

Dashboard Migration Manual

Release 4.0

ISTAT

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Summary

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CHAPTER 1

Introduction

In accordance with the recent architectural design model, the software architecture is organized in microservices. One of these is dedicated to Dashboards.

The migration of existing dashboards into the new database dedicated to dashboards is allowed through the use of a tool external to the application.

To ensure a successful migration operation, some precautions and preconditions must be followed:

- the user performing the migration must have users with write rights to files (in the case of SQLite) or databases (in the case of Sql Server)
- the task must be performed on the databases currently configured in databrowser (not on copies of them); this is because this migration works in writing not only on the destination database (dedicated to dashboards), but also on the source database. Note: this need arises from the fact that in the new version the dashboards shared at node level also implicitly share the related views; views that continue to be persisted in the core database.

CHAPTER 2

Dashboards migration

In the release package, under “utility” there is a utility external to the data browser that, given the database type (SQLite or SQL Server) and the source and destination connections as input, allows you to migrate all the content related to the dashboards..

The folder contains the executable ***Dashboard.MigrationTool.exe*** that performs all the migration operations once executed. All the operations resulting from the migration will be logged in the console. L’utility effettuerà i seguenti check iniziali sulle banche dati:

- Check tables in source and destination databases (create tables if not present)
- Check permissions on databases (read on source and write on destination)

By running ***Dashboard.MigrationTool.exe*** from the console, the first step will be to indicate the provider type for both databases

```
C:\Users\██████████\Desktop\DashboardMigrationTool>Dashboard.MigrationTool.exe
You are about to migrate dashboards from Core to Dashboard microservice
Which provider do you want to use for both databases?
1. SQLite
2. SQL Server
```

By pressing enter, you will be prompted to enter the connection string for the source DB

```
C:\Users\██████████\Desktop\DashboardMigrationTool>Dashboard.MigrationTool.exe
You are about to migrate dashboards from Core to Dashboard microservice
Which provider do you want to use for both databases?
1. SQLite
2. SQL Server
2
What database do you want to use for Core?
Enter the SQL Server connection string:
Data Source=VMSQL2016DEV;Initial Catalog=DBROWSER_DEV;Persist Security Info=True;User ID=██████████;Password=██████████;TrustServerCertificate=True
```

At this point you will need to indicate the connection string of the destination database

```

C:\Users\ [redacted] \Desktop\DashboardMigrationTool>Dashboard.MigrationTool.exe
You are about to migrate dashboards from Core to Dashboard microservice
Which provider do you want to use for both databases?
1. SQLite
2. SQL Server
2
What database do you want to use for Core?
Enter the SQL Server connection string:
Data Source=VMSQL2016DEV;Initial Catalog=DBROWSER_DEV;Persist Security Info=True;User ID=[redacted];Password=[redacted];TrustServerCertificate=True
What database do you want to use for Dashboard?
Enter the SQL Server connection string:
Data Source=VMSQL2016DEV;Initial Catalog=DBROWSER_DEV;Persist Security Info=True;User ID=[redacted];Password=[redacted];TrustServerCertificate=True

```

If the system does not detect any errors at this stage, the migration operation will begin.

```

C:\Users\ [redacted] \Desktop\DashboardMigrationTool>Dashboard.MigrationTool.exe
You are about to migrate dashboards from Core to Dashboard microservice
Which provider do you want to use for both databases?
1. SQLite
2. SQL Server
2
What database do you want to use for Core?
Enter the SQL Server connection string:
Data Source=VMSQL2016DEV;Initial Catalog=DBROWSER_DEV;Persist Security Info=True;User ID=[redacted];Password=[redacted];TrustServerCertificate=True
What database do you want to use for Dashboard?
Enter the SQL Server connection string:
Data Source=VMSQL2016DEV;Initial Catalog=DBROWSER_DEV;Persist Security Info=True;User ID=[redacted];Password=[redacted];TrustServerCertificate=True
Starting the Transfer Process.
Retrieving Dashboards from Core.
Found 66 Dashboards from Core.
Migrating Dashboards.
Migrating Dashboard with Id = 22.
Transforming DashboardConfig to Items.
Transformed 1 Items.
Transforming Dashboard to ConfigNodes.
Transformed 0 ConfigNodes.
Migrating Dashboard with Id = 23.
Transforming DashboardConfig to Items.
Transformed 0 Items.
Transforming Dashboard to ConfigNodes.
Transformed 0 ConfigNodes.
Migrating Dashboard with Id = 24.
Transforming DashboardConfig to Items.
Transformed 1 Items.

```

In the event of errors, all previously performed operations will be rolled back, so that it is possible to modify the configuration file and relaunch the entire procedure.