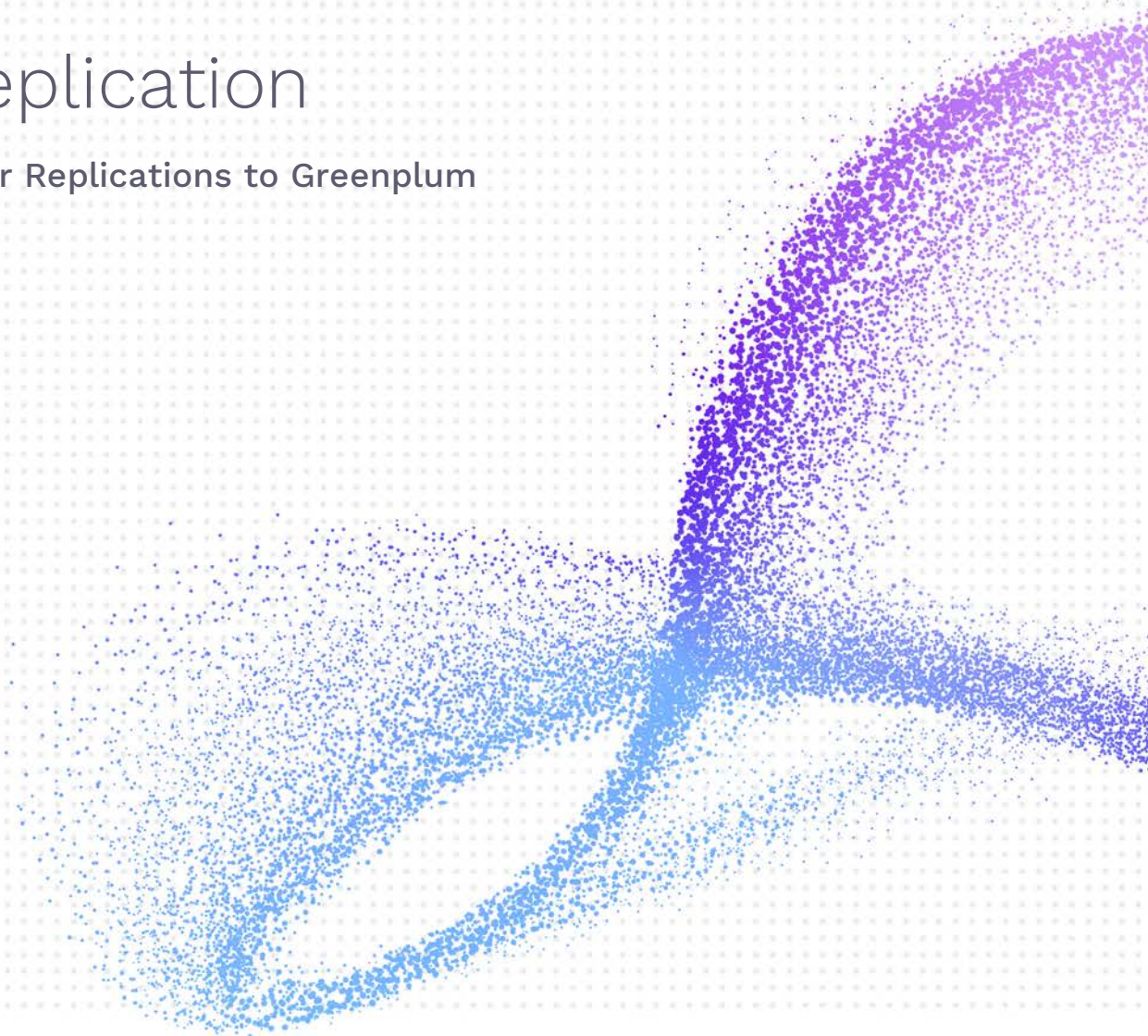
Syniti

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Syniti Data Replication

Syniti Data Replication allows you to replicate data from relational database tables to **Greenplum** in the following ways:

- **Refresh (Snapshot replication)**
  A one-time complete replication from any major relational database source to **Greenplum** as a target, according to replication settings and scripts. You can control the timing of the replication, identify the columns to be replicated and add scripts to transform data during replication. Source databases include Oracle, Microsoft SQL Server, IBM Db2 for i, IBM Db2 LUW, Sybase, Informix, MySQL.

  Continuous refresh
  A regularly scheduled refresh replication as described above. The schedule is defined in the replication settings.

- **One-way mirroring (Incremental Replication)**
  A continuous update of replicated tables based on changes to the source database that have been recorded in the database server log. Typically, this involves an initial refresh operation, as described above, to set up the target table. Then you can define the replication settings to check the transaction log on the source database at regular intervals. Any changes found in the log are applied to data on the **Greenplum** platform.

For complete details on the setup process, check the *Syniti Data Replication User Guide* available from the Management Center **Help** menu.

Connection Type

PostgreSQL .NET Data Provider [recommended by PostgreSQL](#)

Assembly: Npgsql (file name: Npgsql.dll)

Sample path: C:\Npgsql-2.2.3-net40\Npgsql.dll

The driver DLL has to be installed using the [Microsoft Global Assembly Cache Tool](#) (GAC). If the provider is not registered, you will receive the following error when attempting to use the provider:

```
Error creating the command for writing to the target (Replication: 'EMP1' - Target
table: 'public.test1')

System.IO.FileNotFoundException: Could not load file or assembly 'Npgsql,
Version=2.2.3.0, Culture=neutral, PublicKeyToken=5d8b90d52f46fda7' or one of its
dependencies. The system cannot find the file specified.

File name: 'Npgsql, Version=2.2.3.0, Culture=neutral,
PublicKeyToken=5d8b90d52f46fda7'

at ....
```

The commands for installing the PostgreSQL DLLs are as follows when running from the location where the GAC tool is installed:

gacutil.exe –i C:\Npgsql-2.2.3-net40\Npgsql.dll

gacutil.exe –i C:\Npgsql-2.2.3-net40\Mono.Security.dll

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Add Target Connection Wizard

The following field(s) require specific information for Greenplum.

Select Provider Screen

Database

Choose Greenplum from the drop-down list.

Provider

The default value is PostgreSQL .NET Driver.

Assembly

Locate the file Npgsql.dll, typically in the installation folder for the PostgreSQL .NET Provider.

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Set Connection String Screen

Add the Greenplum server name or IP Address in addition to a user ID and password.