

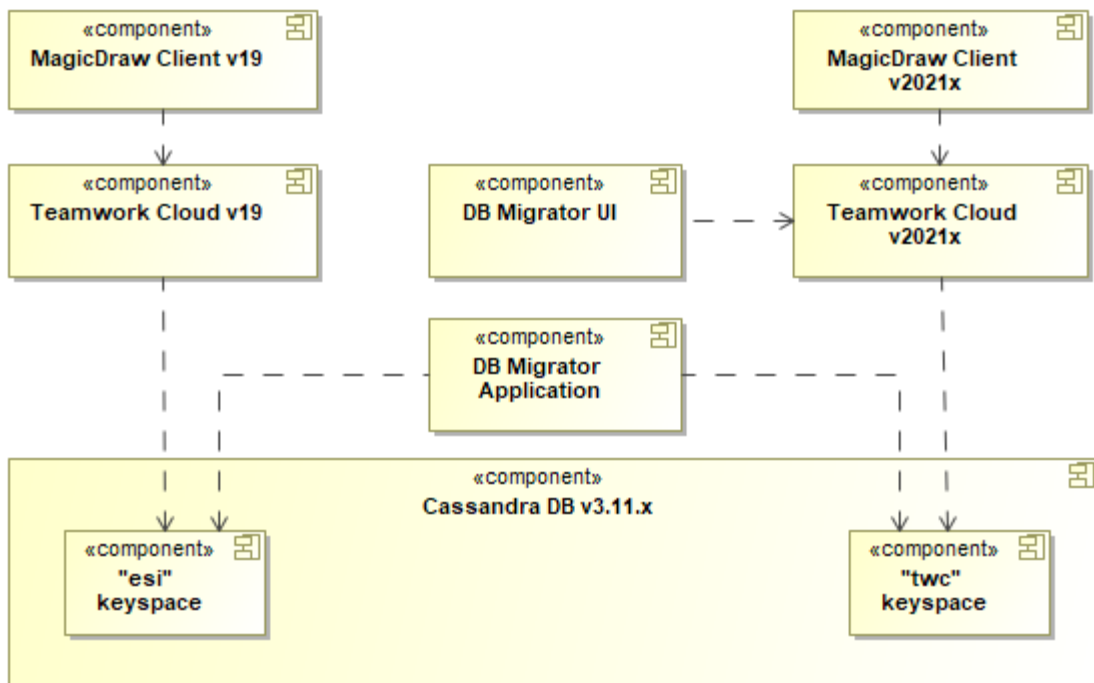
# Migrating database

After upgrading Teamwork Cloud to a new version, you have to migrate its database as well. The database migration tools support incremental migration, which means that selected resources are migrated version by version. During migration, new resources and partially migrated resources are still accessible in the source database, therefore users can work with them avoiding downtime. To learn more about different approaches you can use to migrate the Teamwork Cloud database, see [Migration strategies](#).

For database migration, two migration tools are used:

- **The command-line migration tool** (to be deployed on the source database server). Upon initial launch, this tool creates a new database schema and migrates all non-model data (users, roles, etc.).
- **The UI migration tool** (to be deployed on any machine with GUI support). The UI migration tool provides visual migration control and is used to migrate all resources.

The following figure illustrates how these migration tools work.



*This schema displays how database migration tools work.*



## Important

- It is highly recommended not to work with the upgraded version of Teamwork Cloud before initial database migration, except for setting up a licence with the default Administrator user.



## Migration prerequisites

- Do not alter user permissions on the target Teamwork Cloud server during database migration. Otherwise, original user permissions may not be migrated from the source to the target Teamwork Cloud server correctly.



The migration tool must be started using Java 11x version.

1. On the source database server, download and extract the `migrationtool_<version_number>_no_install.zip` file.
2. Run the `migrationtool_<version_number>_no_install/MigrationTool/migrator` file for Linux (if you are working on Windows, run the `migrationtool_<version_number>_no_install/MigrationTool/migrator.bat` file).

Before starting Teamwork Cloud database migration, make sure the following requirements are met:



#### Command-line migration tool

Upon initial launch, this tool creates a new database schema within the Teamwork Cloud keyspace and migrates all non-model data (users, roles, etc.). If non-model data is changed in the source database between different resource migration iterations, e.g., new users are created or new roles are assigned, these changes are migrated to the target database after each resource migration. If non-model data is manually changed in the source database, these changes are not migrated. You can migrate the Teamwork Cloud database only from versions 19.0 SP3 and 19.0 SP4 (schema version #26). The schemas of the databases of earlier versions are not suitable for migration. If you want to migrate a database of an earlier version, first migrate it to version 19.0 SP3 or 19.0 SP4. For more information, see [Migrating data to version 19.0 SP3](#) or [Migrating data to version 19.0 SP4](#).

3. Do not migrate a database of an earlier version if it has been manually changed.
4. Run the migration tool. `<version_number> ui/linux/migrationtool ui/migrator` file for Linux. (For Windows, run the migration tool `<version_number> ui-win/migrationtool ui/migrator` file.) For more information, see [Migrating data to version 19.0 SP3](#) or [Migrating data to version 19.0 SP4](#).



You can also run the files from your desktop machine which has access to the Teamwork Cloud.

version of Teamwork Cloud.

5. When the resource migration wizard opens, enter the user name, password, and server name of the target version of Teamwork Cloud and click **Next**.

If a license is not applied, the migrator cannot establish a connection with Teamwork Cloud.

Migrate Resources to Version 2021x

Select the resources to migrate

Login to TWCloud 2021x by specifying server name and user credentials.

● 1. Login to TWC 2021x  
○ 2. Migrate Resources

User name:

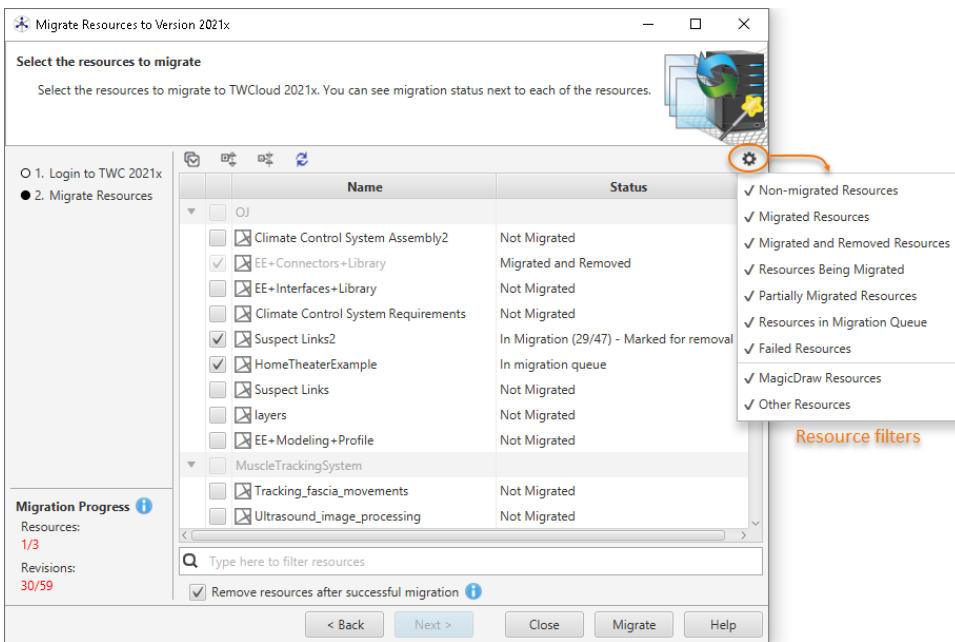
Password:

Server name:

☒ Use secured Connection (SSL)

< Back Next > Close Migrate Help

6. Select the resources you want to migrate.



### Migration statuses

On the left side of the resource migration wizard, you can see the migration status of each resource. Migration statuses can be the following:

7. Do one of the following:
  - **Not Migrated** - the resource has never been selected for migration.
  - **Clear the Remove resources after successful migration check-box** to migrate all versions of the selected resources to the target database, but leave them available in the source database as well. All new resource versions created in the source database after migration can be migrated during the next iteration.
  - **Partially Migrated** - Working with such resources in the migrated database will no longer be possible.
  - **In migration queue** - the resource is marked for migration and is waiting in the migration queue.

If you choose the migration option where the **Remove resources after successful migration** check-box is not selected, the migrated resources will not be visible in the migrated database. However, users will be able to continue working with them in the source database.

8. Click the **Migrate** button.
9. Once the resources are migrated, close the resource migration wizard.
10. If you chose the incremental migration approach (see [Migration strategies](#)), repeat steps 3 to 8 for every following migration iteration.

### Related pages

- **Failed** - resource migration failed. You can look for the reason for the failure in the migration tool log files. The migration of failed resources is re-attempted during the next migration iteration.
- [Migration strategies](#)
- [Troubleshooting](#)

To filter resources by their status or type, click  as shown in the figure above.