Database Management from the Console

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Database Management from the Console

We are working on the translation of the Pandora FMS documentation. Sorry for any inconvenience.

The core of the Pandora FMS system is its database. It stores all the data collected by the monitored systems, the configuration of the agents, the alerts, the events, the audit data, the different users and their data. That is, all the data in the system.

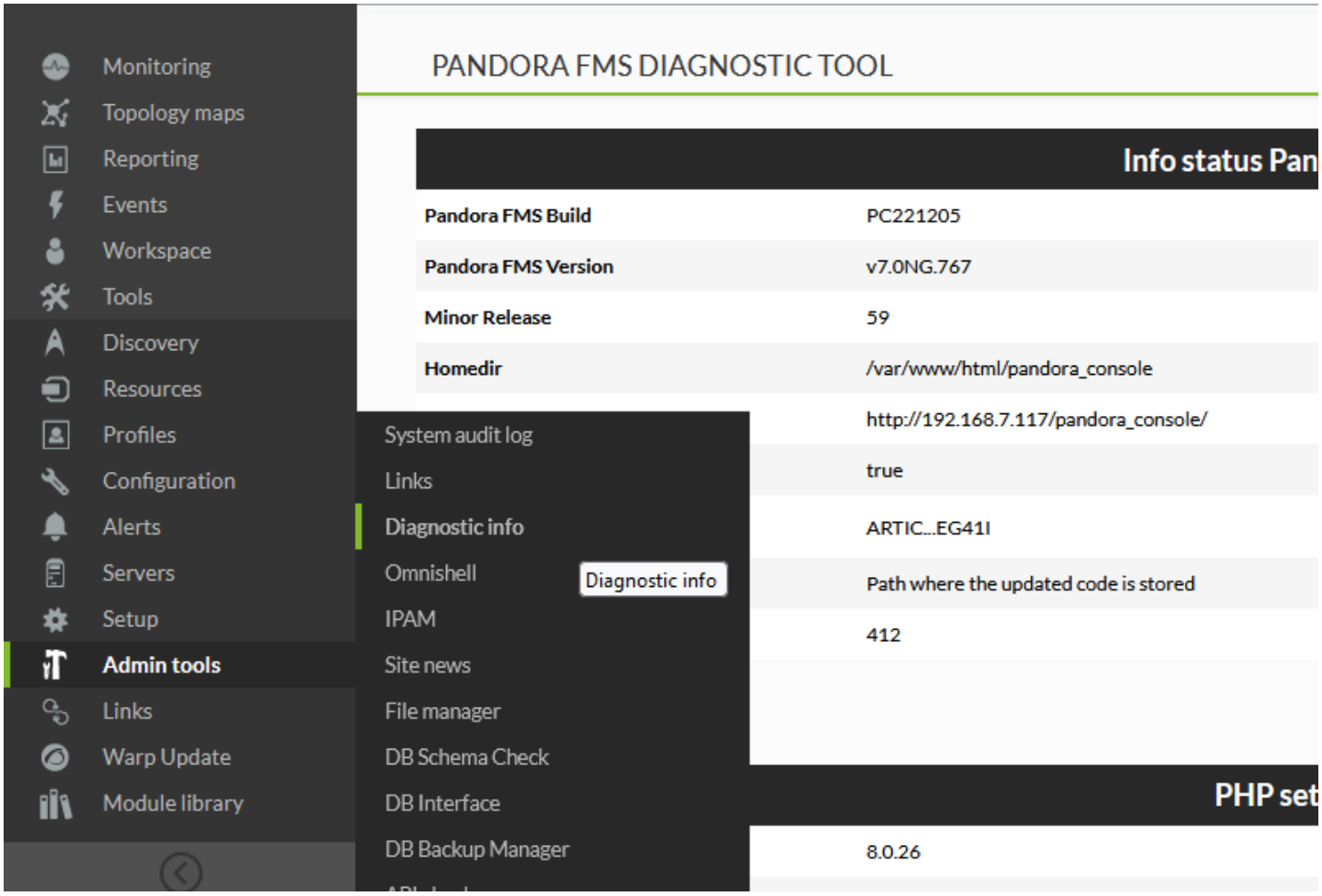
Efficiency and reliability is vital for the proper functioning of Pandora FMS, so maintaining the database is of the utmost importance.

To perform database maintenance on a regular basis, administrators can use standard MySQL commands from the command line or they can manage the Database from the Console without much knowledge of MySQL.

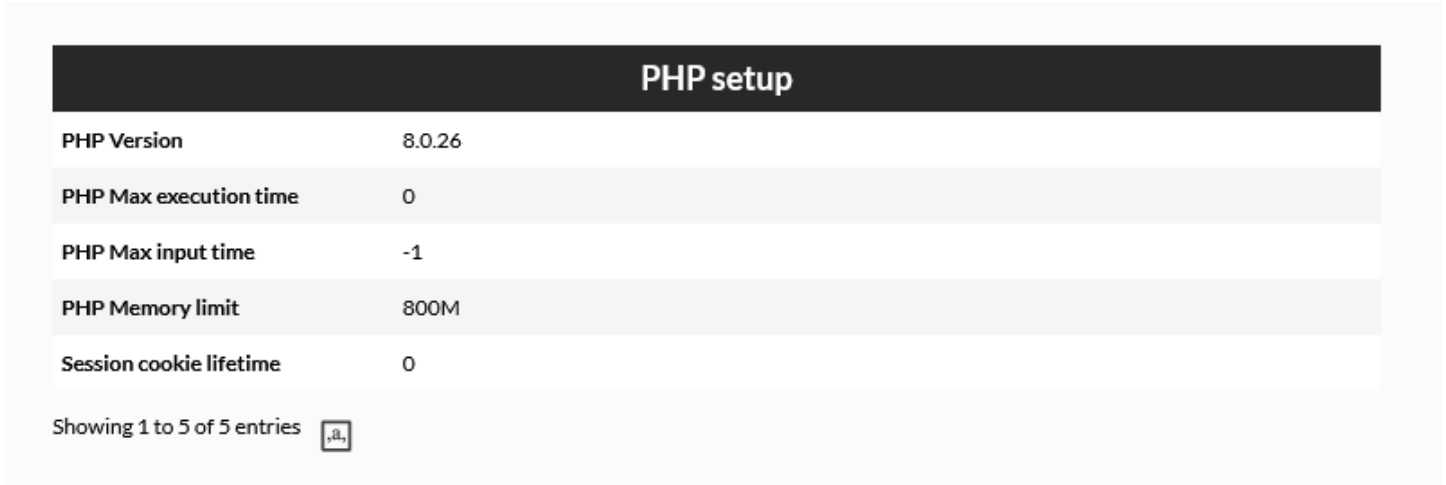
There are several extensions that you can use from the Console to view information about the database.

Diagnostic tool

In this section we can view general information on the Pandora FMS installation. It is worth noting the large amount of information obtained from the database, where you can see the recommended parameters, as well as warnings about existing values that need to be changed.



For the 767 version it is composed of 14 sections, some of them are the following:



Database size stats

Total amount of agents	23
Total modules	26
Total groups	15
Total module data records	1109
Total agent access record	60
Total amount of events	70
Total traps	0
Total users	7
Total sessions	24

Showing 1 to 9 of 9 entries

Database health status

Total unknown agents	1
Total not-init modules	1
Pandora DB Last run	30 minutes 36 seconds Ago

Showing 1 to 3 of 3 entries

Database status info

DB Schema Version (first installed)	6.0dev
DB Schema Version (actual)	6.0RC1
DB Schema Build	PD150908
DB Size	7.469 M

Showing 1 to 4 of 4 entries

MySQL Performance metrics

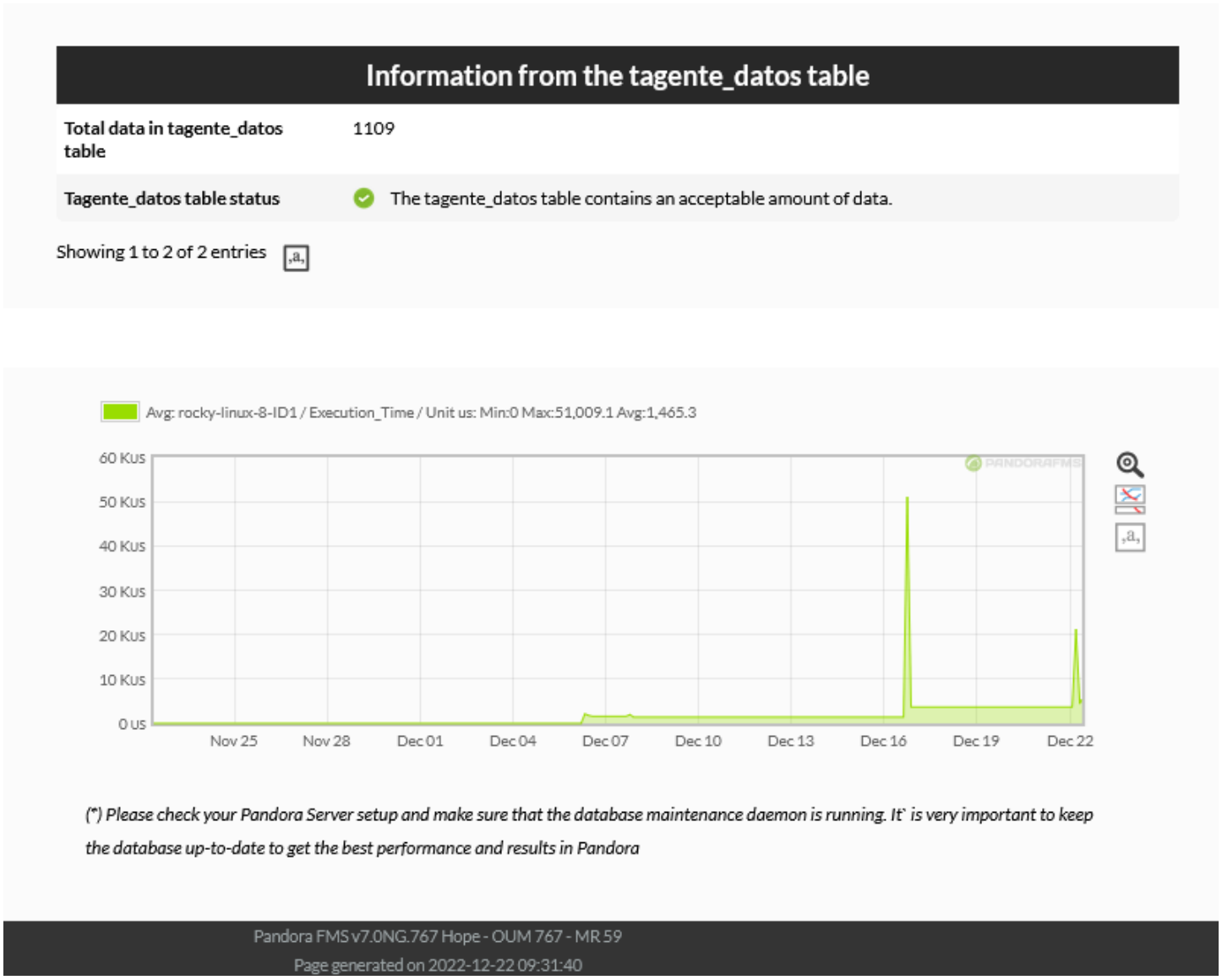
InnoDB buffer pool size	2048	It has to be 40% of the server memory not recommended to be greater or less
InnoDB file per table	ON	Recommended ON
InnoDB flush log at trx-commit	0	Recommended Value 2
InnoDB lock wait timeout	90	Min. Recommended Value 90s
InnoDB log buffer size	16	Min. Recommended Value 16M
InnoDB log file size	64	Min. Recommended Value 64M
Maximun allowed packet	64	Min. Recommended Value 32M
Maximun connections	100	Min. Recommended Value 90 conections
Query cache limit	0.25	Min. Recommended Value 8M
Query cache min-res-unit	2	Min. Recommended Value 2M
Query cache size	64	Min. Recommended Value 32M
Query cache type	ON	Recommended ON
Read buffer size	128	Min. Recommended Value 32K
Read rnd-buffer size	128	Min. Recommended Value 32K
Sort buffer size	128	Min. Recommended Value 32K
Sql mode		Must be empty
Thread cache size	8	Min. Recommended Value 8
Thread stack	256	Min. Recommended Value 256

Showing 1 to 18 of 18 entries

Tables fragmentation in the Pandora FMS database

Tables fragmentation (maximum recommended value)	10%
Tables fragmentation (current value)	0.00%
Table fragmentation status	

Showing 1 to 3 of 3 entries

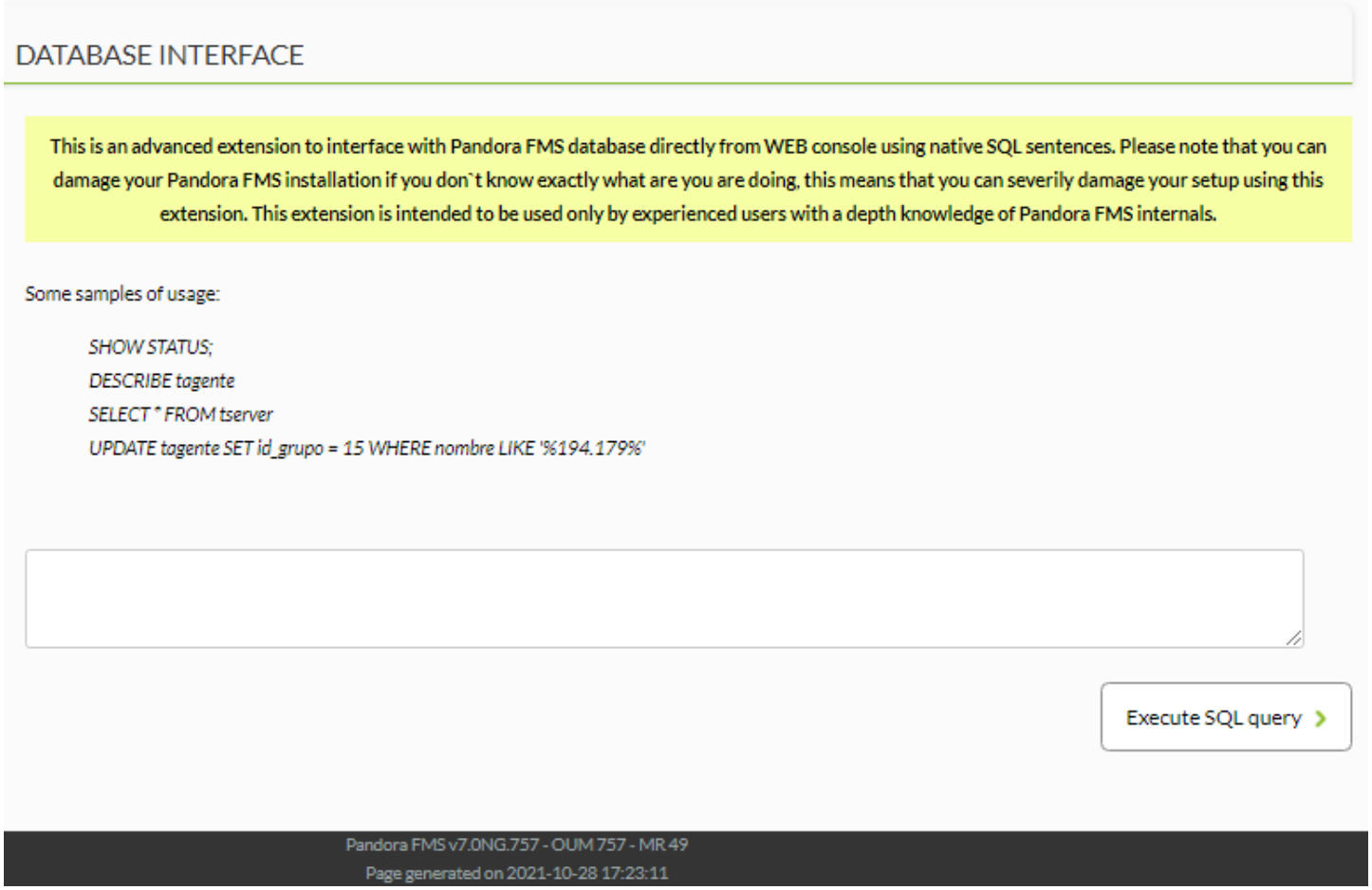


DB Interface

This is an extension that allows you to execute commands on the database and see the result. It is an advanced tool that should only be used by people who know SQL and the Pandora FMS database schema in sufficient detail.

Improper use of this tool can destroy data or render the application permanently inoperative. Use it with caution.

The extension is accessed from the Admin tools menu → DB interface:



Type the command in the blank field and click Execute SQL.

DB Schema Check

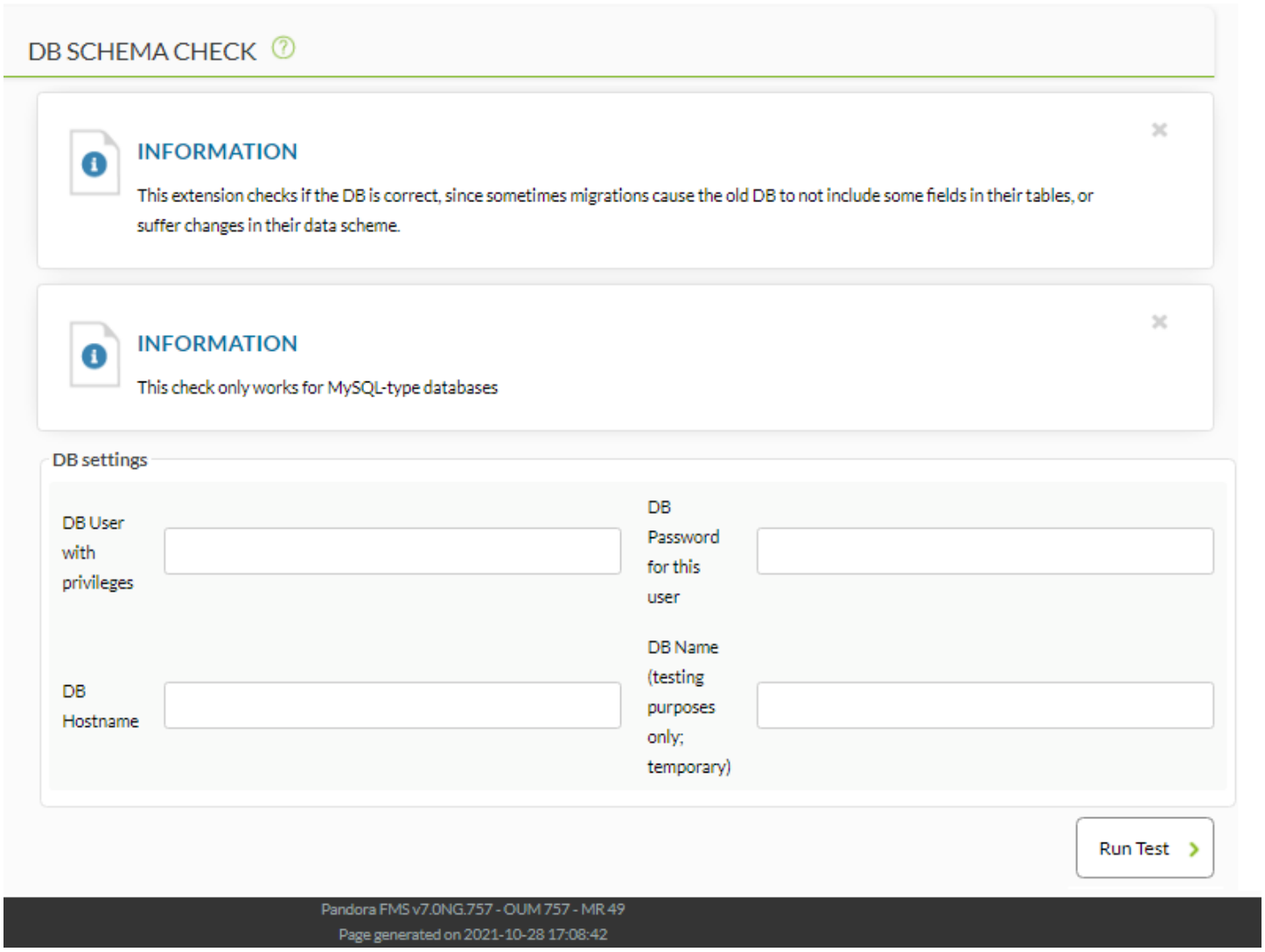
This check can only be performed on MySQL Databases.

This is an extension that allows checking the structural differences between the established Pandora FMS database, and a standard scheme to compare possible errors.

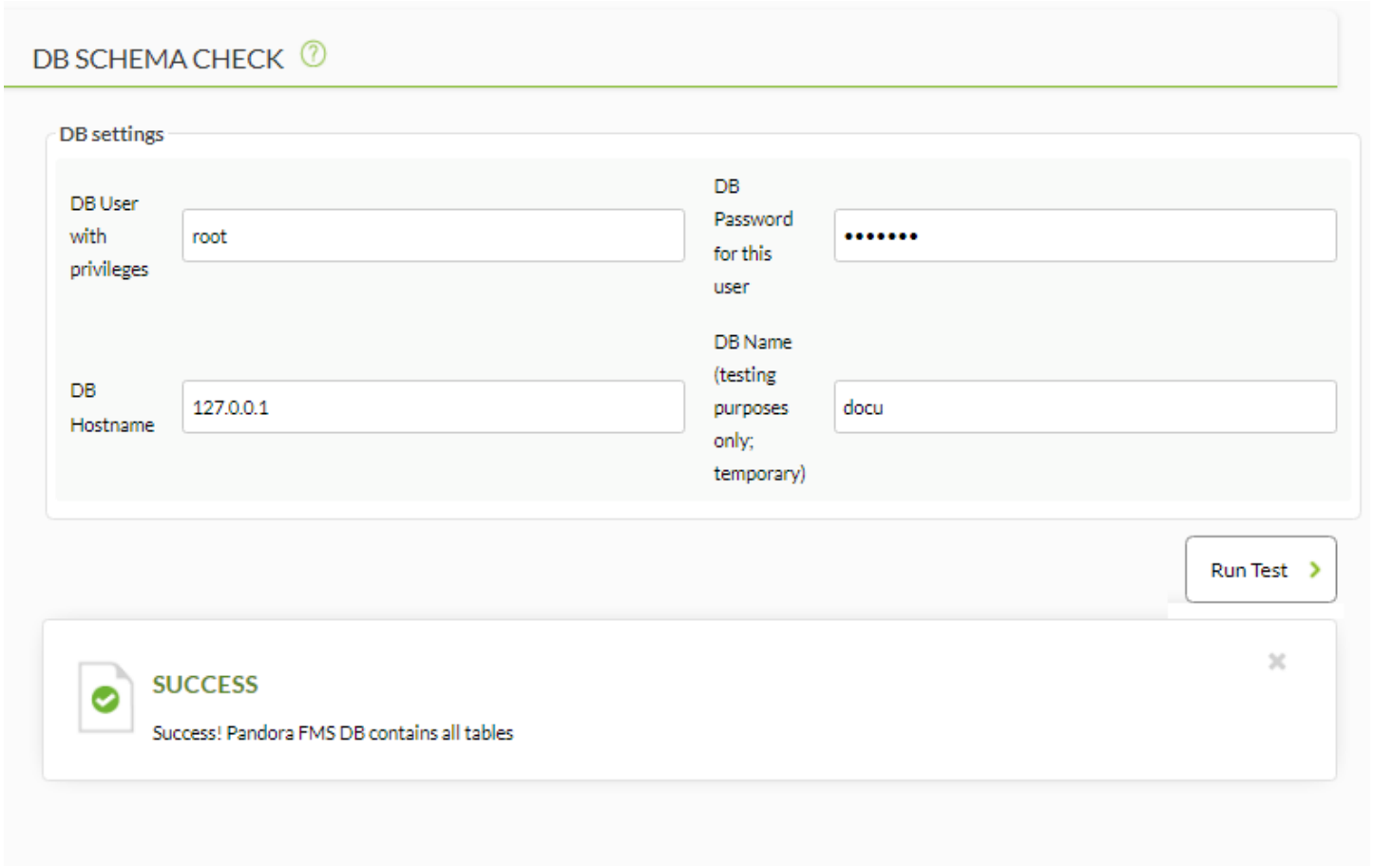
It is recommended to use this extension to check if a
database migration was successful

The operation is as follows:

- A temporary database is created with the structure that the installation database must have (different depending on the installed version).
- The database created is compared with the database referenced in the installation.
- The temporary database is deleted.



Enter your database access data and click the Run test button. For example:



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