# MFAST Installation Notes

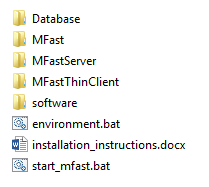
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**Pre-requisites and installation process:**

1. Download MFAST zip file and unzip to file structure that looks like this:

C:\Kinect\MFAST\_FINAL\



1. Download and install Direct-X 9.0c June 2010 Runtimes (there should be no issues on a clean computer. If computer had other packages installed, such as redistributables for VS 20XX, then those may have to be uninstalled before DX 9 can be installed. Google for details.). These are needed to support the graphics rendering.

<http://www.microsoft.com/en-us/download/details.aspx?id=8109>

2. Download the latest Kinect SDK from Microsoft (1.8) and install it to the computer:

<http://www.microsoft.com/en-us/download/details.aspx?id=40278>

* Don’t plug in the Kinect until the installation is completed.
* Once installation is done, plug in the Kinect and wait few moments for the driver to be recognized.

3. Kinect development Kit is optional and not needed in this case.

4. Download and install MySql Server.

<http://dev.mysql.com/downloads/file.php?id=454046>

* Install as development machine. Use default ports etc.
* During the installation, create the following username with the following password (should have create privileges in MySQL):

USER: mfast

PASSWORD: #Mfast2014!

* Make sure that MySQL server is installed and started as Windows Service (usually named MYSQL or MYSQL56). Certain past installers were broken and did not complete this step properly.
* Next, import the database schema. This can be done via MySQLWorkbench if installed or command line. The schema script is located in ‘C:\Kinect\MFAST\_FINAL\Database’, file ‘generate\_mfast\_schema\_last.sql’. The created database should be called ‘mfast’.
* Finally, generate some default entries that are needed to initialize the variables, default usernames, etc. This is done via script ‘set\_default\_data.sql’. You can edit it as needed, currently I have set up the site name as ‘5plus’, your username ‘nate’, password ‘demo’.

5. Download and install Apache/Tomcat. Apache server is running the HTML5 interface. Although everything is running on the localhost, the networking server is crucial part of MFAST. The server installation is packaged inside XAMPP (https://www.apachefriends.org).

<http://downloads.sourceforge.net/project/xampp/XAMPP%20Windows/5.5.19/xampp-win32-5.5.19-0-VC11-installer.exe>

* Install everything with defaults. XAMPP should be installed into C:\xampp
* Once installed, the installation can be tested by running XAMPP Control Panel.
* Although XAMPP comes with MySQL, we are not using it here so don’t start the service for MySql.
* We only need to start ‘Tomcat’.
* Stop the Tomcat service for the next step.
* I believe the computer does need to have Java (JDK) installed to be able to run the server. I’m using JDK 1.7. Tomcat is supposed to detect the installation on it’s own but if it doesn’t, you have to set up environmental variables. I have a batch file for that inside C:\Kinect\MFAST\_FINAL\environment.bat. The paths inside have to correspond to the Java location/version installed.

6. Install the web server files.

* Go to ‘C:\Kinect\MFAST\_FINAL\MFastServer’ and locate the file ‘MFastServer.war’. This file needs to be copied to Tomcat installation. It will be automatically unzipped and installed.
* Copy this file to: ‘C:\xampp\tomcat\webapps’.
* Go back to XAMPP Control Panel and restart ‘Tomcat’. After a minute or so it should install the server.

7. Testing the server.

* Open web browser, e.g. Internet Explorer
* Go to: <http://localhost:8080/MFastServer/> and check if the webpage shows up

8. Running the demo:

* If all was installed to default locations, you should be able to start the demo via a batch file which will launch the ThinAppClient and the web browser pointing to the correct address (assuming also that Tomcat is running as a service). This batch file is located in:
* C:\Kinect\MFAST\_FINAL\start\_mfast.bat