Migrate Proline-Zero from a version (N-1) to a newer version(N)

Structure

Structure of Proline-Zero application, for example version 2.0.1, is as following:

Proline-Zero-2.0.1		Nom	Modifié le	Type	Taille
data		.prolinestudio	15/06/2021 09:33	Dossier de fichiers	
lib		databases	16/11/2021 15:41	Dossier de fichiers	
pgsql		fasta	12/04/2019 15:46	Dossier de fichiers	
PM-SequenceRepository-0.8.0		mascot	09/11/2021 14:34	Dossier de fichiers	
Proline-Admin-GUI-0.8.1		mzdb	23/11/2021 10:48	Dossier de fichiers	
Proline-Cortex-2.0.1		tmp	23/11/2021 10:49	Dossier de fichiers	
ProlineStudio-2.0.1					

There are the required modules (PM-SequenceRepository, Proline-Admin, Proline-Cortex, Proline-Studio and postgresl server pgsql) and a folder for preferences, work files and data (projects databases, mascot result files etc…)

New installation

Proline-Zero is an all-in-one solution distributed as a zip file. A "new installation" simply involves extracting this zip file and thus creating a new hierarchy …

Example for version 2.1.2

Proline-Zero-2.1.2		Nom	Modifié le	Type	Taille
data		.prolinestudio	24/03/2022 14:33	Dossier de fichiers	
lib		databases	24/03/2022 14:33	Dossier de fichiers	
pgsql		fasta	16/12/2021 14:35	Dossier de fichiers	
PM-SequenceRepository-2.1.2		mascot	26/02/2020 15:38	Dossier de fichiers	
Proline-Admin-GUI-2.1.2		mzdb	16/12/2021 14:35	Dossier de fichiers	
Proline-Cortex-2.1.2		tmp	24/03/2022 14:32	Dossier de fichiers	
ProlineStudio-2.1.2					

Data migration

In order to get back your previous data in a new installation, some copy will be necessary **BEFORE** running the new Proline-Zero. If you have already started the new Proline-Zero see "Specificities" below.
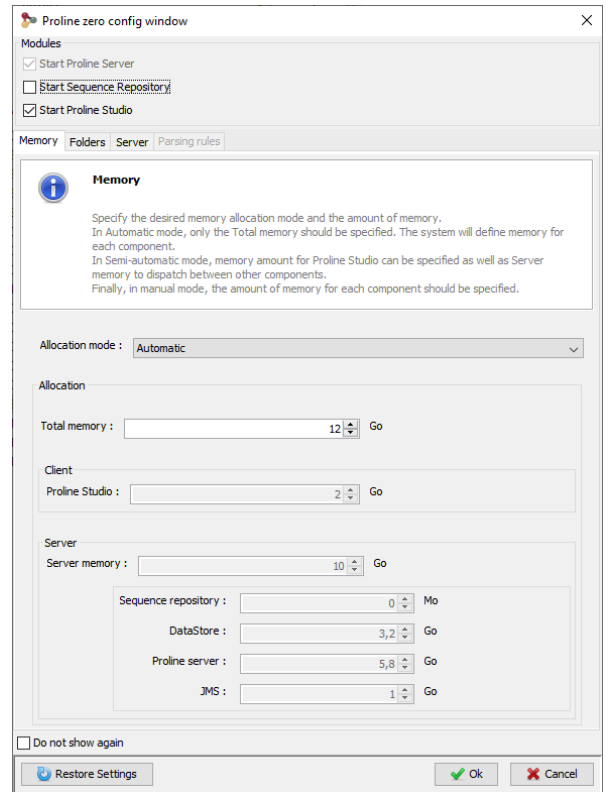
To migrate data, you will have to:

- Copy some files (preferred than a move in a first step in case an error occurs) from directory
  <Proline-Zero-Version_N-1>\data to *<Proline-Zero-Version_N>\data*
  - Folder *…\data\databases* in *…\data*
  - Folders *..\data\fasta* and *..\data\mzdb* in *…\data*

- o Files *…\data\mascot*.** in *…\data\mascot* mascot may contain subfolders which should be copied as well.
  - o Copy and overwrite file *…\data\.prolinestudio\config\Preferences.properties* in *…\data\.prolinestudio\config*
- ● NOTE: data\tmp folder and other files in data\.prolinestudio* **should not** be **copied**

- ● **<u>NOTE</u>**: A graphical interface allows you to set almost all parameters from *proline_launcher.config*, so it's best to change your settings again through this interface. If you prefer to modify them manually :
  - o If you have changed default Proline-Zero configuration you will have to copy these specific parameters from *<Proline-Zero-Version_N>\proline_launcher.config* in new file *<Proline-Zero-Version_N>\proline_launcher.config*
    - o You **CAN NOT** replace new proline_launcher.config with previous one as modules versions are specified in this file and some parameter names should have been modified.
    - o Parameters names which may have change (depending on versions)
      - ▪ server_max_memory ⬜ total_max_memory
      - ▪ postgresql_port ⬜ data_store_port : should not be changed without a good reason ;)
    - o New parameters
      - ▪ studio_max_memory : to specify memory for the GUI application
      - ▪ adjust_memory: should be kept to on (or commented). A new memory management will be available since Proline-Zero 2.2.0

- ● Still in *<Proline-Zero-Version_N>\proline_launcher.config*,
  - o To force migration of all needed database set parameter "force_datastore_update = on" for the first time you will run Proline-Zero. Then this parameter can be set to off again.

Specificities and warning:

- ● If you **have already run the new Proline-Zero** !!
  - o In this case, project databases have been initialized. You will need to delete it before copying the previous databases. **It is NOT possible to merge databases** from two Proline-Zero to keep projects from both installations!
    - ▪ Delete (or rename) *<Proline-Zero-Version_N>\data\databases\pg* before you copy this folder from the previous version (see above).

- ● You want to migrate data from **Proline-Zero 2.0.1 (or less) to Proline-Zero 2.1.0 (or higher).** The postgresql server version (pgsql) is not the same. In order to be able to read databases created in Proline 2.0.1 in the new Proline-Zero you will have to use previous postgresql server
  - o Rename folder *<Proline-Zero-Version_N>\pgsq*l to *<Proline-Zero-Version_N>\pgsql_9.6*
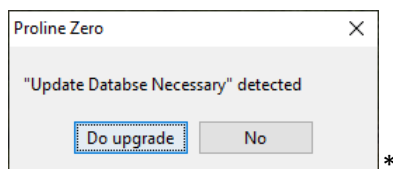
o   Copy folder *<Proline-Zero-Version_N-1>\pgsql* to *<Proline-Zero-Version_N>*

- You want to migrate data from **Proline-Zero 2.1.3 (or less) to Proline-Zero 2.2.0 (or higher).**
  The Proline-Zero configuration file, *proline_launcher.config*, is not structured in the same way. The new version of Proline-Zero now displays a GUI for configuration. You will have to report previous values in this display.

⬛BEFORE RUNNING new Proline-Zero, be sure the application structure is as expected ….

Running new version

Once all modifications and copy have been done, you can launch the new version of Proline-Zero. Depending on the previous and new version, a pop-up should appear indicating that an update is necessary. You should click "Do upgrade" in order to be able to launch Proline-Zero.

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You should recover your projects and data!