medDream

HTML 5 ZERO-FOOTPRINT DICOM VIEWER

QUICK START GUIDE

Windows x64 MedDream PACS Premium

Document version 1.00

This guide describes the basics of installing and configuring web-based DICOM Viewer for PACS server. More information is provided in the full Install Manual, download its latest version: Install Manual.

IHE PASSED XDS-I.b FDA CLEARED K222320 510(k) CE 0197 Class IIb certified

ABOUT SOFTWARE

This guide describes MedDream DICOM Viewer deployment on Windows x64. MedDream PACS Premium software package contains all the software required to run MedDream Viewer on your server.

The Viewer can be integrated into HIS/RIS/EHR/EMR, Telemedicine, Patient Portals, National Systems, CAD and AI algorithms. MedDream Universal Enterprise Viewer can be installed on premises, in any virtual environment or on cloud.

MedDream is designed to aid medical professionals in day-to-day decision-making process. MedDream is a cost effective certified solution perfect for software vendors, integrators, OEM's and national system providers.

PREREQUISITES

✓ Check User Manual section: "MedDream viewing functionalities minimal hardware requirements".

INSTALLATION FOR THE FIRST TIME

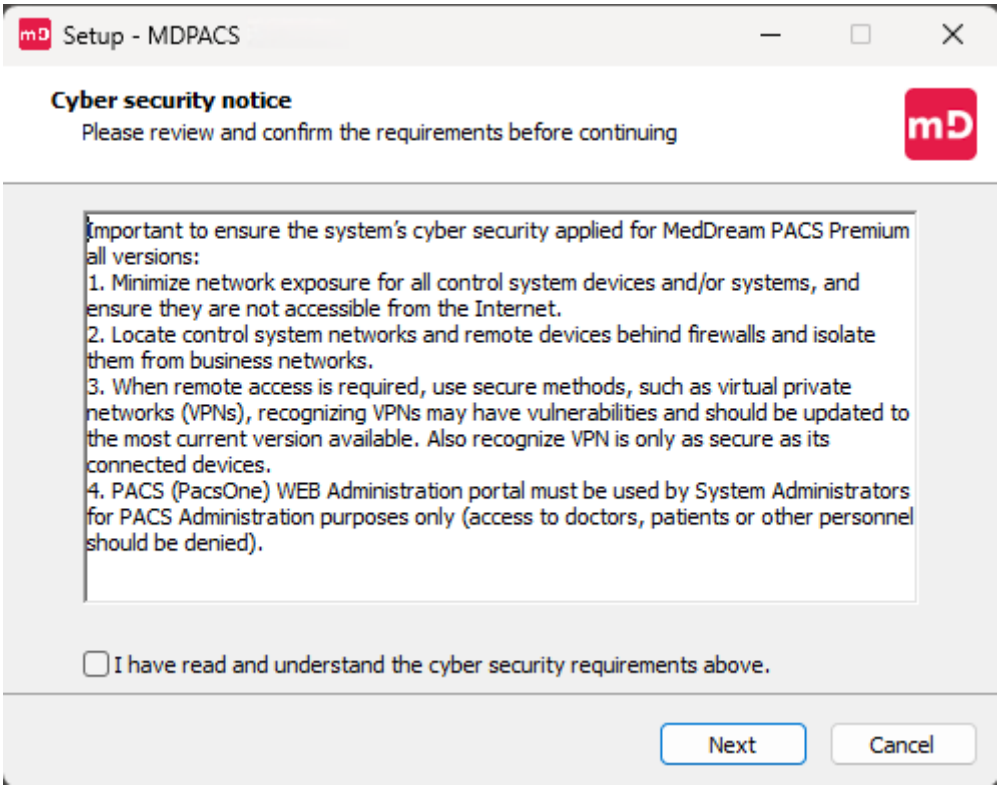
1

- Install all in one package (MedDream DICOM Viewer, MedDream PACS and additional programs):

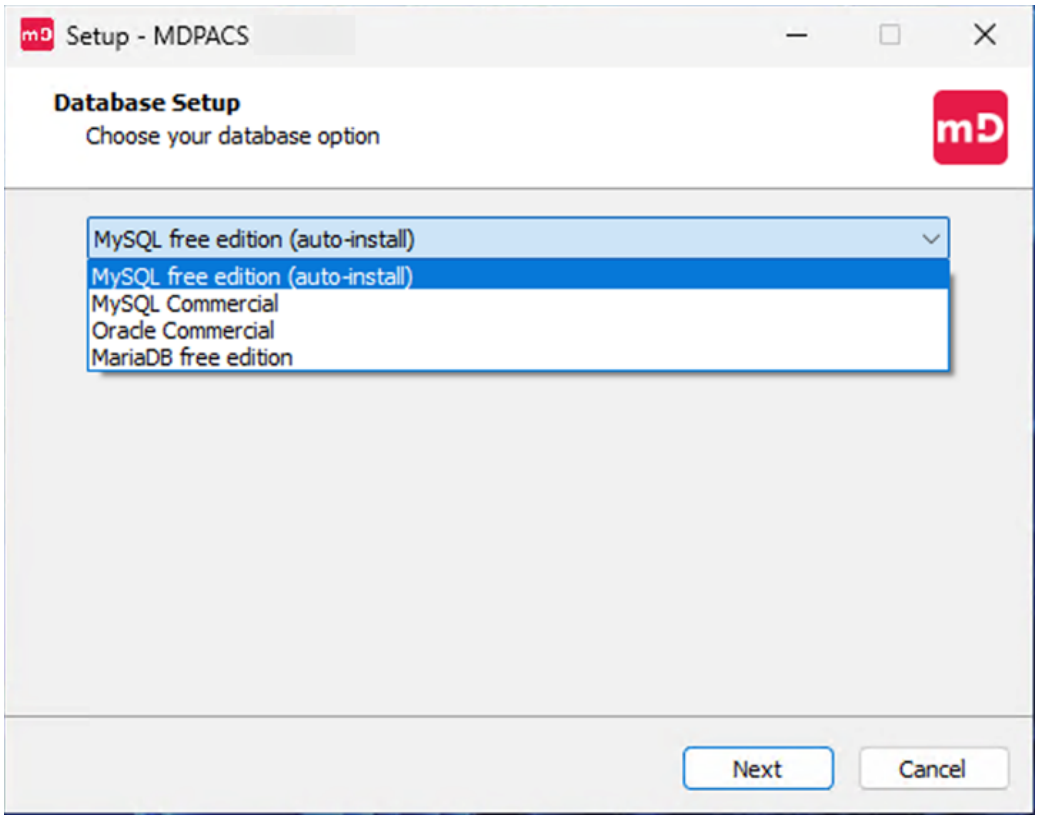
  Note: The MedDream PACS Premium installation setup does not include a database within the installation package. **Users must either:**
  1. Deploy a MySQL (or compatible MySQL engine) database independently before beginning the installation. If you already have a database installed and wish to deploy MedDream PACS Premium, please get in touch with support@meddream.com for assistance
  2. Choose the option within the installation process to download and install the MySQL free edition database automatically. (Please note: internet access is mandatory for this option.) The next section will provide detailed instructions on how to proceed with the MedDream PACS Premium deployment using this option, where the Setup program automatically downloads and installs the MySQL free edition database.

- Download the latest Windows version of the package from the medDream website: https://meddream.com/products/meddream-pacs-server/#downloads

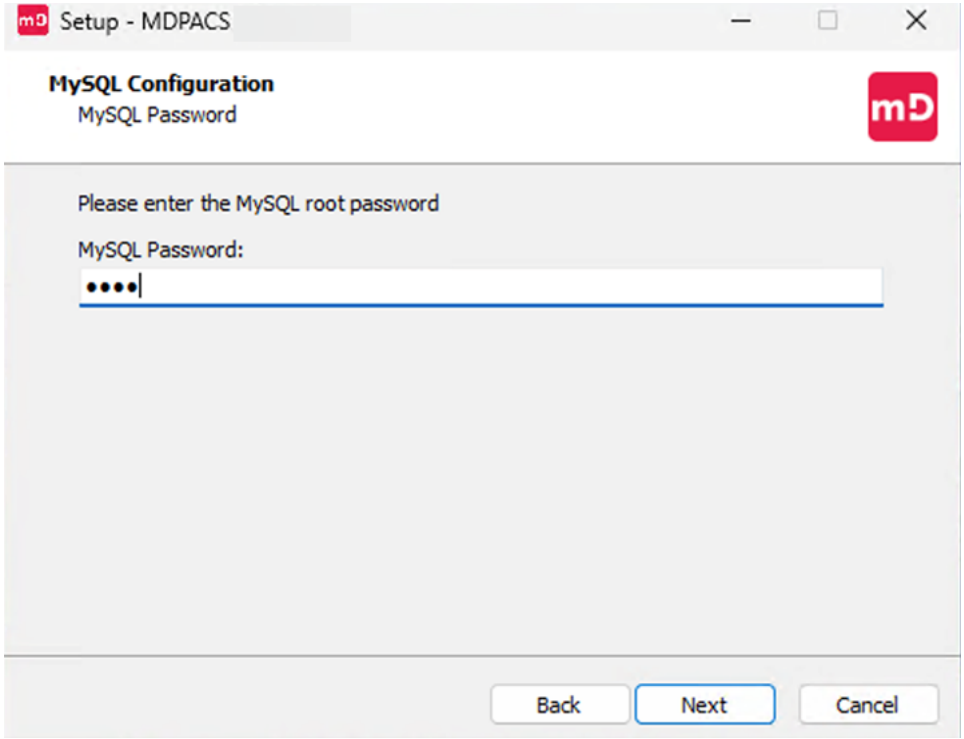
- Run MedDream-PACS-Premium.exe:



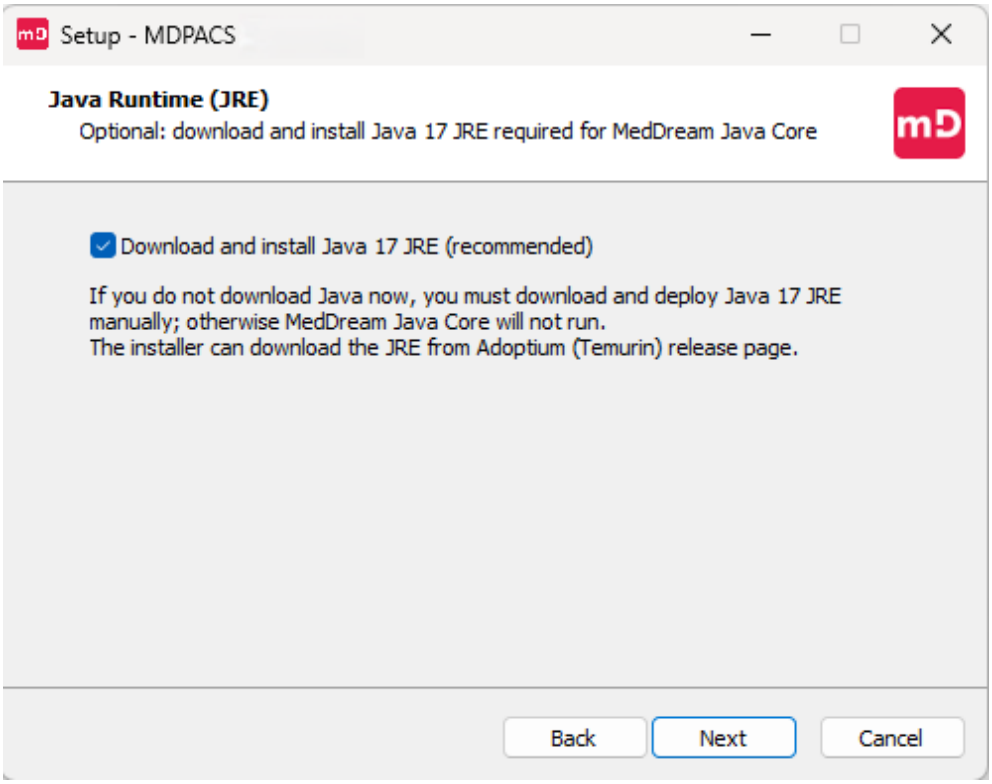
- Choose MySQL free edition (auto-install) and click Next > button:



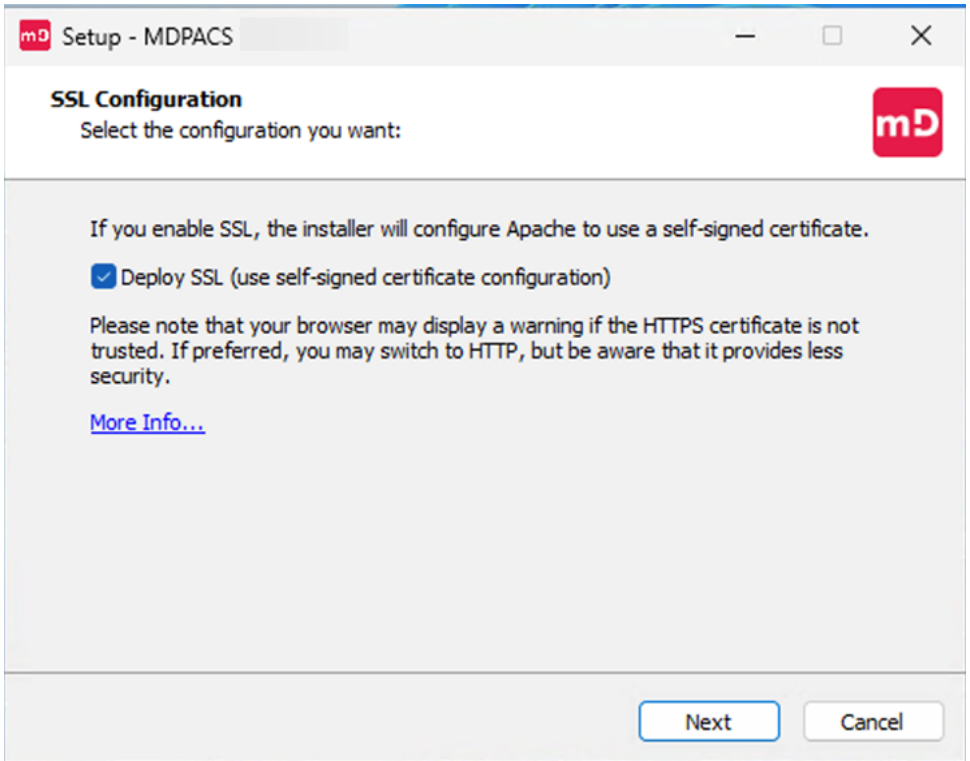
- Set MySQL root password:

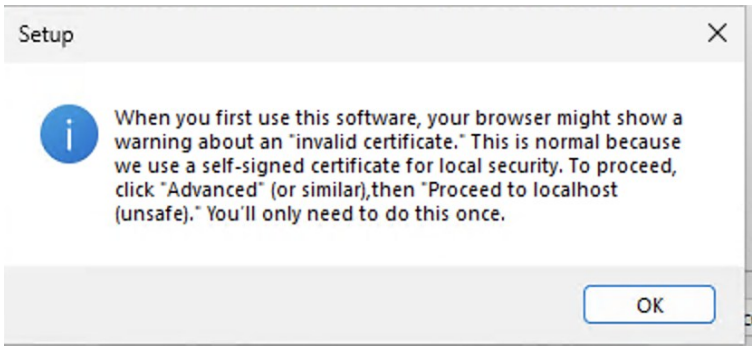


- For best experience select: Download and install Java 17 JRE

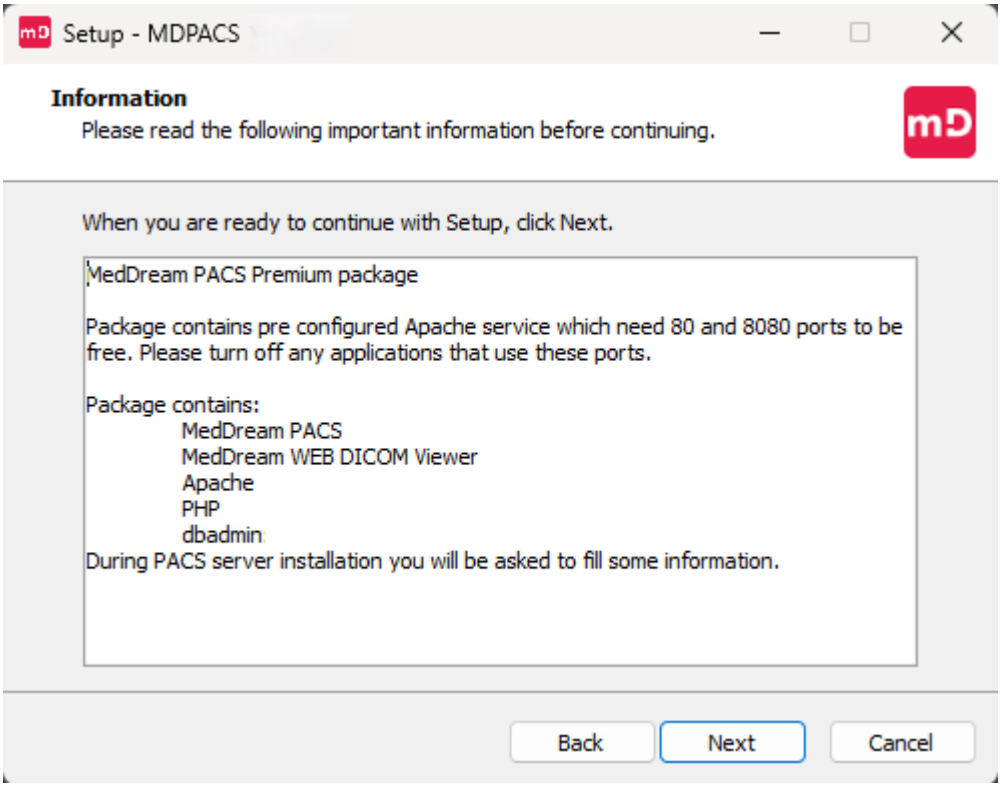


- Set secure configuration and leave SSL enabled by default:

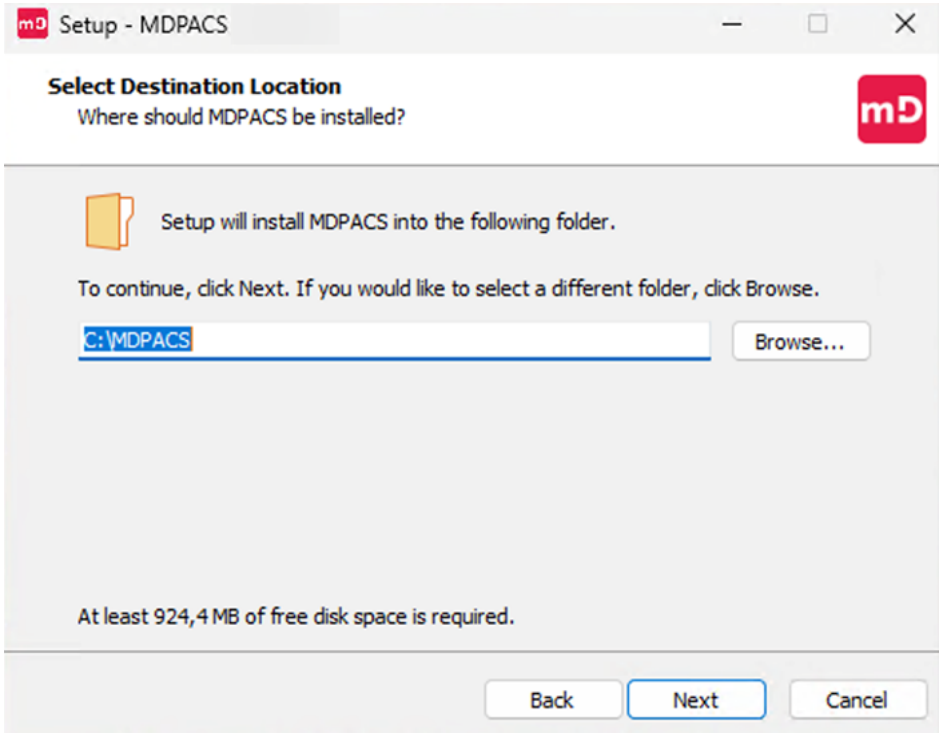

Setup - MDPACS
SSL Configuration
Select the configuration you want:
If you enable SSL, the installer will configure Apache to use a self-signed certificate.
Deploy SSL (use self-signed certificate configuration)
Please note that your browser may display a warning if the HTTPS certificate is not trusted. If preferred, you may switch to HTTP, but be aware that it provides less security.
More Info...
Next
Cancel


Setup
When you first use this software, your browser might show a warning about an "invalid certificate." This is normal because we use a self-signed certificate for local security. To proceed, click "Advanced" (or similar),then "Proceed to localhost (unsafe)." You'll only need to do this once.
OK

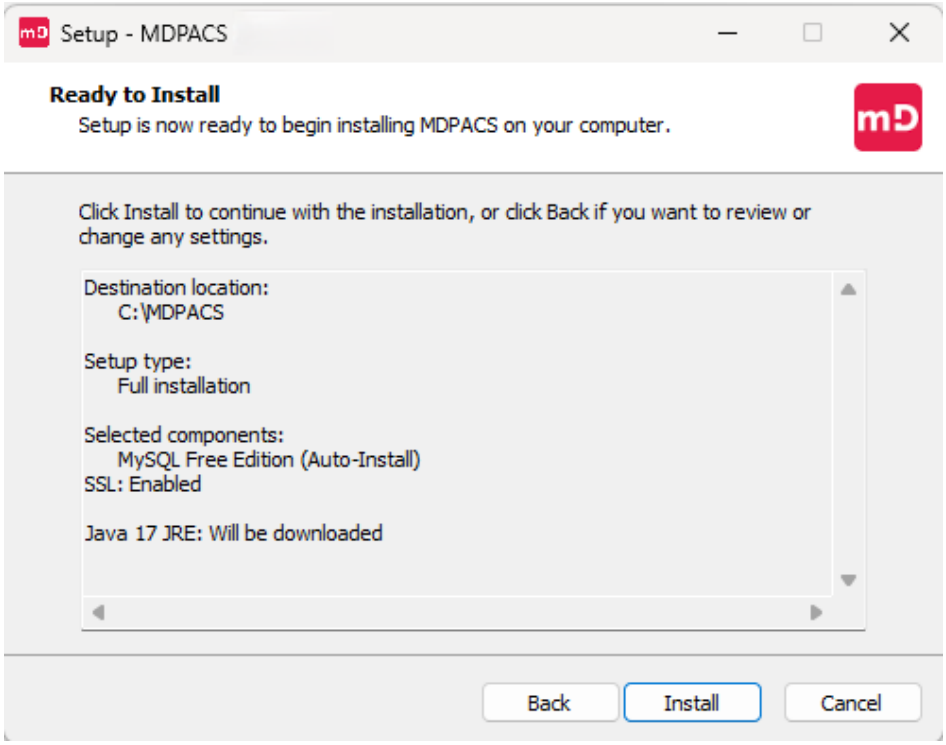
- Information screen:



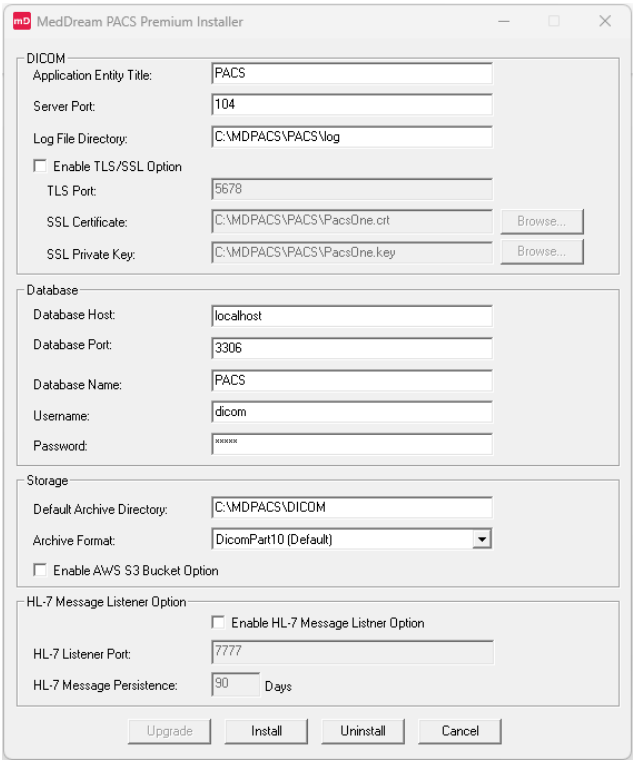
- Choose **C:\MDPACS** and click **Next >** button:



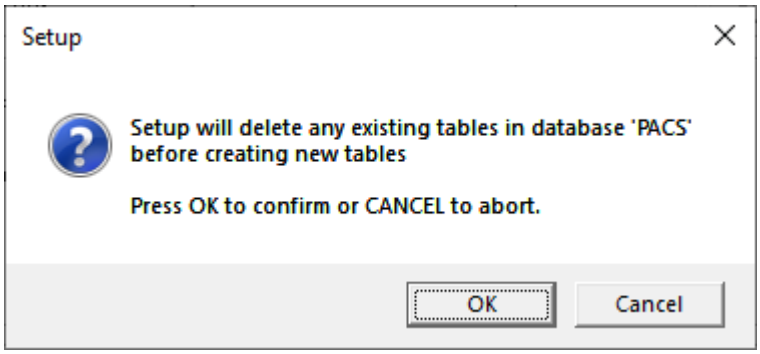
- Click **Install** to continue with the installation:

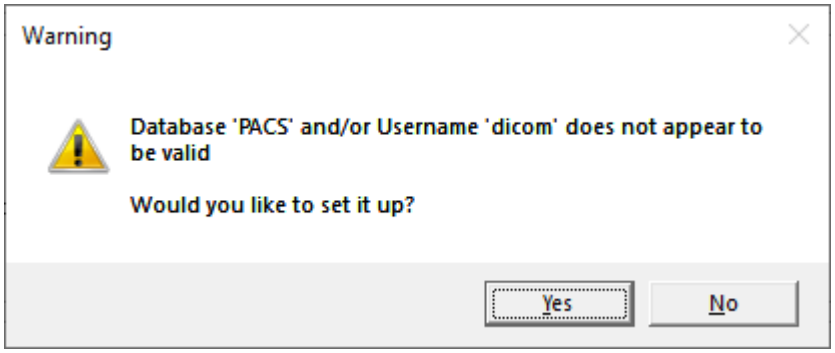


- Once MedDream Viewer is installed, the MedDream PACS configuration begins. **Follow the steps below to install and configure the MedDream PACS server.**
  - **DICOM part:**
    - **Change** “Application Entity Title” to the same AET you specified before, e.g., PACS.
    - **Change** “Server Port” to e.g., 104.
  - **Database part:**
    - **Change** “Database Name” to e.g., PACS.
    - **Enter** “Password” for database user “dicom”.
  - **Storage part.**
    - **Specify** the storage location for the DICOM files, e.g., C:\MDPACS\DICOM.
  - **Click Install** button.

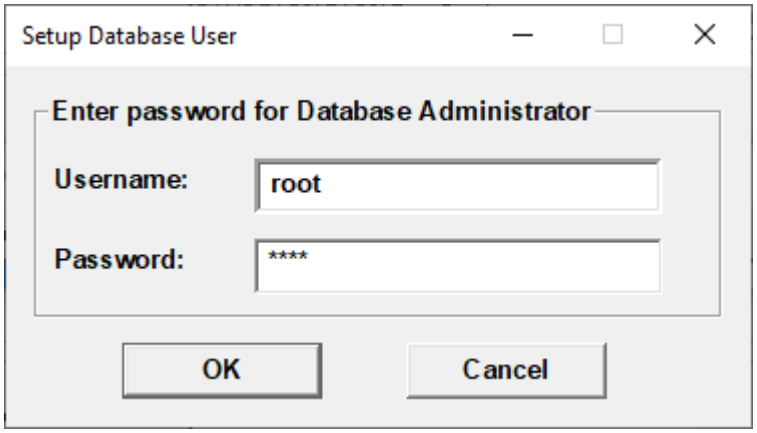


- You will be notified by two messages. It is recommended to press **<OK>** button in the first message and **<Yes>** in the second:

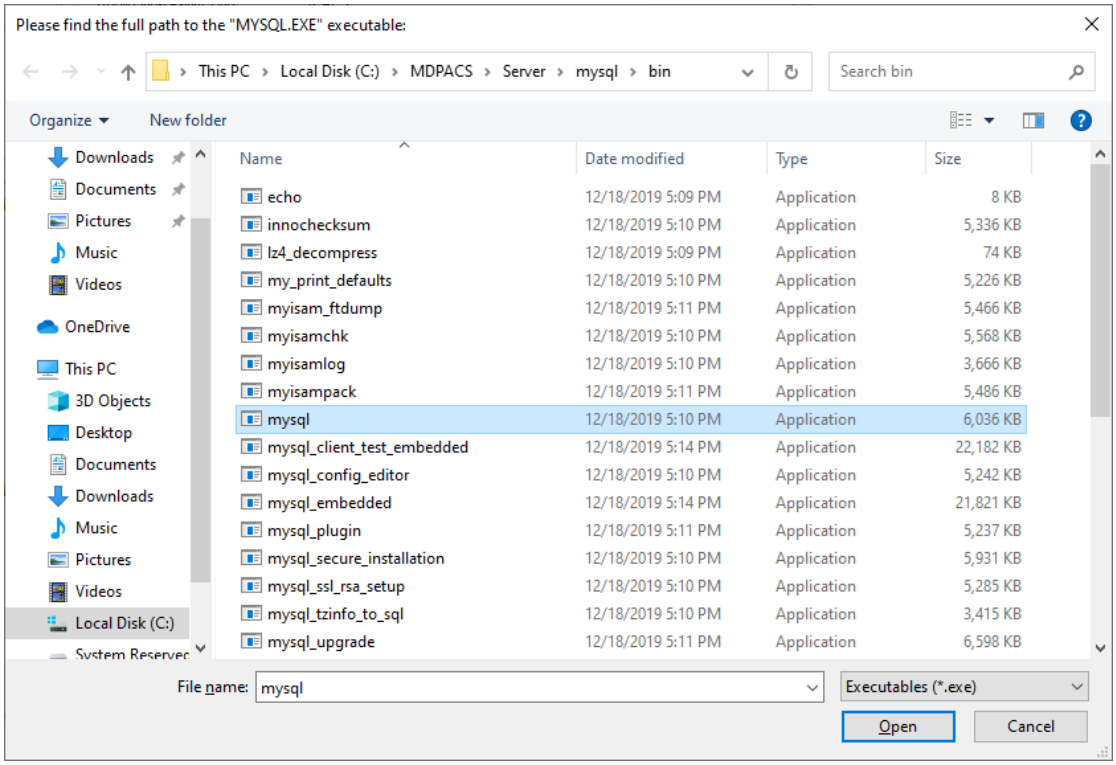




- **Enter** database password for “root” user. Enter **the same password** you specified in the MedDream Viewer installation.

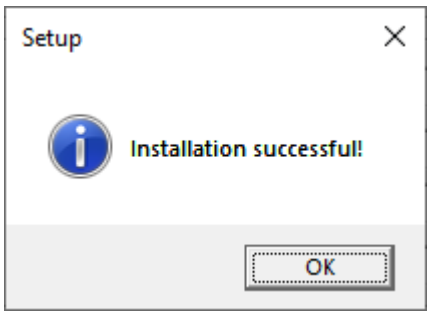


- **Find** the full path to the **"mysql.exe"**. Usually, you can find it here: C:\MDPACS\Server\mysql\bin\mysql.exe. **Select** the file and then click **Open**:

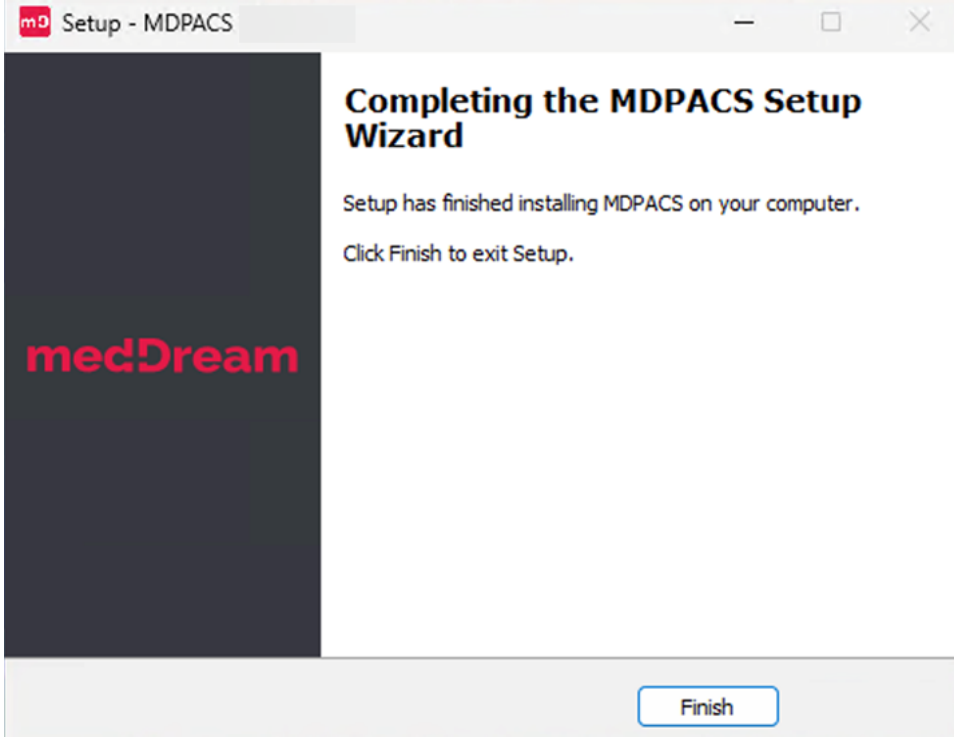


TIP: You can have several MySQL databases installed on your computer, choose the correct database.

- When the MedDream PACS installation is complete, a success message is displayed.



- MedDream PACS Premium installation is complete. Click **Finish** button.



CONFIGURATION

1 **MedDream Viewer settings.** You can add additional MedDream settings or change existing ones in the C:\MDPACS\MedDream\application.properties file. **The minimum MedDream DICOM Viewer configuration** for opening studies stored on the MedDream PACS Premium server is given below:

```
server.servlet.session.timeout=60
server.compression.mime-types=application/octet-stream

authentication.manager.username=admin
authentication.manager.password=

spring.profiles.include=auth-inmemory
authentication.inmemory.users[0].userName=demo
authentication.inmemory.users[0].password=demo
```

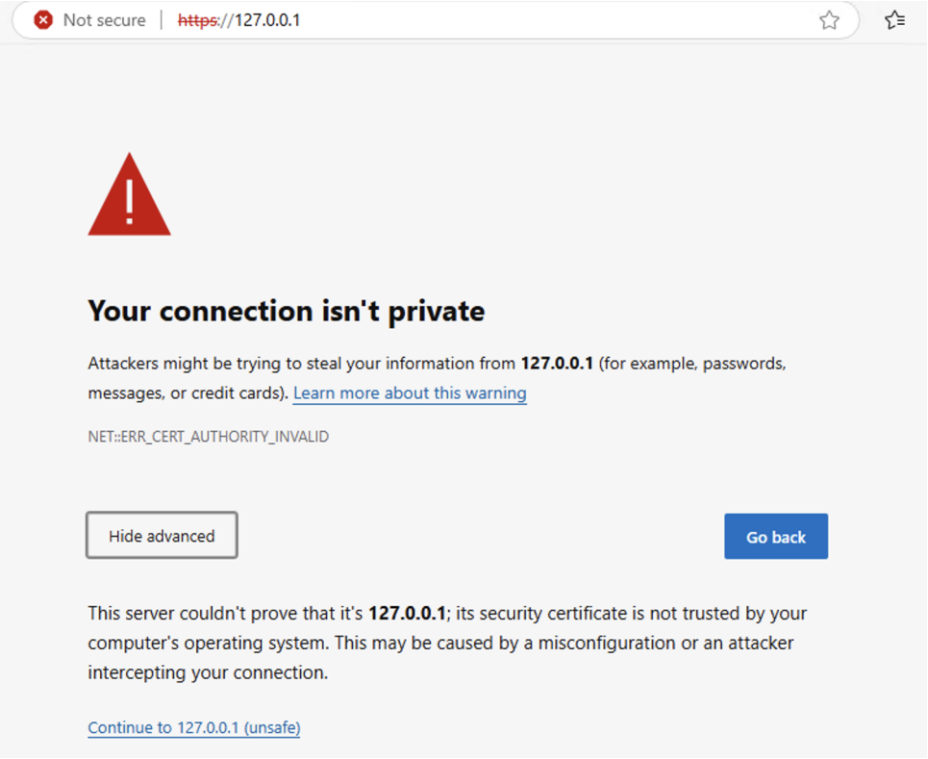
```
authorization.users[0].userName=demo

authorization.users[0].role=ADMIN,SEARCH,PATIENT_HISTORY,UPLOAD_DICOM_LIBRARY,EXPORT
_ISO,EXPORT_ARCH,FORWARD,REPORT_UPLOAD,DOCUMENT_VIEW,FREE_DRAW_EDIT,SMART_DRAW_EDIT,
CLEAR_CACHE,USER_SETTINGS


logging.level.ROOT=ERROR

logging.file.name=meddream


com.softneta.dicom.library.upload.anonymizeLevel=1

com.softneta.dicomStoreService.address=127.0.0.1

com.softneta.dicomStoreService.acceptAETitles=SendersTitle,AnotherTitle


com.softneta.temp-cleaner.cleanRateMilliSec=1800000


com.softneta.temp-
cleaner.tempItems[0].directory=${com.softneta.preparation.cacheDir}

com.softneta.temp-cleaner.tempItems[0].pattern=*

com.softneta.temp-cleaner.tempItems[0].olderThanSec=604800


com.softneta.temp-cleaner.tempItems[1].directory=${com.softneta.meddream.tempDir}

com.softneta.temp-cleaner.tempItems[1].pattern=*_archive

com.softneta.temp-cleaner.tempItems[1].olderThanSec=7200

com.softneta.temp-cleaner.tempItems[1].matchAnyDepth=false


com.softneta.temp-cleaner.tempItems[2].directory=${com.softneta.meddream.tempDir}

com.softneta.temp-cleaner.tempItems[2].pattern=*_export

com.softneta.temp-cleaner.tempItems[2].olderThanSec=21600

com.softneta.temp-cleaner.tempItems[2].matchAnyDepth=false


com.softneta.temp-cleaner.tempItems[3].directory=${com.softneta.meddream.tempDir}

com.softneta.temp-cleaner.tempItems[3].pattern=forward_*.dcm

com.softneta.temp-cleaner.tempItems[3].olderThanSec=7200

com.softneta.temp-cleaner.tempItems[3].matchAnyDepth=false


com.softneta.temp-cleaner.tempItems[4].directory=${com.softneta.video.convertedDir}

com.softneta.temp-cleaner.tempItems[4].pattern=*

com.softneta.temp-cleaner.tempItems[4].olderThanSec=3600


com.softneta.temp-
cleaner.tempItems[5].directory=${com.softneta.dicom.library.upload.tempDir}
```

```
com.softneta.temp-cleaner.tempItems[5].pattern=*
com.softneta.temp-cleaner.tempItems[5].olderThanSec=86400

com.softneta.temp-
cleaner.tempItems[6].directory=${com.softneta.dicomStoreService.saveDirectory}
com.softneta.temp-cleaner.tempItems[6].pattern=*
com.softneta.temp-cleaner.tempItems[6].olderThanSec=86400

com.softneta.audit.useTls=false
com.softneta.audit.trustStore=file:///c:/tmp/nxlog/client/cacerts.jks
com.softneta.audit.trustStorePassword={password}
com.softneta.audit.keyStore=file:///c:/tmp/nxlog/client/cacerts.jks
com.softneta.audit.keyStorePassword={password}

spring.batch.job.maxFailedJobRestarts=10
com.softneta.meddream.enabledColorPalettes=HOT_IRON,PET,HOT_METAL_BLUE,PET_20_STEP,R
AINBOW

com.softneta.meddream.pacs.configurations[0].type=PacsOne
com.softneta.meddream.pacs.configurations[0].id=PacsOneLocal
com.softneta.meddream.pacs.configurations[0].url=jdbc:mysql://127.0.0.1:3306/PACS1
com.softneta.meddream.pacs.configurations[0].username={Username}
com.softneta.meddream.pacs.configurations[0].password={Password}
com.softneta.meddream.pacs.configurations[0].useModalityAggregation=true
```

NOTE: In the C:\MDPACS\MedDream\ApTemplates you can find examples of MedDream Viewer configurations with explanations. All MedDream settings are stored in the application.SAMPLE.properties file.

VERIFICATION

1. Open a browser and enter the MedDream URL https://127.0.0.1/ in the address bar. Choose advanced and continue to 127.0.0.1 (unsafe)



*The warning you're seeing is because your server uses a self-signed SSL certificate instead of one issued by a trusted Certificate Authority (CA). Here's how you can explain to the user that this is okay and still secure:

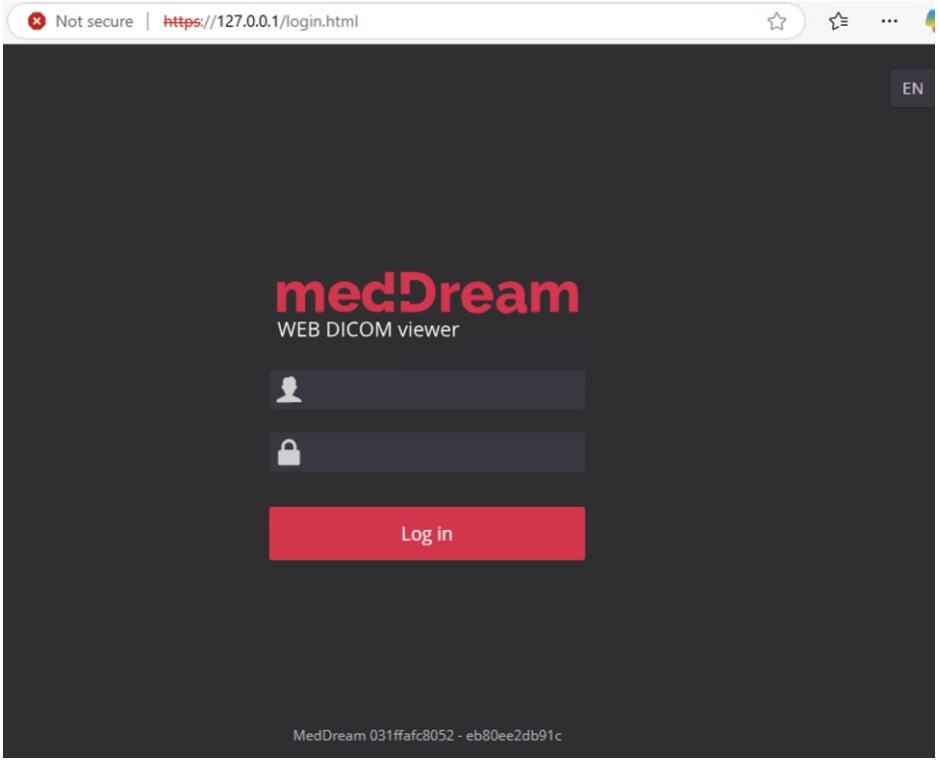
A self-signed certificate encrypts the connection just like a CA-issued certificate, ensuring that data (like passwords or messages) is protected from eavesdropping—unlike HTTP, which sends data in plain text and is completely insecure. The warning appears because your browser doesn't automatically trust the certificate since it wasn't issued by a recognized CA. However, as long as you (or your organization) created the certificate and control the server, it's safe to proceed. The encryption is still strong; the browser is just being cautious about the certificate's origin.

To make this smoother for users, you can:

1. Add the self-signed certificate to their browser's trusted certificates list.
2. Use an internal custom CA for your organization, which users can install once to trust all your servers.
3. If this is a public-facing server, consider getting a free CA-issued certificate from a service like Let's Encrypt to avoid warnings entirely.

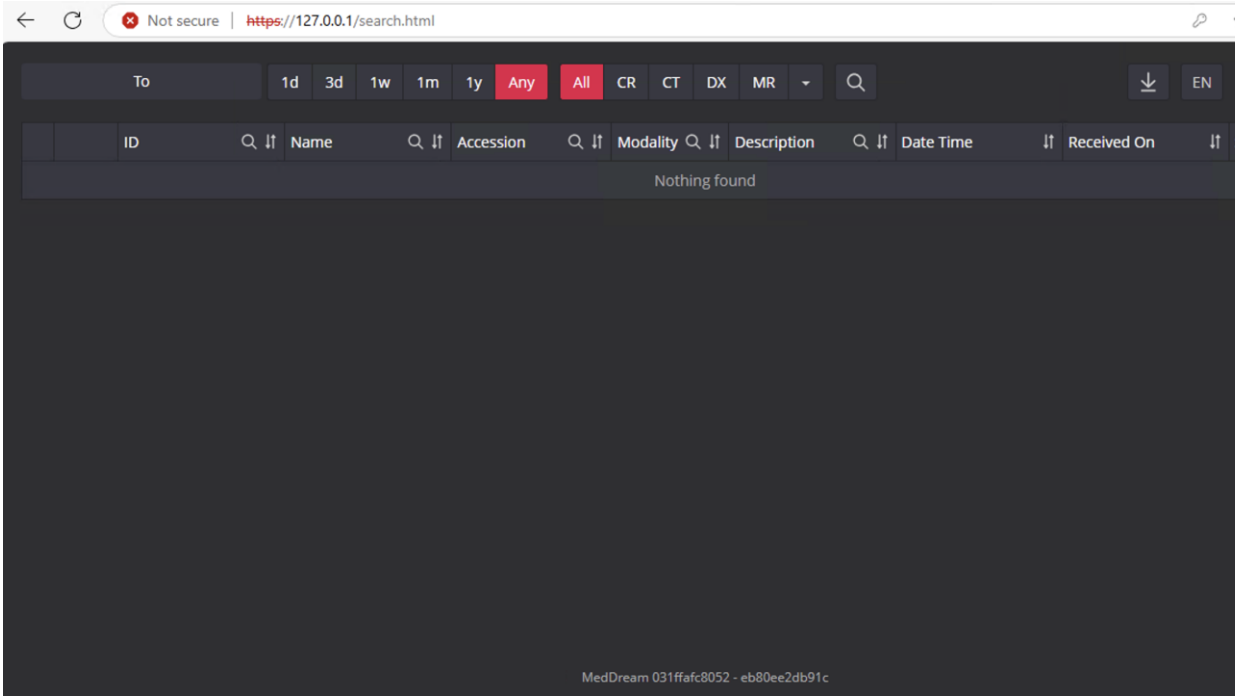
For now, clicking "Continue to 127.0.0.1 (unsafe)" is fine as long as you trust the server you're connecting to.

2 In the login window, enter the username “root” and the password of this user. Press **Log in** button:



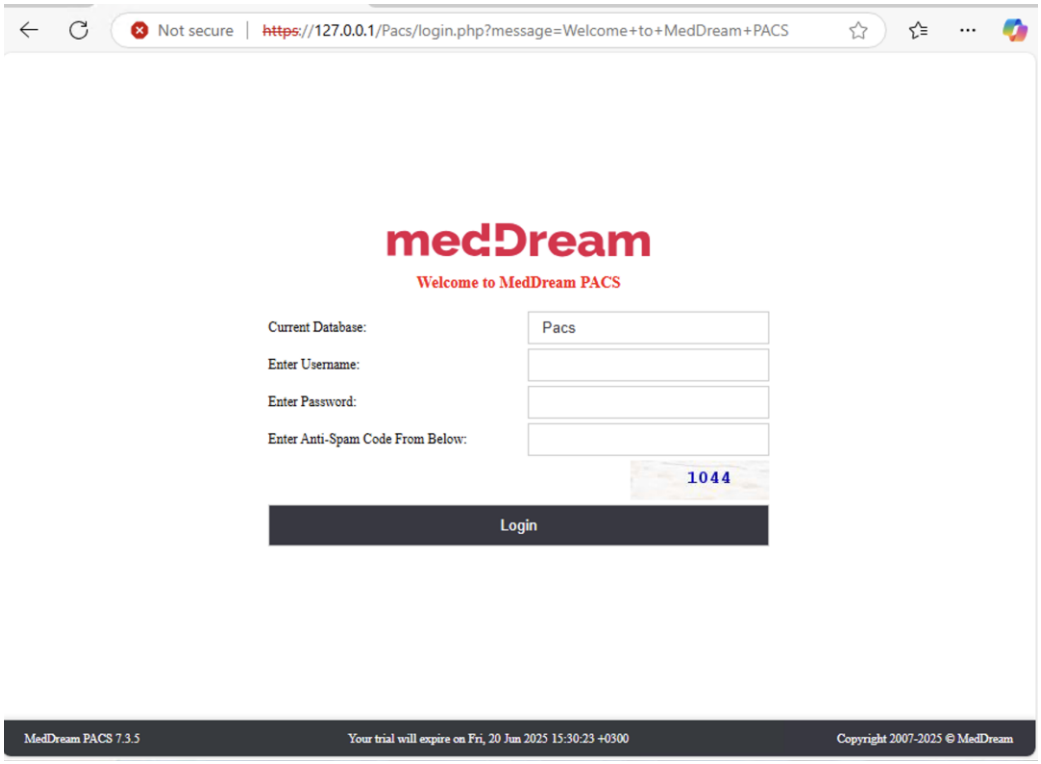
TIP: If you can't connect, restart MedDream service in Windows services (run in cmd line: services.msc and restart MedDream service).

3 If you did not upload the studies using the MedDream PACS user interface, you will see an empty list of studies:

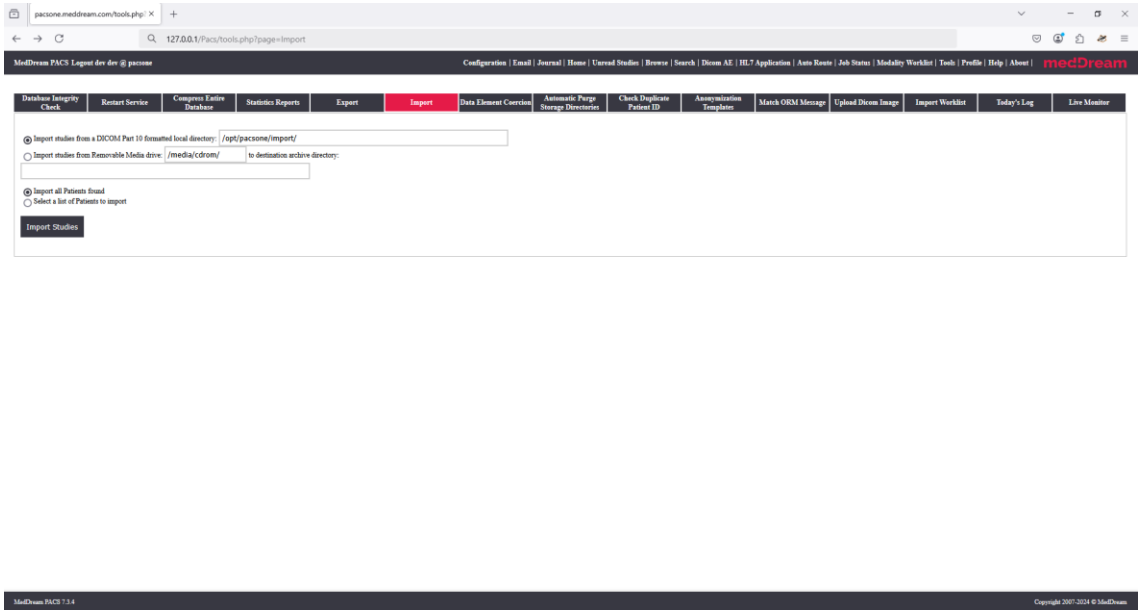


4 **Upload studies to the MedDream PACS server, follow these steps:**

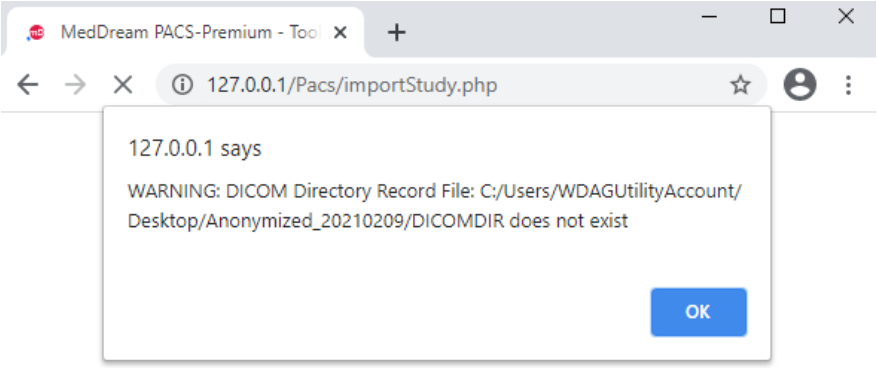
- **Open** a browser and **enter** the MedDream PACS URL https://127.0.0.1/Pacs (P must be a capital letter). **Enter** your login credentials and press **<Login>** button:



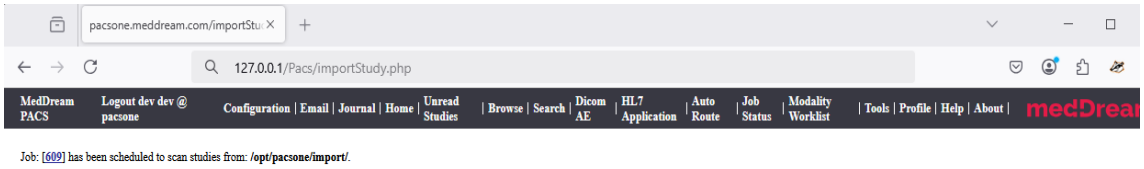
- **Click "Tools"** menu. DICOM images can be uploaded to the server by importing a directory with DICOM files. **Click "Import"** submenu and **enter** the full path to the local directory with files. Press **<Import Studies>** button.



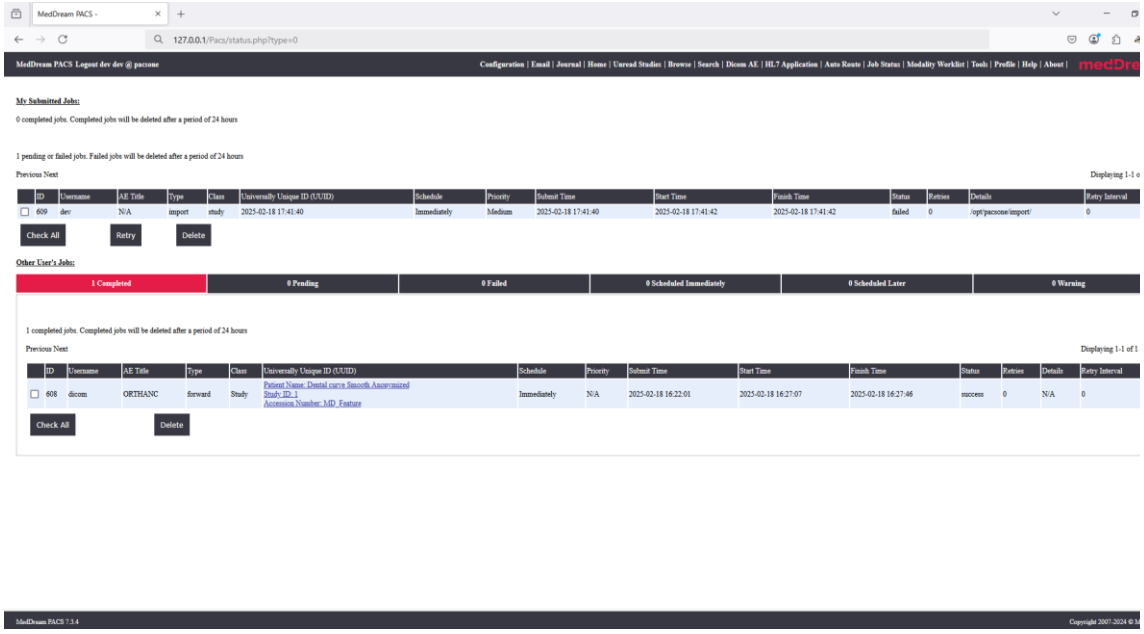
- Press **<OK>** button in the warning message:



- **Click** on the link with job number:



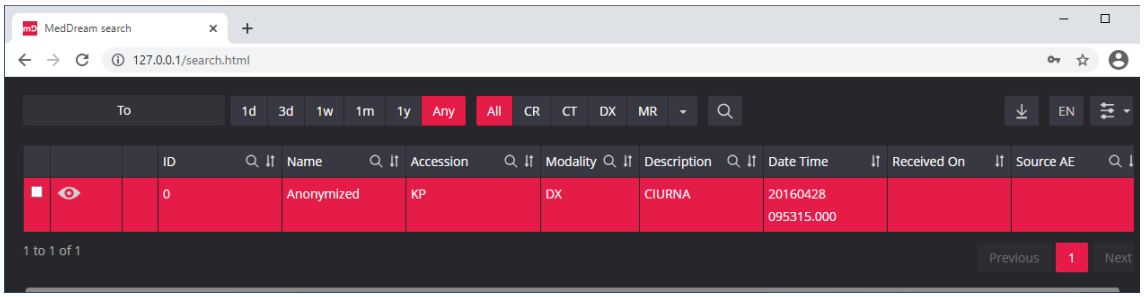
- **Review** jobs. In the “My Submitted Jobs” table you can verify if the import was successful and how many files were imported to the server:



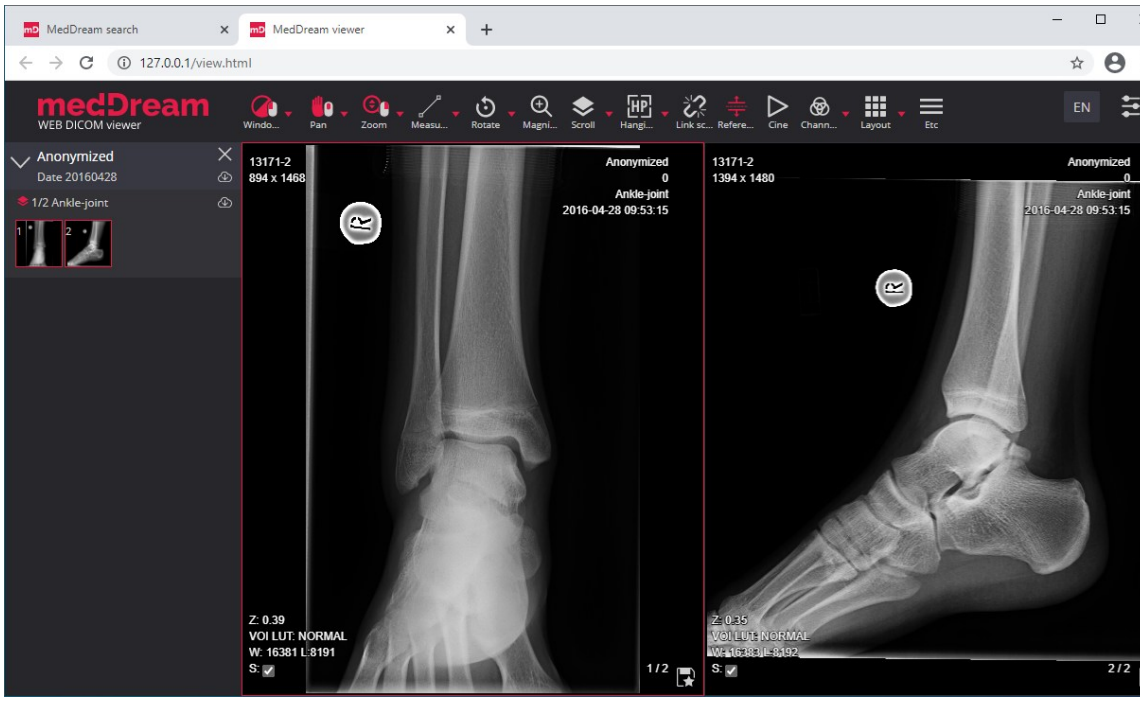
TIP: Samples of anonymized studies can be downloaded from https://demo.meddream.com/ (Login –> Open the selected study –> Click Export –> Select the DICOM format and click Export again –> Press the Download link).

5 **Review uploaded studies in the MedDream Viewer:**

- **Type** https://127.0.0.1/ into your browser's address bar again. **Login** with user **root** and password you entered and **change** the date range selection by pressing **<Any>** button. Now you can see your studies on the list:



- **Click** once on the study with the left mouse button. MedDream Viewer opens the study in a new browser tab:



6 Now you can try and see how powerful and useful this tool is.

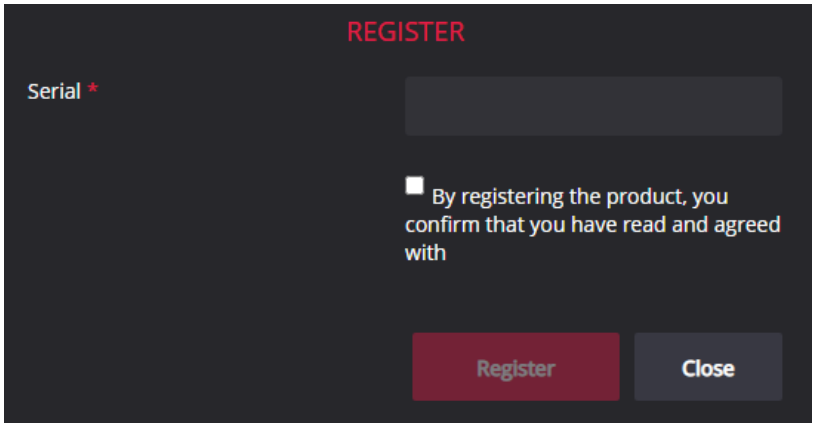
TROUBLESHOOTING

- ✓ You must restart the MedDream service each time after changes to the application.properties file or if something went wrong. You can restart the service by running in cmd line: services.msc -> then selecting MedDream service and clicking Restart on the left.
- ✓ If you can't open the studies, clearing your browser's cache may help. Open a browser and press **CTRL+SHIFT+DEL**. Then select which old data you want to delete and click **Clear** data.
- ✓ MedDream DICOM Viewer logs are stored in the **C:\MDPACS\MedDream\meddream.main.log**. The standard logging level in the application.properties file is set to INFO. If the log contains too little information, you can change the logging level to **DEBUG** by changing the value of the logging.level.com.softneta parameter.

LICENSE

MedDream DICOM Viewer licensed under the Commercial License. Please contact sales@meddream.com to get TRIAL or Commercial license. If you have a License Serial number, follow these instructions:

1. Press **Register** button. The system opens a license registration window:



2. Enter the name of the organization and the license **Serial** number you received.
3. Click on the link **EULA** and read Software License Agreement. After reading, close the window by clicking the **<Close>** button.
4. **Check** the box ☐ to confirm that you accept license agreement.
5. Press **Register** button. The license will be successfully registered.

NOTE: If you have any questions about MedDream licenses and prices, please contact our SALES team by e-mail sales@meddream.com or by phone +370 670 15991.

HELP AND RESOURCES

- Detailed MedDream installation and configuration instructions are provided in the install manual. You can download it from here: https://www.meddream.com/files/meddreamviewer/doc/MedDream-DICOM-Viewer-Install-Manual.pdf
- We are constantly improving this product. Get the most out of your MedDream Viewer with updated features and performance.
- Download the User manual from https://www.meddream.com/files/meddreamviewer/doc/MedDream-DICOM-Viewer-User-Manual.pdf and get more information about this device.
- Read short instructions and watch tutorial videos here: https://www.meddream.com/documentation/user-guide/user-introduction/
- Our great SUPPORT team is always ready to help you. If you have any questions, please write an email to support@meddream.com or call +370 672 62795.