

MilWare – Military Database System 1.0

Author: David Čadek

Date: January 9, 2026

TEST SCENARIO No. 1: Installation and First Run

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1. Test Objective

The goal of this scenario is to perform a clean installation of the application on a new computer, configure the database environment, import the data structure, and verify that the application communicates with the database.

2. Prerequisites (Requirements)

- Operating System Windows 10/11.
- Installed **Python 3.8** or newer.
- Installed **MySQL Server** and **MySQL Workbench**.
- MilWare project source codes.

3. Detailed Installation Procedure

Step 1: Verifying Database Status

1. Launch the **MySQL Workbench** application.
2. On the home screen, you should see a connection (usually "Local instance").
3. Click on it.
4. If asked for a password, enter it (if you are a student, log in using the school connection password: **student**).
5. **Check:** If the SQL query editor (Query tab) opens, the database is running correctly.

Step 2: Database Structure Import (via Workbench)

1. In the top menu of Workbench, click on **File** -> **Open SQL Script...** (or press Ctrl+Shift+O).
2. In the explorer window, locate the MilWare project folder, open the sql subfolder, and select the file **init_db.sql**. Open it.
3. The SQL code will load in the window. Above this code, find the **yellow lightning bolt** icon (Execute) and click on it.
4. In the bottom "Output" window, check that the lines have **green checkmarks**.
5. In the left "Navigator" panel, right-click in the empty space within the "Schemas" section and select **Refresh All**.
6. **Expected Result:** A new database named **milware_db** appears in the Schemas list.
7. Repeat this process with file views_db (**important**)

Step 3: Preparing the Python Environment

1. Open the MilWare project folder in Windows File Explorer.
2. Click into the address bar, type cmd, and press Enter (a black command prompt window will open).
3. Enter the command to install libraries:

Bash

```
pip install -r requirements.txt
```

Step 4: Application Configuration (Important!)

1. In the project folder, create a copy of the file config.example.json and rename it to **config.json**.
2. Open config.json in a text editor.
3. **ATTENTION:** You must fill in the password you use to log in to MySQL Workbench here!

JSON

```
{  
  "host": "localhost",  
  "user": "root",  
  "password": "student",  
  "database": "milware_db"  
}
```

4. Save the changes.

Step 5: Launching the Application

1. In the command prompt, enter:

Bash

```
python src/main.py
```

4. Test Evaluation

The test is **SUCCESSFUL** if:

1. The application starts and displays the introductory logo "MILWARE SYSTEM".
2. The main menu is displayed.
3. After selecting option **1 (Data Output)** -> **1 (Soldiers)**, the application does not print a connection error but displays a table or list of soldiers (even if empty).

Possible Errors and Solutions:

- **Access denied for user 'root'@'localhost':** You have the wrong password in config.json. It must be the same one you use to log in to Workbench.
- **Unknown database 'milware_db':** Step 2 (SQL Import) was not performed correctly. Try clicking the lightning bolt icon in Workbench again.