



# Database Management from the Console



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4/06/10 14:34



# 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.

**PANDORA FMS DIAGNOSTIC TOOL**

**Info status Pan**

|                            |                                       |
|----------------------------|---------------------------------------|
| <b>Pandora FMS Build</b>   | PC221205                              |
| <b>Pandora FMS Version</b> | v7.0NG.767                            |
| <b>Minor Release</b>       | 59                                    |
| <b>Homedir</b>             | /var/www/html/pandora_console         |
|                            | http://192.168.7.117/pandora_console/ |
|                            | true                                  |
|                            | ARTIC...EG41I                         |
|                            | Path where the updated code is stored |
|                            | 412                                   |

**Diagnostic info**

- System audit log
- Links
- Diagnostic info**
- Omnishell
- IPAM
- Site news
- File manager
- DB Schema Check
- DB Interface
- DB Backup Manager

**PHP set**

|                                |        |
|--------------------------------|--------|
| <b>PHP Version</b>             | 8.0.26 |
| <b>PHP Max execution time</b>  | 0      |
| <b>PHP Max input time</b>      | -1     |
| <b>PHP Memory limit</b>        | 800M   |
| <b>Session cookie lifetime</b> | 0      |

Showing 1 to 5 of 5 entries

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

**PHP setup**

|                                |        |
|--------------------------------|--------|
| <b>PHP Version</b>             | 8.0.26 |
| <b>PHP Max execution time</b>  | 0      |
| <b>PHP Max input time</b>      | -1     |
| <b>PHP Memory limit</b>        | 800M   |
| <b>Session cookie lifetime</b> | 0      |

Showing 1 to 5 of 5 entries

## 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 conexions   |
| 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

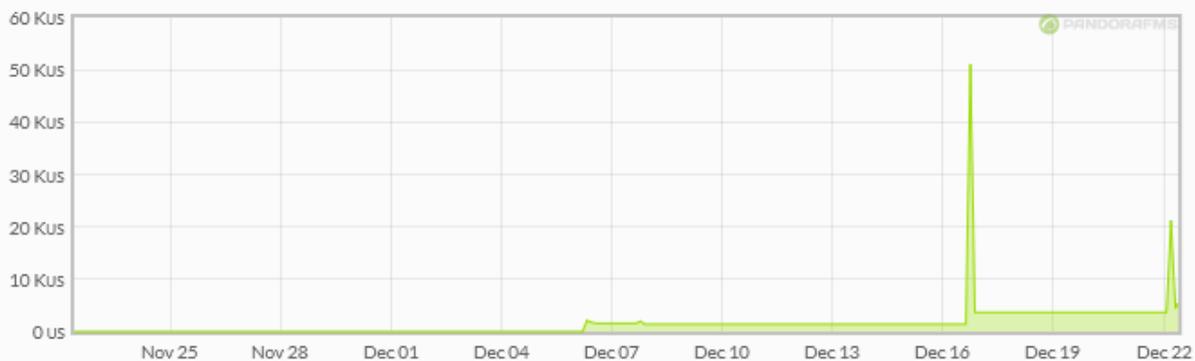
## Information from the tagente\_datos table

Total data in tagente\_datos table 1109

Tagente\_datos table status ✔ The tagente\_datos table contains an acceptable amount of data.

Showing 1 to 2 of 2 entries a

■ Avg: rocky-linux-8-ID1 / Execution\_Time / Unit us: Min:0 Max:51,009.1 Avg:1,465.3



*(\*) Please check your Pandora Server setup and make sure that the database maintenance daemon is running. It is very important to keep the database up-to-date to get the best performance and results in Pandora*

## 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:

## DATABASE INTERFACE

This is an advanced extension to interface with Pandora FMS database directly from WEB console using native SQL sentences. Please note that you can damage your Pandora FMS installation if you don't know exactly what are you are doing, this means that you can severely damage your setup using this extension. This extension is intended to be used only by experienced users with a depth knowledge of Pandora FMS internals.

Some samples of usage:

```
SHOW STATUS;  
DESCRIBE tagente  
SELECT * FROM tserver  
UPDATE tagente SET id_grupo = 15 WHERE nombre LIKE '%194.179%'
```

Execute SQL query >

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.

## DB SCHEMA CHECK ?



### INFORMATION



This extension checks if the DB is correct, since sometimes migrations cause the old DB to not include some fields in their tables, or suffer changes in their data scheme.



### INFORMATION



This check only works for MySQL-type databases

### DB settings

DB User  
with  
privileges

DB  
Password  
for this  
user

DB  
Hostname

DB Name  
(testing  
purposes  
only;  
temporary)

Run Test >

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

## DB SCHEMA CHECK ?

### DB settings

DB User  
with  
privileges

DB  
Password  
for this  
user

DB  
Hostname

DB Name  
(testing  
purposes  
only;  
temporary)

Run Test >



### SUCCESS

Success! Pandora FMS DB contains all tables



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