MarkMagic PI 11.0 and JMagic 11.0

MarkMagic

By CYBRA

Support: 914-963-6600 Option 4 • Fax: 716-712-0666 • help@CYBRA.com

We identify with success.

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A. Intro to MarkMagic PI 11.0

CYBRA has now made it much easier to install and run MarkMagic PI. MMPI 11.0 now ships as its own standalone installer with Apache Tomcat built in! It is the exact same MMPI product experience that you are used to running within a separate third-party web application server, except now, MarkMagic PI Standalone runs as its' own service.

MarkMagic PI allows you to manage your MarkMagic environment through a web interface. You can print, monitor a directory for input data, maintain MarkMagic users and printers, plus more through the MarkMagic PI web portal. All you need is a web browser!

MarkMagic PI Windows and Linux installation files and documentation are available via download from the CYBRA website:

www.CYBRA.com

B. Installation of MarkMagic PI 11.0

The link to download MarkMagic PI 11.0 can be found at www.cybra.com/my-downloads/. If you are prompted to open or save the file, save it to a temporary directory on your PC. Once the download is complete, find the downloaded file and extract the zip file's contents. Inside, you will find either the 64bit Windows based installer or the BIN Linux installer depending on the download you chose. If you require a 32bit Windows installer package, please contact CYBRA Support.

Prerequisites / Requirements

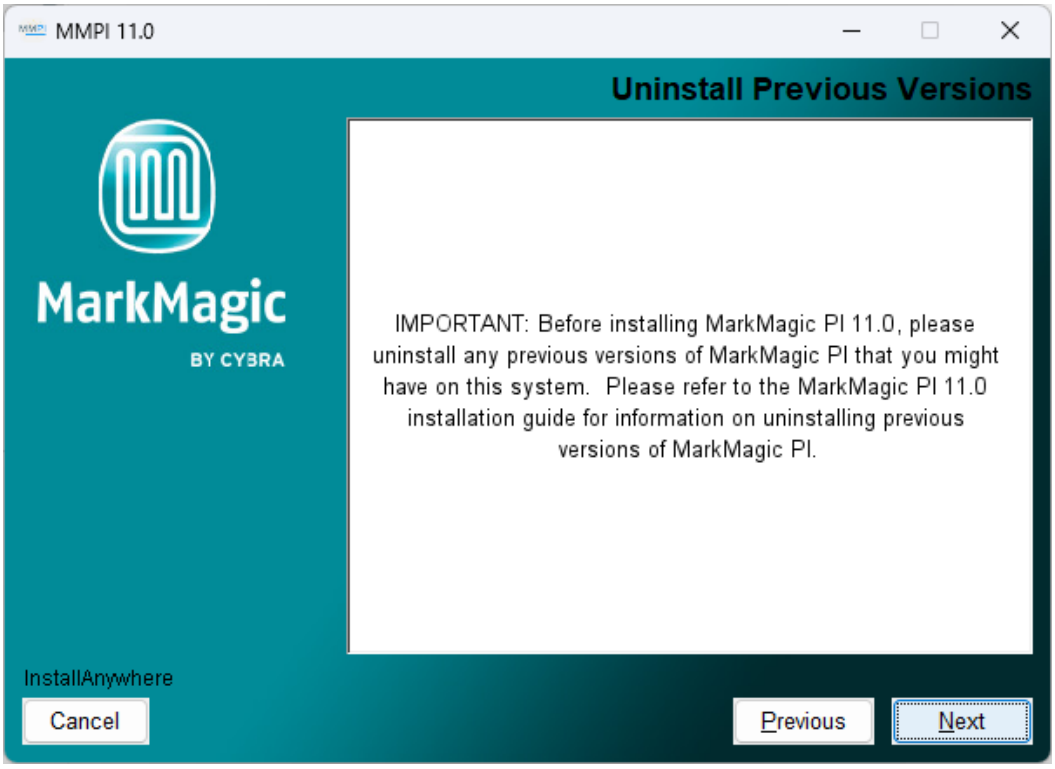
Java – CYBRA bundles 64bit Java runtime version 11 with the installer package.

The base installation of MarkMagic PI is about 100MB and will gradually grow from there as you design more labels and forms.

Any modern-day server should be able to run MarkMagic PI. Naturally, as your printing volume grows throughout your company, your server hardware requirements will need to be adjusted up. MarkMagic PI can run on a simple dual core server with 512MB ram all the way up to enterprise level servers. Please contact help@CYBRA.com if you would like to discuss adjusting MMPI memory settings for high volume printing situations.

Upgrading an Existing MarkMagic PI Installation to Version 11.0

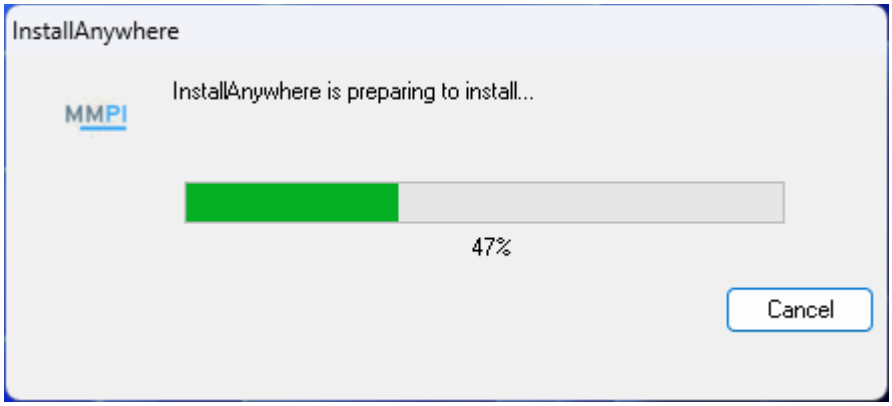
Only one version of MMPI can be present on a system at any given time. Any existing installation of MMPI must be uninstalled first before installing MarkMagic PI version 11.0. The MarkMagic PI 11.0 installer has been updated to inform users about this fact and now refers to this document for further instructions. Detailed notes on uninstalling MarkMagic PI based on the specific operating system are found later in this install guide.



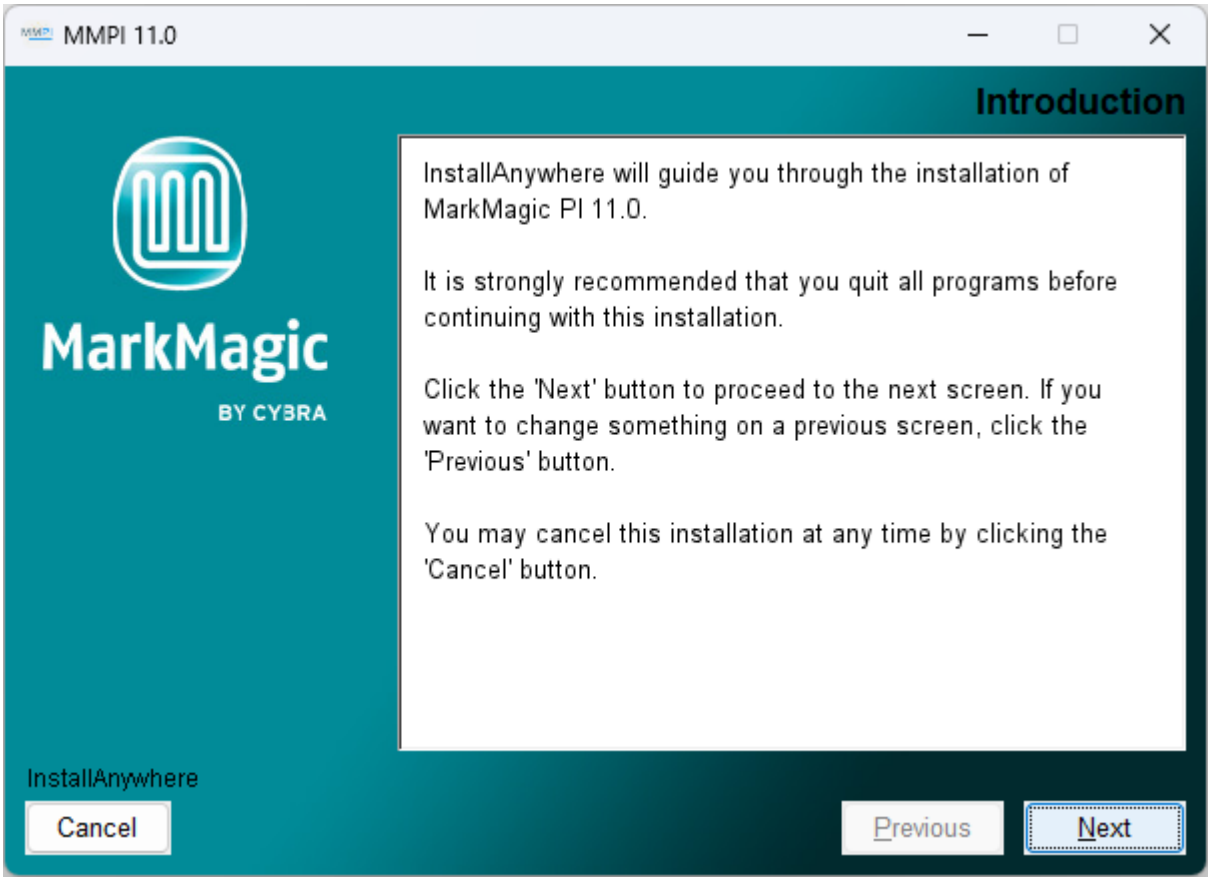
IMPORTANT: MarkMagic version 11.0 supports upgrading only from MMPI version 10.0. If MarkMagic 9.5 or earlier is detected, the version 11.0 installation will automatically cancel. Please contact CYBRA support at help@CYBRA.com for more information on upgrading from version 9.5 and earlier to version 11.0.

MarkMagic PI Windows Installation

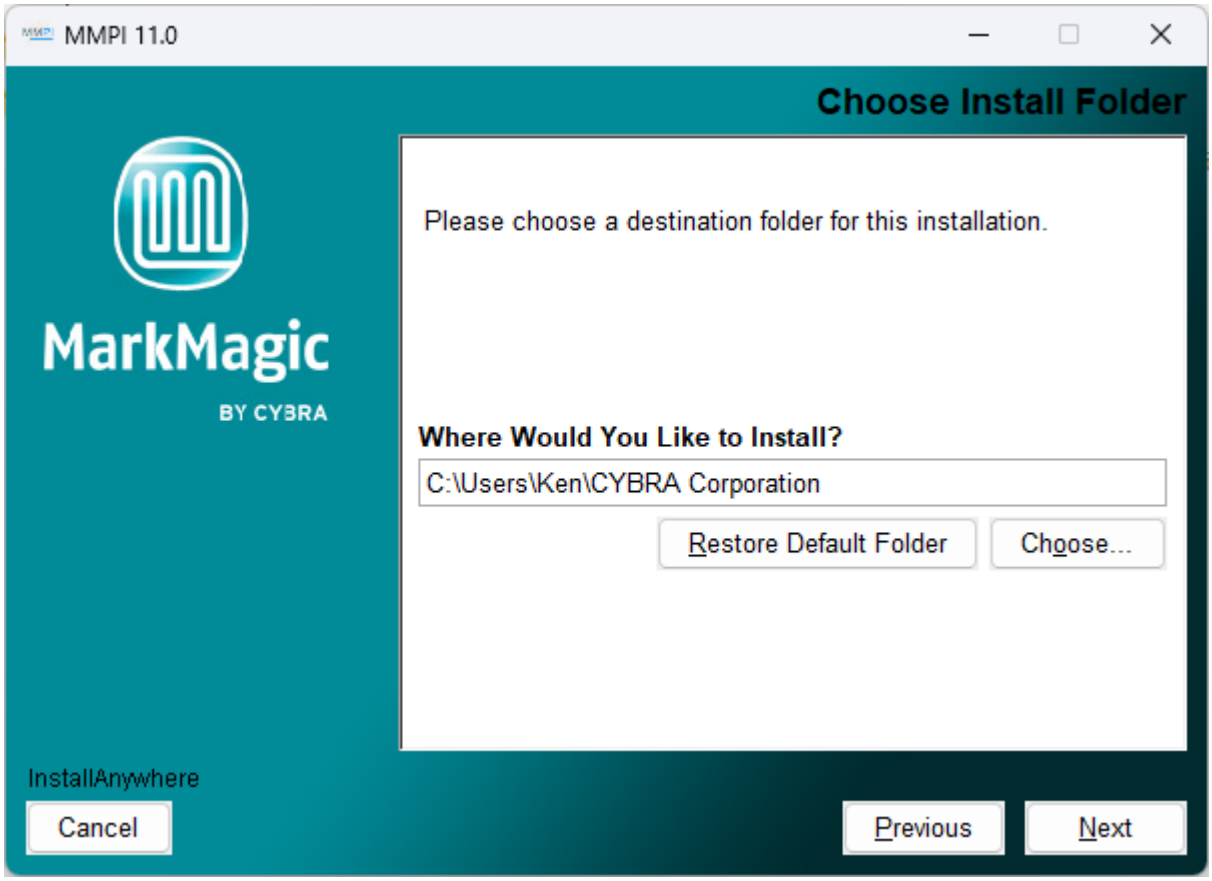
Locate the Windows MMPI Standalone installer exe that you downloaded from www.CYBRA.com. Double click to run the installer.



Welcome to the MarkMagic PI 11.0 Windows Installer:

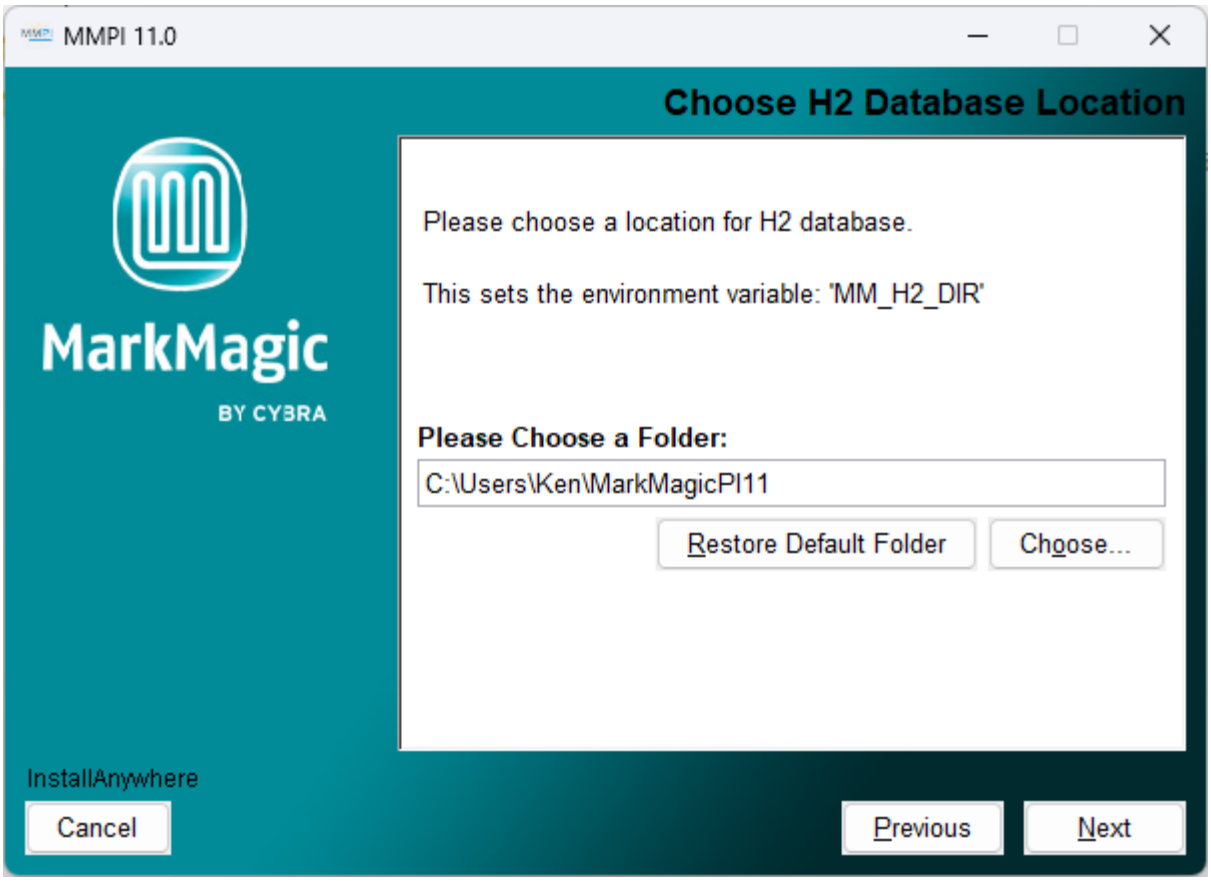


Proceed through the initial screens and you will be asked for the destination folder where MarkMagic PI 11.0 will be installed.



You can choose to keep it as the default path or provide your own custom path. This is the location where the core MarkMagic PI server files will be installed. Proceed to the next step…

You will be asked to set the path for the location of the H2 Database.

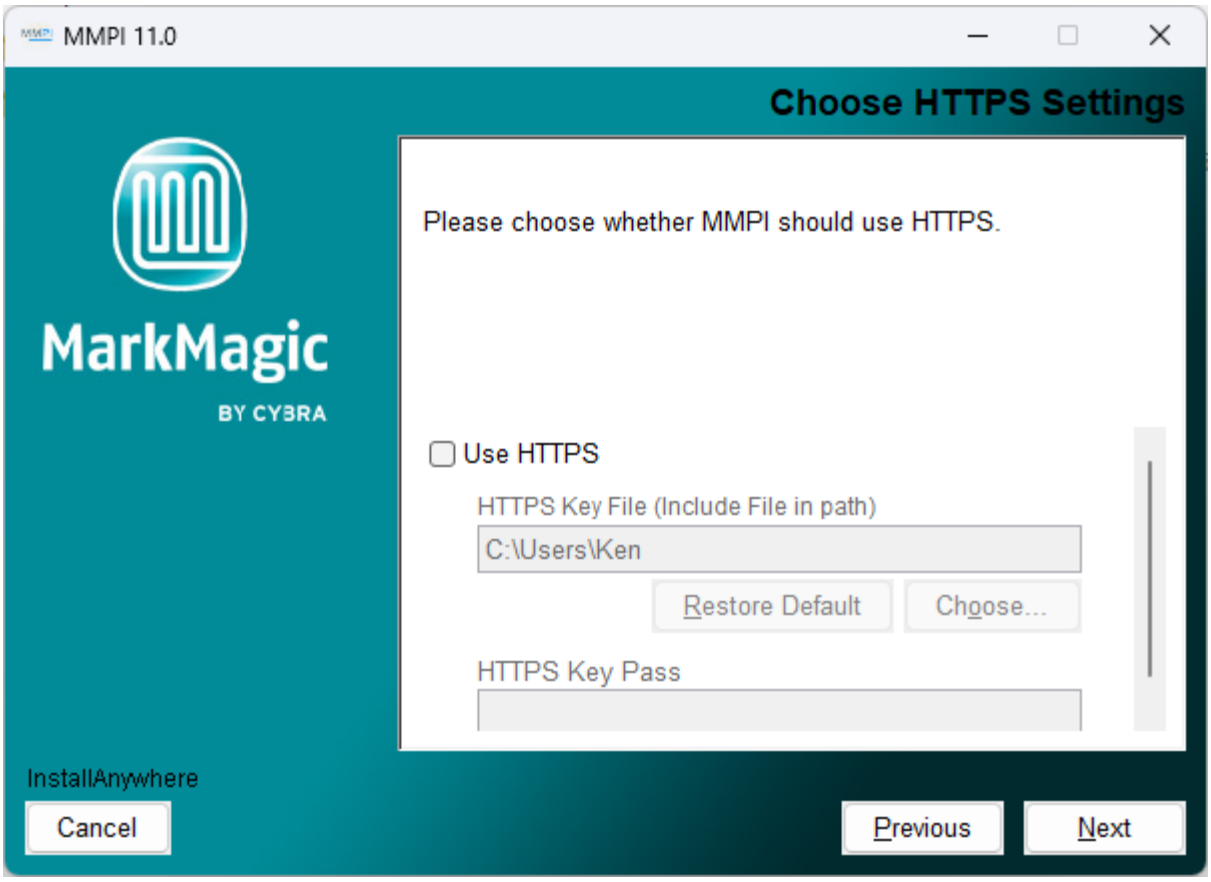


The path you choose here will create a Windows 'MM_H2_DIR' environment variable. The default location provided is ideal as it is a location that the MMPI Windows service should have read/write access to. If a different path is desired, specify that here. Please note that the MMPI service must have read/write access to this path.

For brand new installs, when the MMPI server starts for the first time, it will create a new MarkMagic.mv.db database file in this location. Think of this path as the main MarkMagic PI Data location. Log files, custom fonts, print queues, etc. will all be created and stored here by the MMPI service.

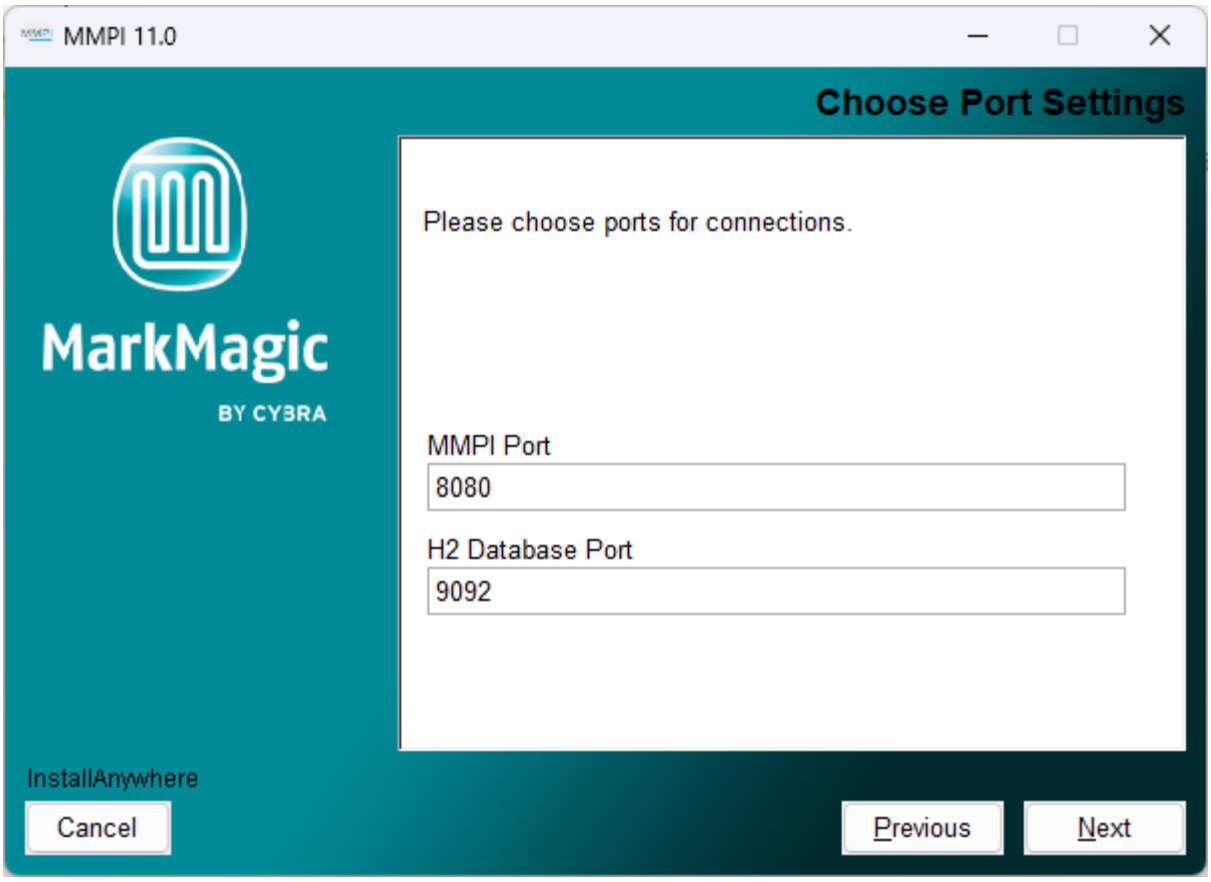
For users upgrading from a previously uninstalled version 10.0 of MMPI, you must specify the path to your existing MARKMAGIC.h2.db database. When MMPI 11.0 starts for the first time, your old database will be backed up and then upgraded to version 11.0.

Proceed to the next step where you can choose to configure HTTPS if it is a requirement in your network environment…



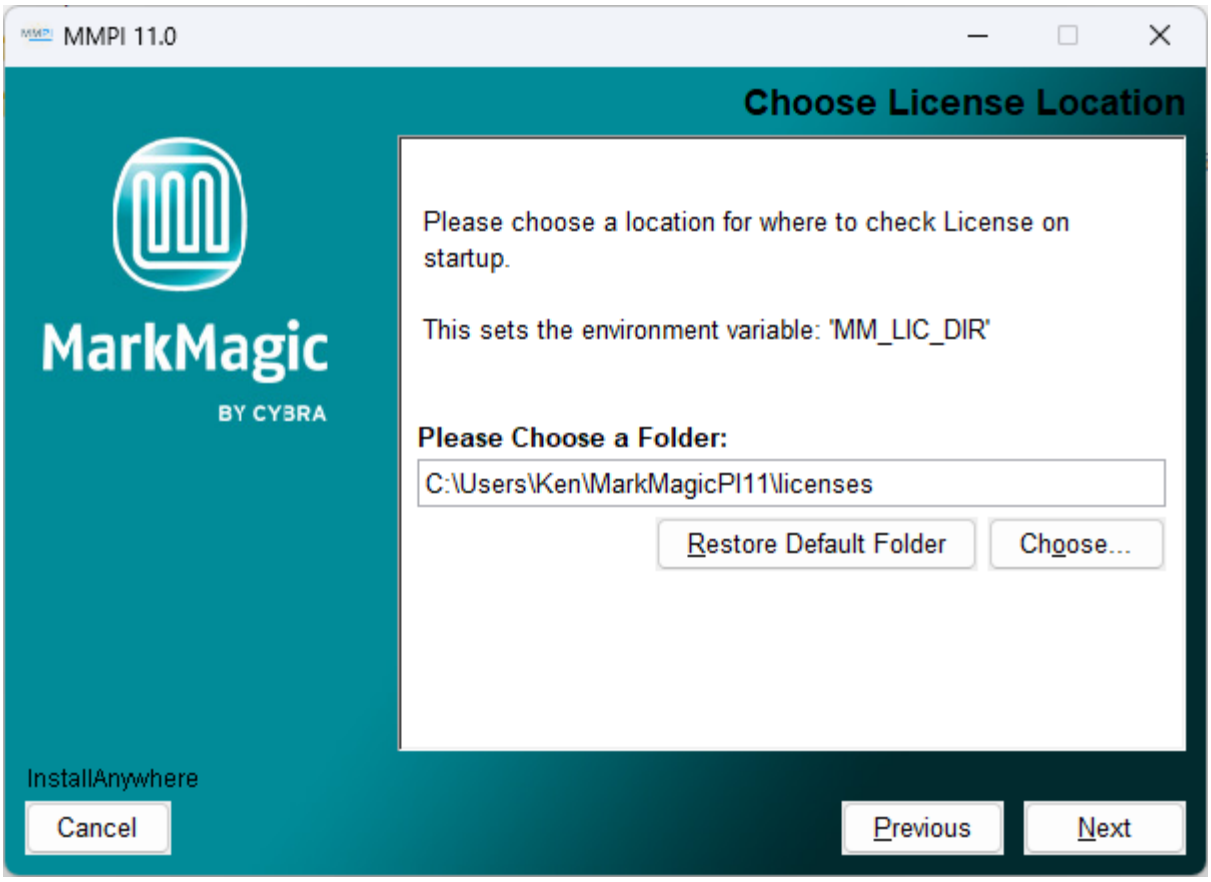
If you do not wish to use HTTPS, then leave the option unchecked and click Next. If you do plan to use HTTPS, enable the check box. Set the path to where you keep your HTTPS Key File. (Consult your system administrator if you do not know what this is.)

Also, on this screen, provide your HTTPS Key Pass. (Consult your system administrator if you do not know what this is.)
Click 'Next' and you will be asked to configure the MMPI default ports…



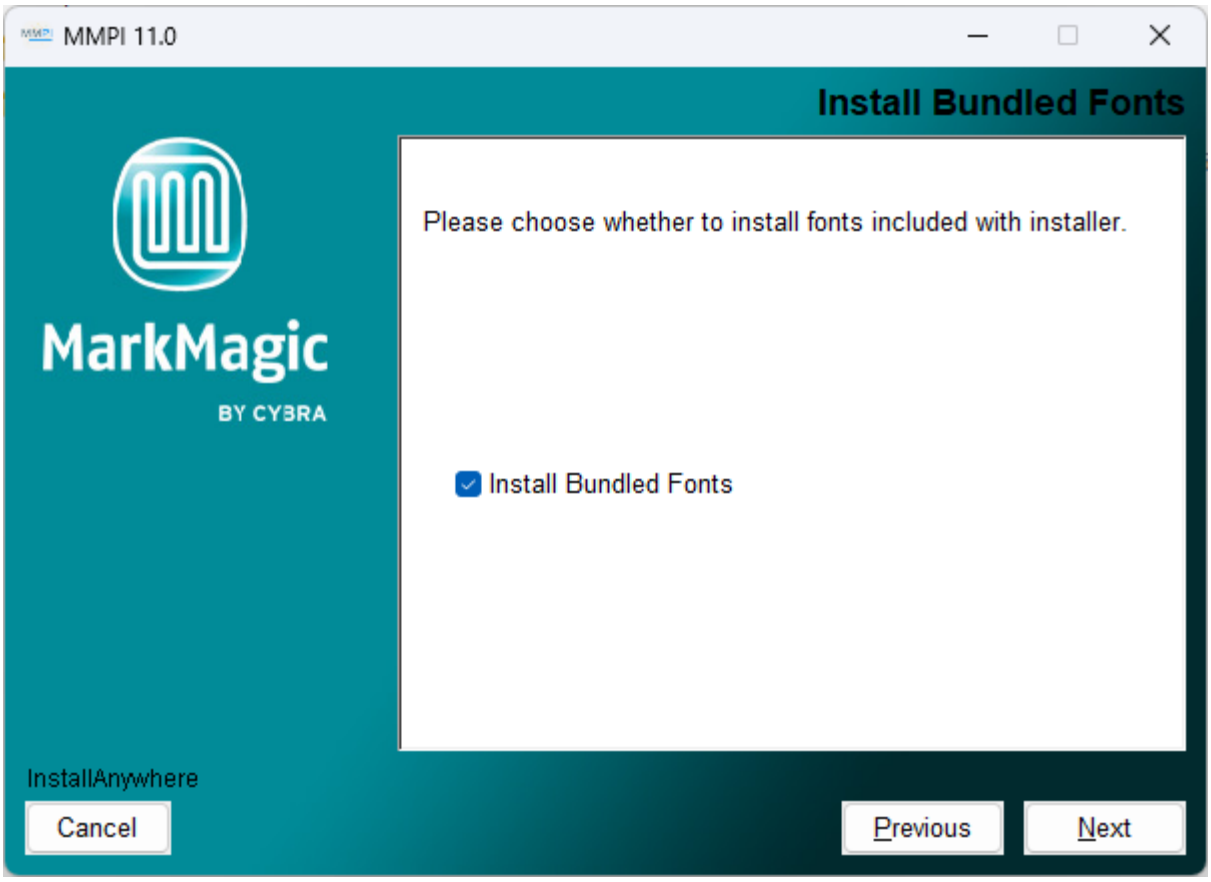
Only in certain unique network environments would you need to change these port values from their default. For example, if you plan to run two instances of Apache Tomcat on the same server, you might need to specify a different port here. Though, in a typical MarkMagic PI installation, these values can be kept as the default.

Proceed to the next step where you can define where MarkMagic PI will search for license files…

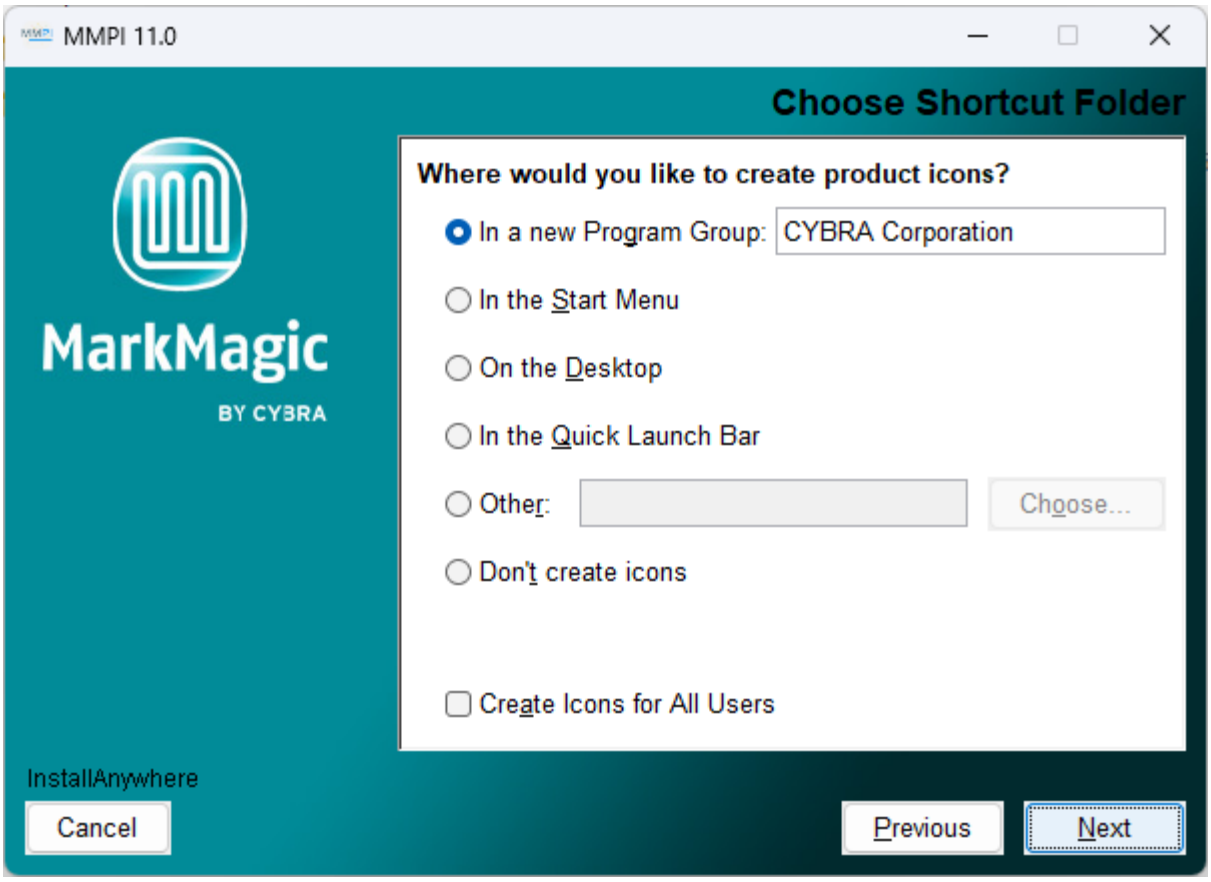


The path you choose here will create a Windows 'MM_LIC_DIR' environment variable. MarkMagic PI has a feature where upon server startup, it can automatically detect and load license files provided to you by CYBRA. This is the path where MarkMagic PI will search for the license files. Though this location can be customized, it is recommended to keep the default path "../licenses" within the previously defined 'MM_H2_DIR' path.

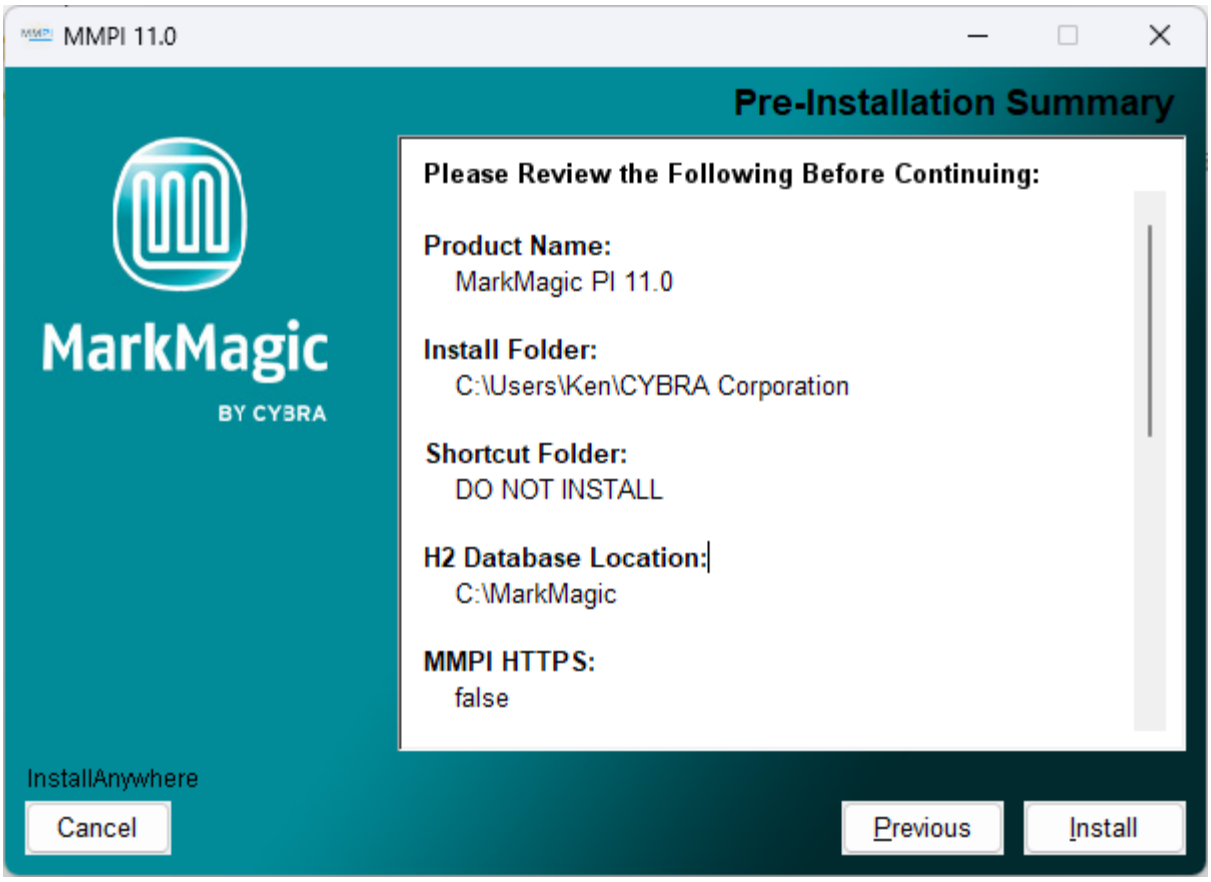
Click next and you will be asked if you wish to install the bundled fonts. This is very important if you plan to use MarkMagic PI to create PDF output. It is recommended to leave this option checked.



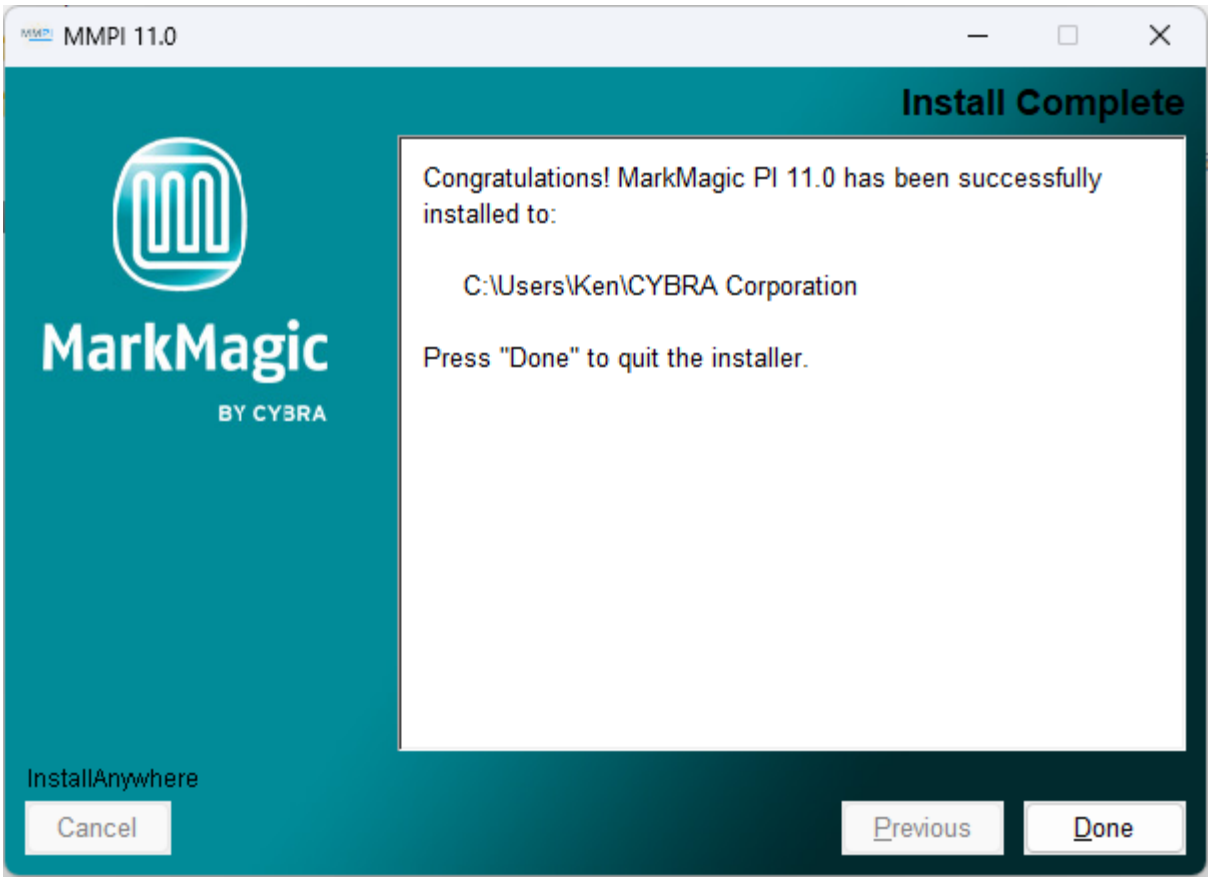
Click next and you can choose where Start Menu links and program shortcuts will be placed…



After making your decision, click next and you will be brought to the installation overview…



Click ‘Install’ to install MarkMagic PI!



MarkMagic PI is now installed! Click Done to exit the installer. You can move to the next section of the install guide where we will discuss starting, connecting to, and managing the MarkMagic PI server.

MarkMagic PI Linux Installation

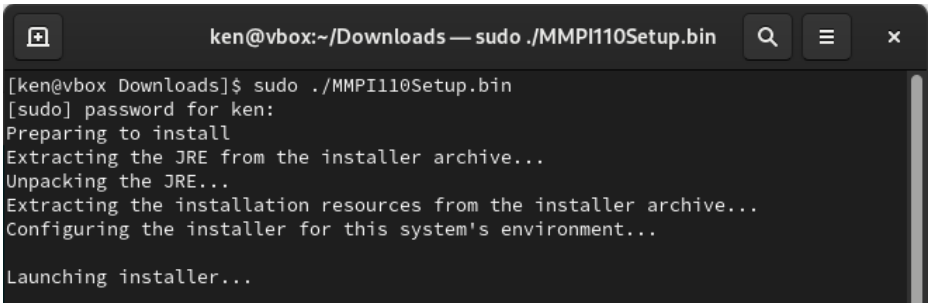
MMPI Install in a Graphical Desktop Environment:

Follow these steps if your Linux OS uses a graphical window manager. Full command line installation instructions are provided later in the guide.

Open a terminal session and then navigate to the directory where you downloaded the MMPI Linux installer BIN file from www.CYBRA.com.

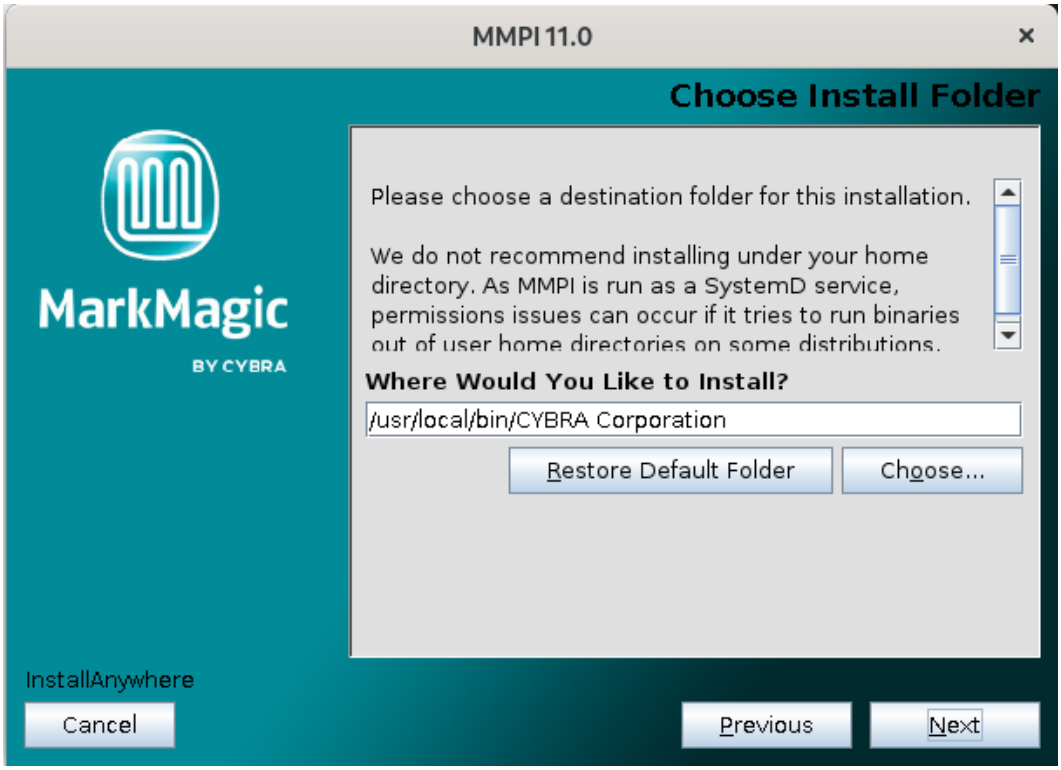
Run the MMPI installer with super user authority:

```
sudo ./MMPI110Setup.bin
```



Welcome to the MarkMagic PI 11.0 Linux Installer:

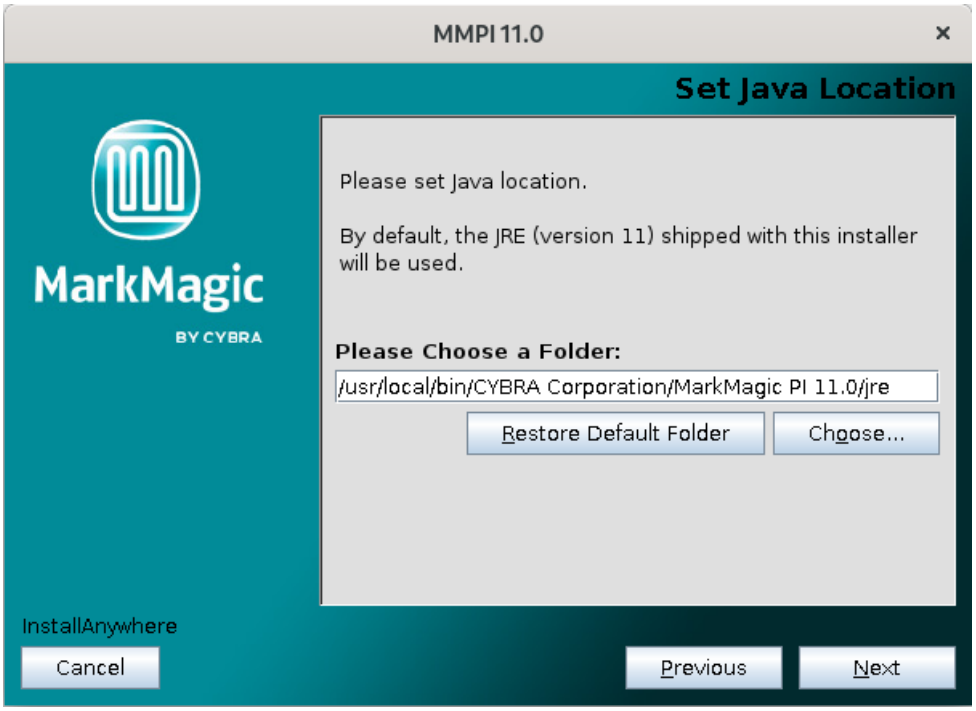
Proceed through the initial screens and you will be asked for the destination folder where the MarkMagic PI 11.0 binaries will be installed.



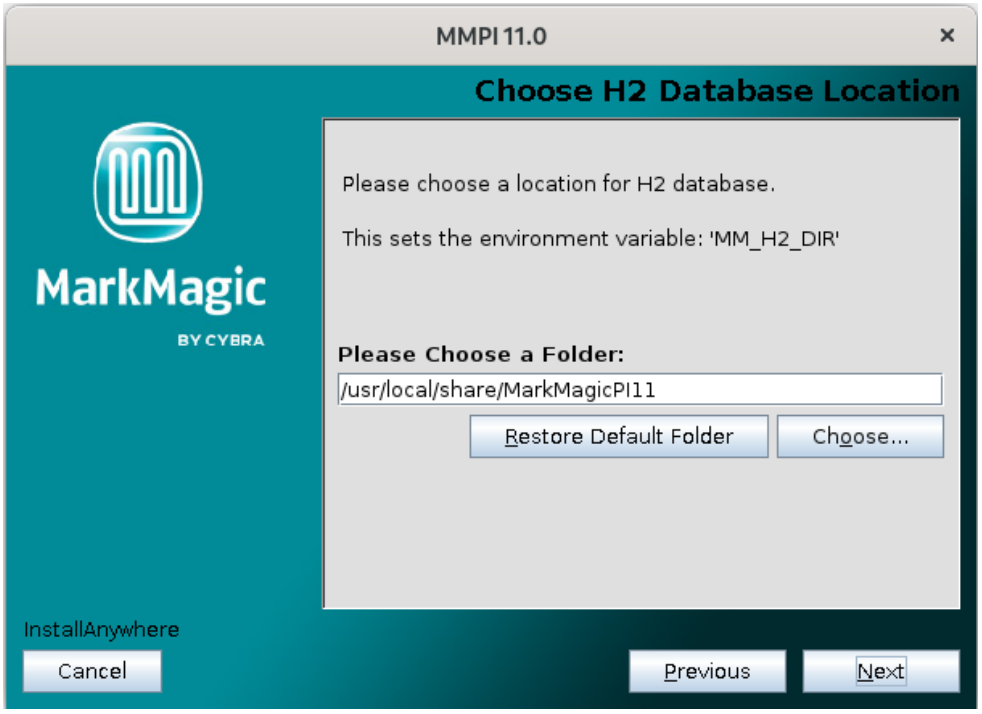
This is the location where the core MarkMagic PI server files will be installed. It is recommended to keep the default path, but if a different location is desired, please choose a path that is not located within a users' /home and is one that SystemD has read / write access to.

Click 'Next' to configure the Java runtime.

As noted earlier in the install guide, the MarkMagic PI installer ships with Java runtime version 11 and will use this as the default java runtime. If you prefer to use your own installation of java, please specify the path to the JRE here and click 'Next'.



The next screen allows you to define the path to the MarkMagic PI H2 database.

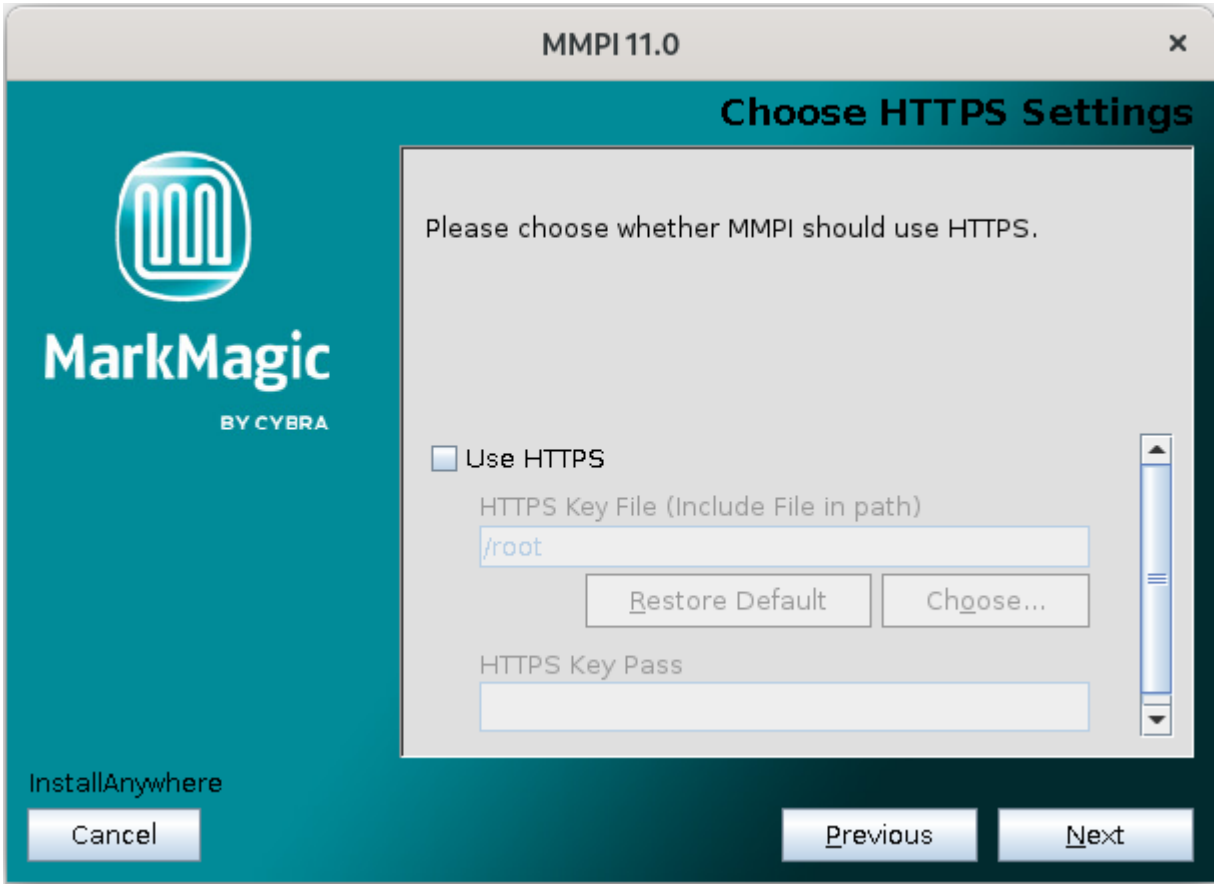


The path you define here will create an 'MM_H2_DIR' environment variable. The default location provided is ideal as it is a location that SystemD should have read/write access to. If a different path is desired, specify that here. Please note that the MMPI service must have read/write access to this path.

For brand new installs, when the MMPI server starts for the first time, it will create a new MarkMagic.mv.db database file in this location. Think of this path as the main MarkMagic PI Data location. Log files, custom fonts, print queues, etc. will all be created and stored here by the MMPI service.

For users upgrading from a previously uninstalled version 10.0 of MMPI, you must specify the path to your existing MARKMAGIC.h2.db database. When MMPI 11.0 starts for the first time, your old database will be backed up and then upgraded to version 11.0.

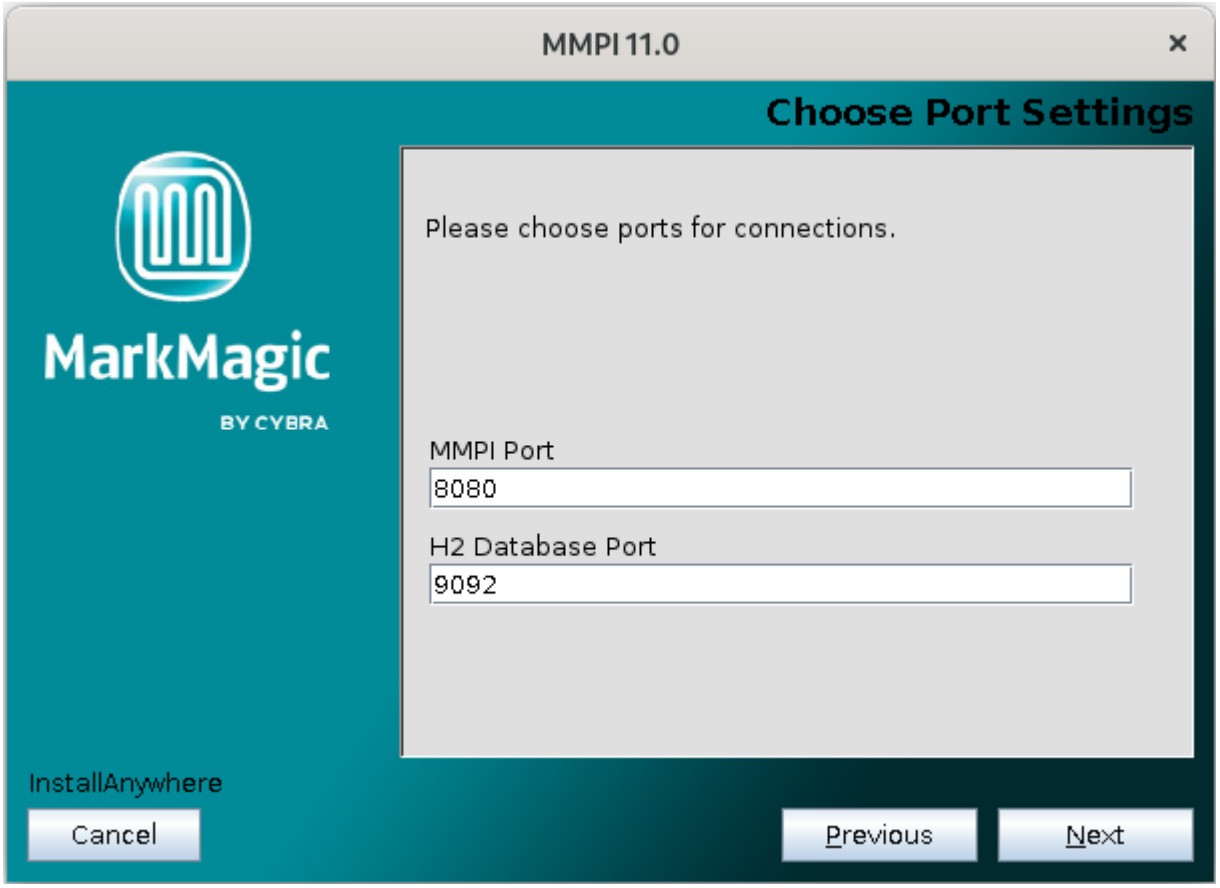
Proceed to the next step where you can choose to configure HTTPS if it is a requirement in your network environment…



If you do not wish to use HTTPS, then leave the option unchecked and click Next. If you do plan to use HTTPS, enable the check box. Set the path to where you keep your HTTPS Key File. (Consult your system administrator if you do not know what this is.)

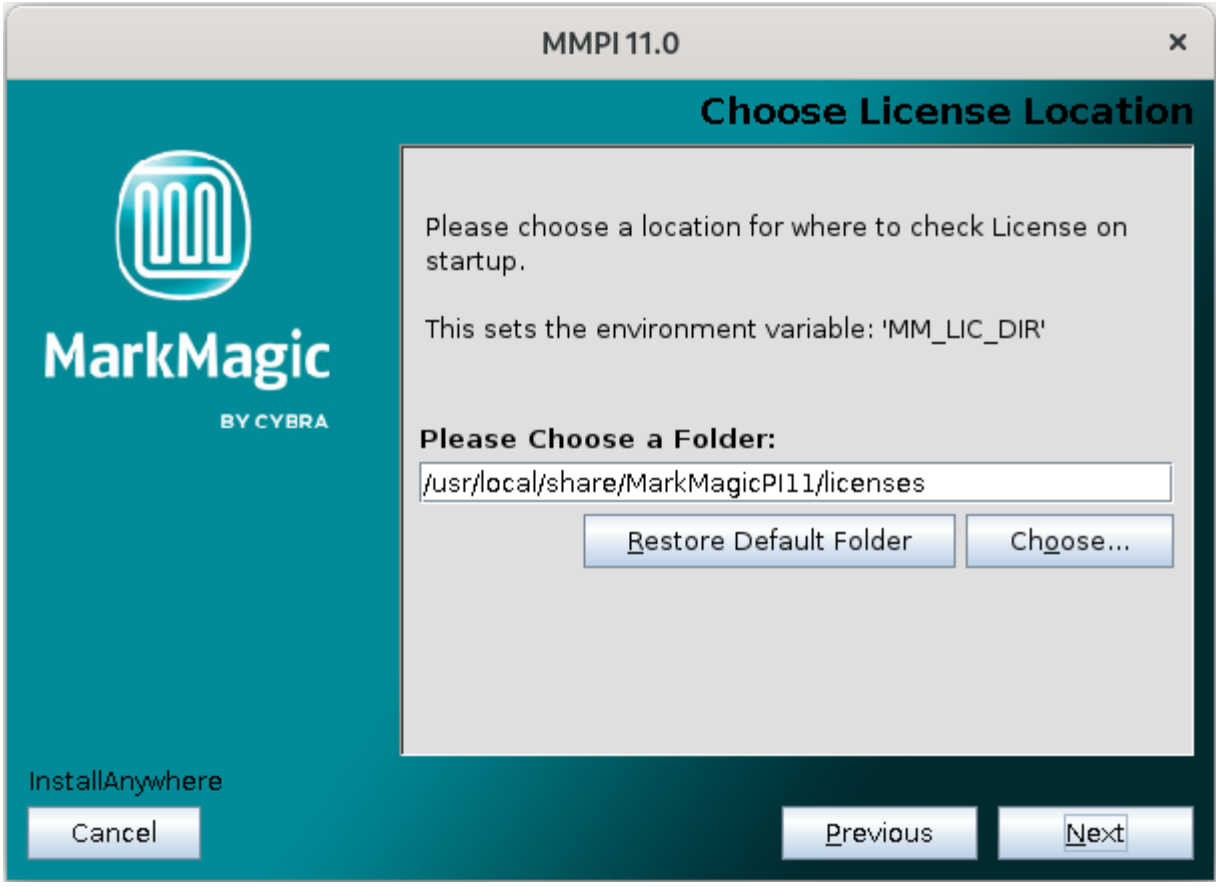
Also, on this screen, provide your HTTPS Key Pass. (Consult your system administrator if you do not know what this is.)

Click 'Next' and you will be asked to configure the MMPI default ports…



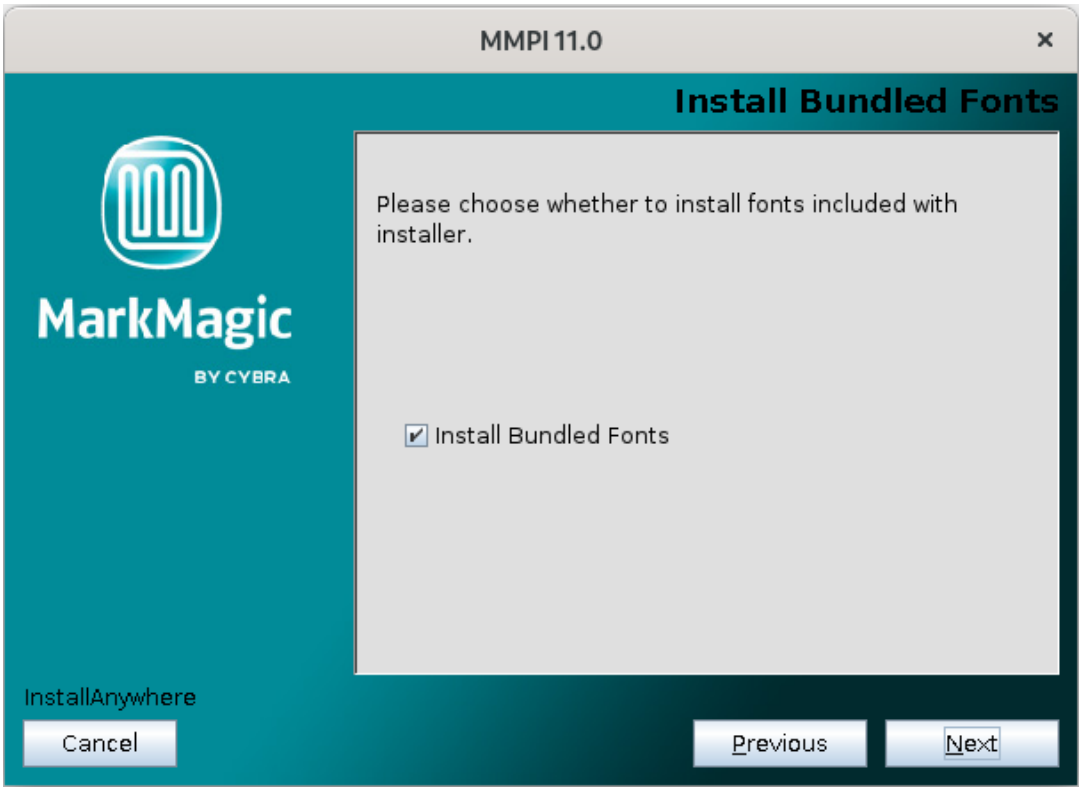
Only in certain unique network environments would you need to change these port values from their default. For example, if you plan to run two instances of Apache Tomcat on the same server, you might need to specify a different port here. In a typical MarkMagic PI installation, these values can be kept as the default.

Proceed to the next step where you can define where MarkMagic PI will search for license files…

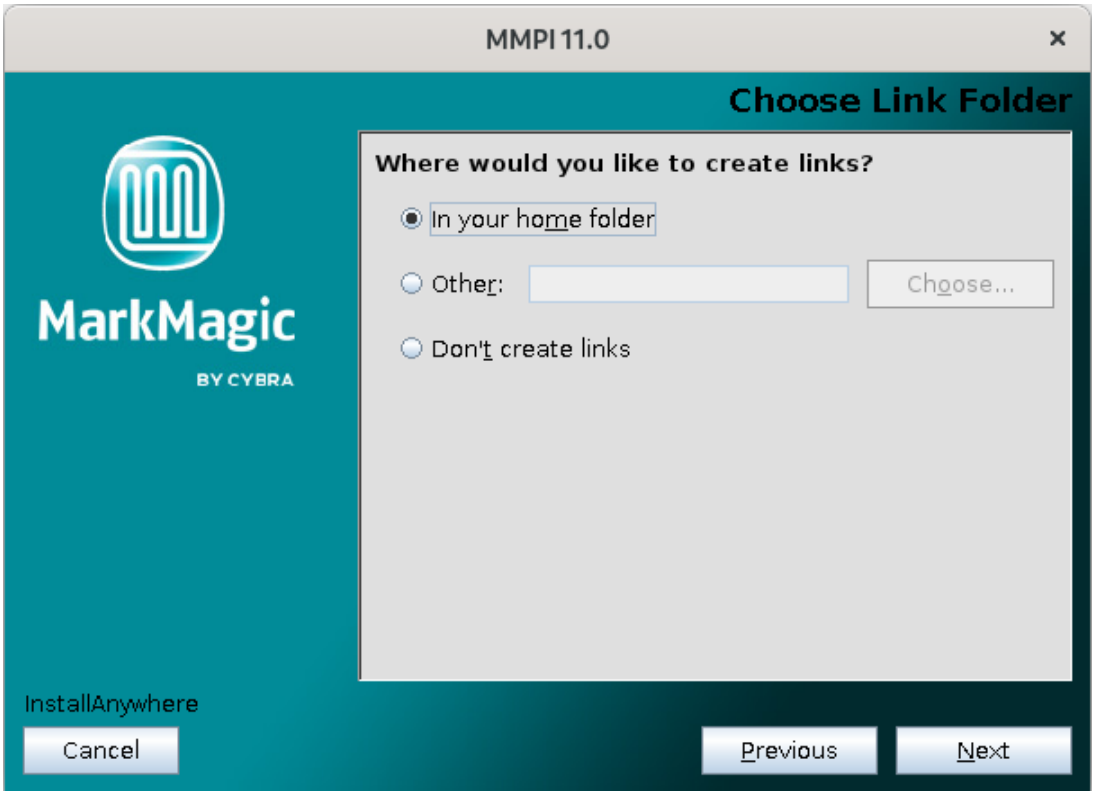


The path you choose here will set the Linux 'MM_LIC_DIR' environment variable. MarkMagic PI has a feature where upon server startup, it can automatically detect and load license files provided to you by CYBRA. This is the path where MarkMagic PI will search for the license files. Though this location can be customized, it is recommended to keep the default path "../licenses" within the previously defined 'MM_H2_DIR' path.

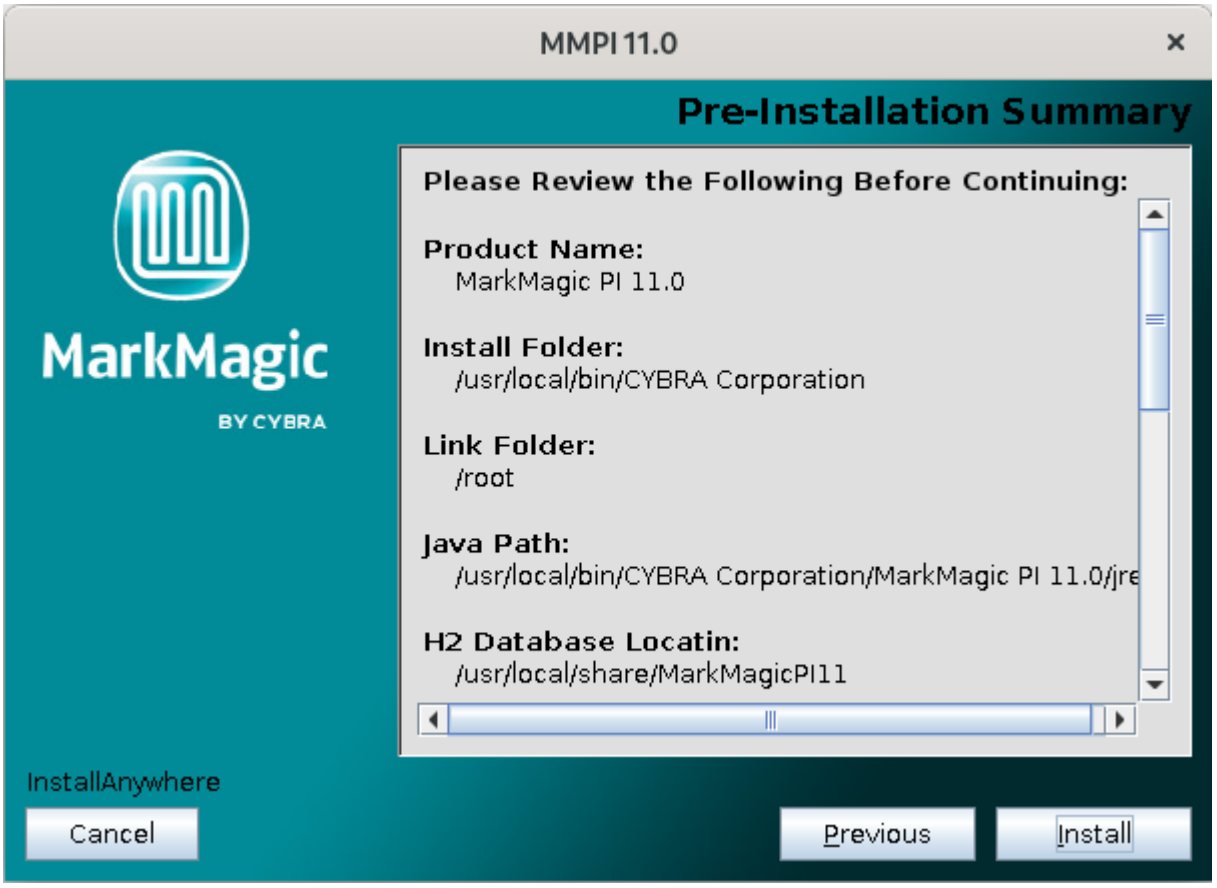
Click next and you will be asked if you wish to install the bundled fonts. This is very important if you plan to use MarkMagic PI to create PDF output. It is recommended to leave this option checked.



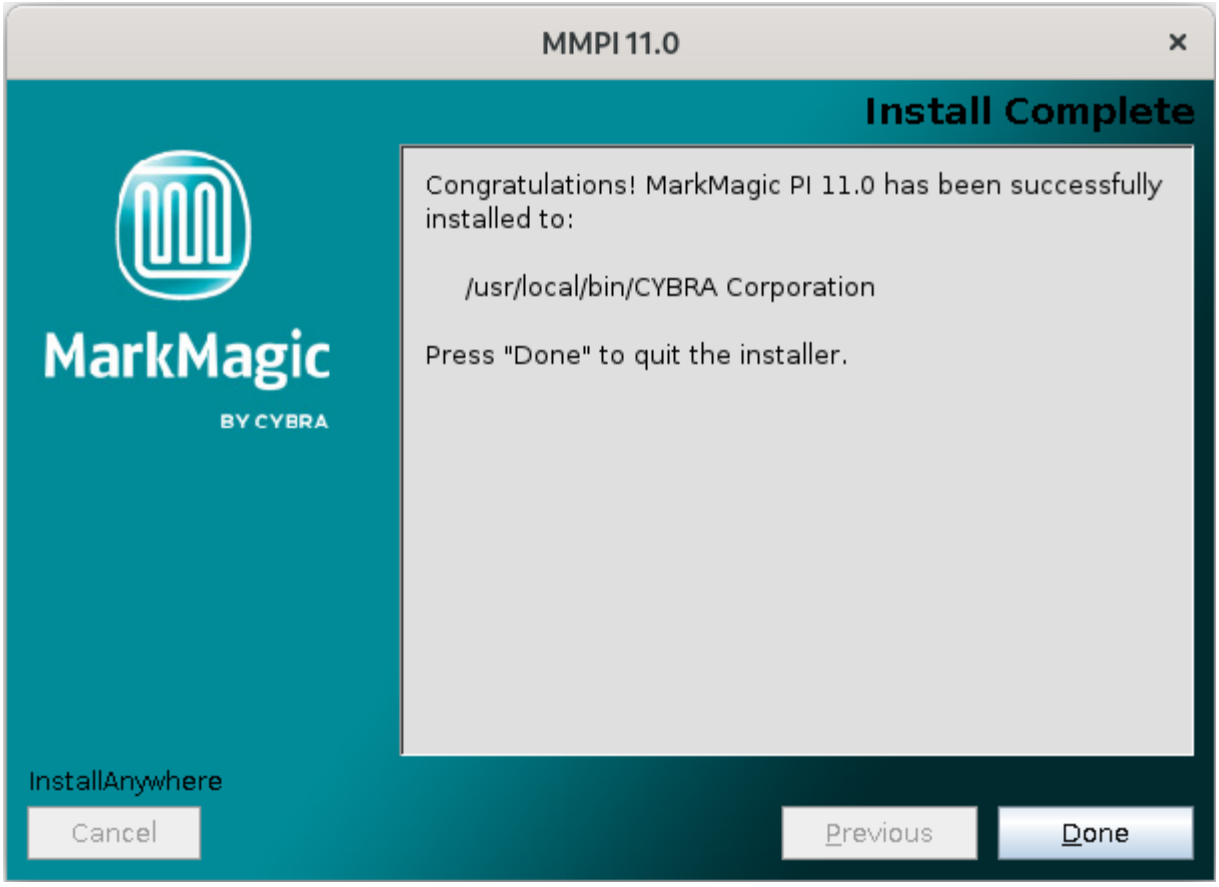
Click next and you can choose where program shortcuts will be placed…



After making your decision, click next and you will be brought to the installation overview…



Click ‘Install’ to install MarkMagic PI 11.0!



MarkMagic PI 11.0 is now installed! Click Done to exit the installer. You can move to the next section of the install guide where we will discuss starting the MMPI service, connecting to, and managing the MarkMagic PI server.

MMPI Install in a Command Line Environment:

Follow these steps if your Linux OS **does not** use a graphical window manager. Full GUI installation instructions are provided earlier in the guide.

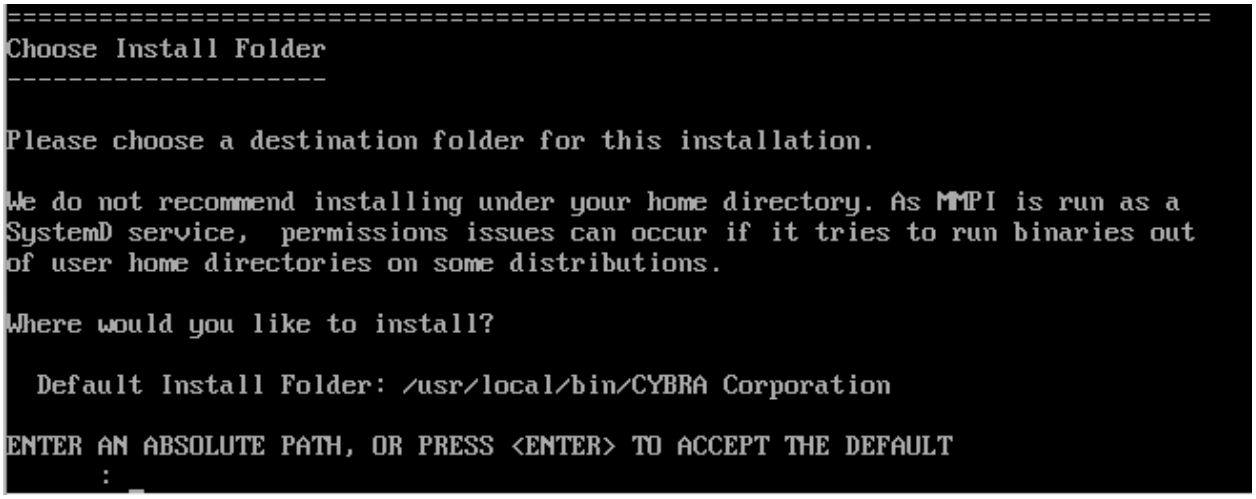
Navigate to the directory where you downloaded the MMPI Linux Standalone installer BIN file from www.CYBRA.com.

Run the MMPI installer with super user authority:

```
sudo ./MMPI110Setup.bin
```

```
[ken@vbox Downloads]$ sudo ./MMPI110Setup.bin
[sudo] password for ken:
Preparing to install
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...


Graphical installers are not supported by the VM. The console mode should be used instead...

===============================================================================
MarkMagic PI 11.0                              (created with InstallAnywhere)
-------------------------------------------------------------------------------

Preparing CONSOLE Mode Installation...




===============================================================================
Introduction
------------

InstallAnywhere will guide you through the installation of MarkMagic PI 11.0.

It is strongly recommended that you quit all programs before continuing with
this installation.

Respond to each prompt to proceed to the next step in the installation.  If
you want to change something on a previous step, type 'back'.

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE:
```

Press ENTER through the initial choices and you will be asked for the destination folder where the MarkMagic PI 11.0 binaries will be installed.



This is the location where the core MarkMagic PI server files will be installed. It is recommended to keep the default path, but if a different location is desired, please choose a path that is not located within a users' /home and one that SystemD has read & write access to. Click 'Next' to configure the Java runtime.

As noted earlier in the install guide, the MarkMagic PI installer ships with Java runtime version 11 and will use this as the default java runtime. If you prefer to use your own installation of java, please specify the path to the JRE here and press ENTER.

You will be asked to set the path for the location of the H2 Database.

The path you define here will create an 'MM_H2_DIR' environment variable. The default location provided is ideal as it is a location that SystemD should have read/write access to. If a different path is desired, specify that here. Please note that the MMPI service must have read/write access to this path.

For brand new installs, when the MMPI server starts for the first time, it will create a new MarkMagic.mv.db database file in this location. Think of this path as the main MarkMagic PI Data location. Log files, custom fonts, print queues, etc. will all be created and stored here by the MMPI service.

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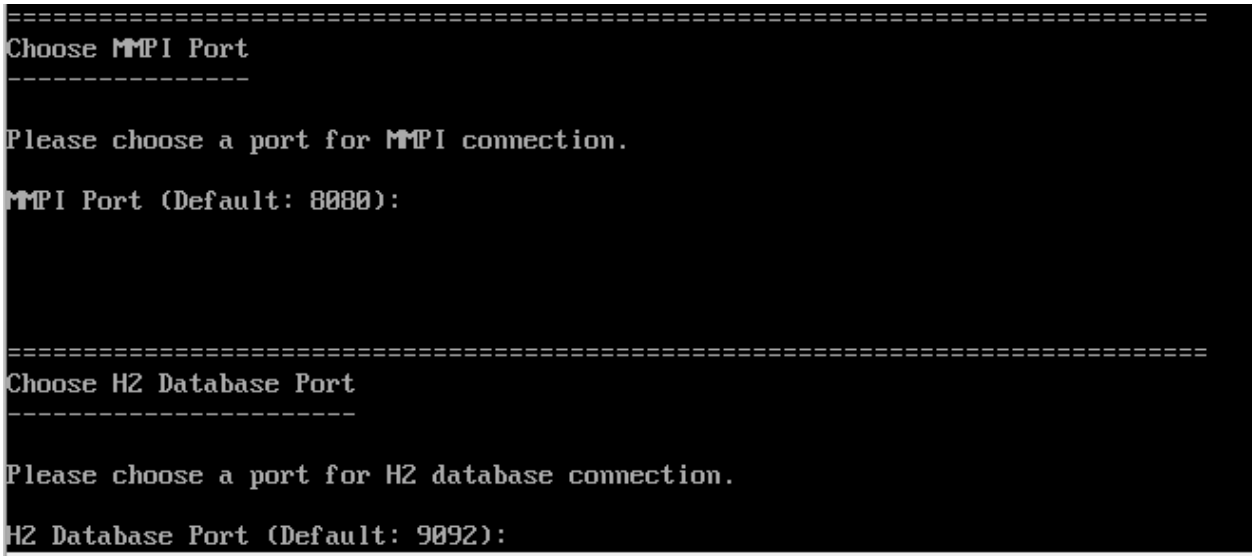
Proceed to the next step where you can choose to configure HTTPS if it is a requirement in your network environment…

If you do not wish to use HTTPS, then leave the option set to false. If you do plan to use HTTPS, choose 1 for true and set the path to where you keep your HTTPS Key File. (Consult your system administrator if you do not know what this is.)

You will also be asked to provide the path to your HTTPS Key Pass. (Consult your system administrator if you do not know what this is.)

Proceed and you will be asked to configure the MMPI default ports…



Only in certain unique network environments would you need to change these port values from their default. For example, if you plan to run two instances of Apache Tomcat on the same server, you might need to specify a different MMPI port here. In a typical MarkMagic PI installation, these values can be kept as the default.

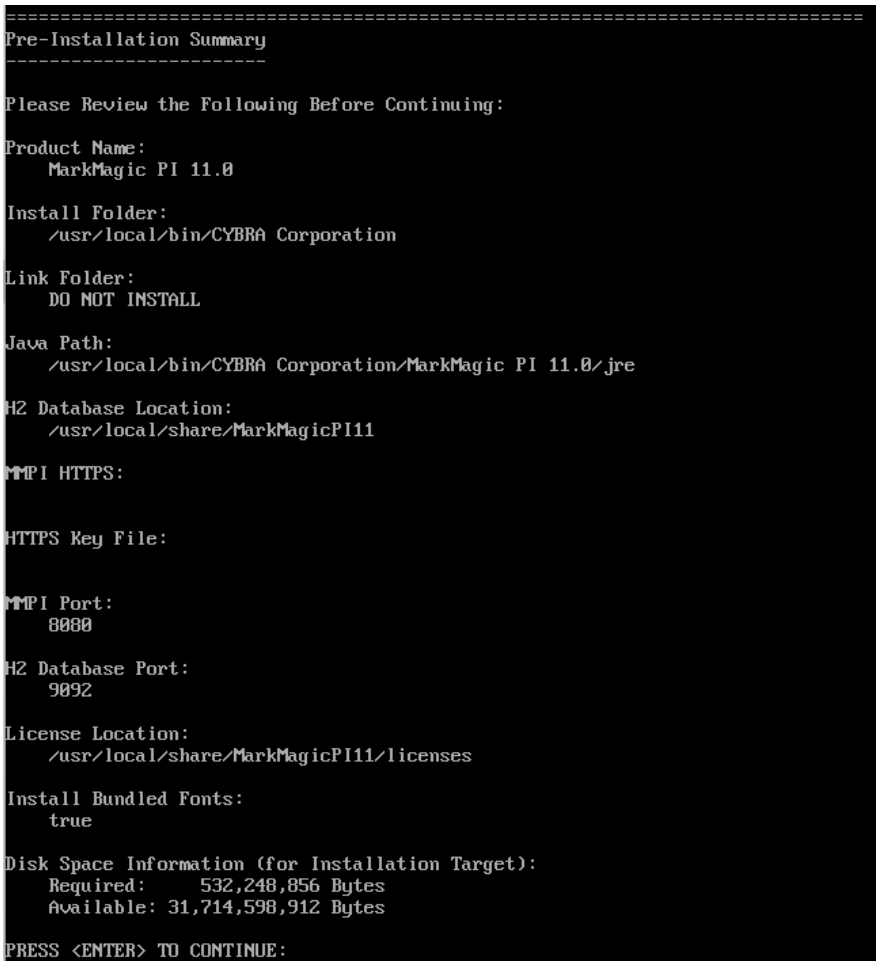
Proceed to the next step where you can define where MarkMagic PI will search for license files…

The path you choose here will set the Linux 'MM_LIC_DIR' environment variable. MarkMagic PI has a feature where upon server startup, it can automatically detect and load license files provided to you by CYBRA. This is the path where MarkMagic PI will search for the license files. Though this location can be customized, it is recommended to keep the default path "../licenses" within the previously defined 'MM_H2_DIR' path.

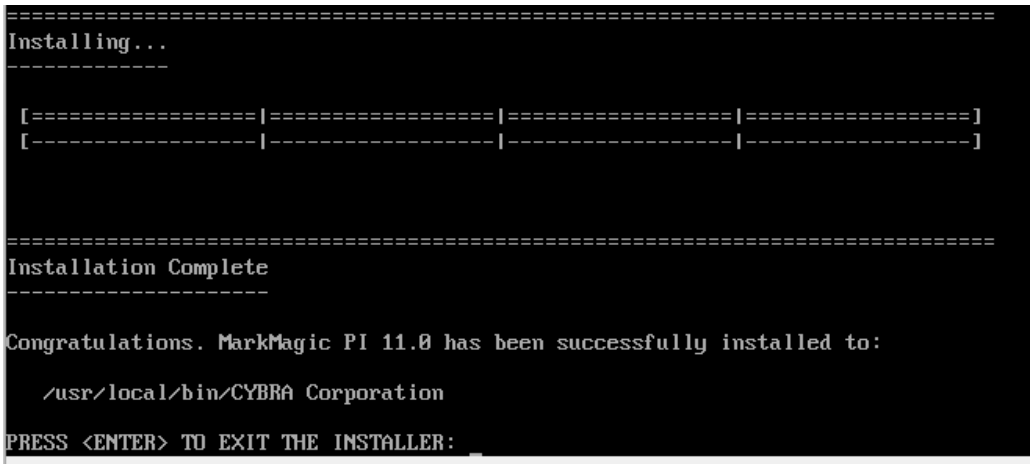
Click next and you will be asked if you wish to install the bundled fonts. This is very import if you plan to use MarkMagic PI to create PDF output. It is recommended to leave this option set to true.

Proceed to the next step and choose where program shortcuts will be placed…

After making a decision, Press ENTER and you will be brought to the installation overview…



Press Enter to install MarkMagic PI 11.0!



MarkMagic PI is now installed! Press Enter to exit the installer. You can move to the next section of the install guide where we will discuss starting, connecting to, and managing the MarkMagic PI server.

MMPI Linux "Silent" Install:

For system integrators that require instant deployment of an MMPI installation, there is one final option for installing MMPI called the silent method. This installation procedure requires no user input and can be customized for your environment using a special properties file. Please contact CYBRA Support help@CYBRA.com for more information about this installation method.

C. Uninstalling MarkMagic PI

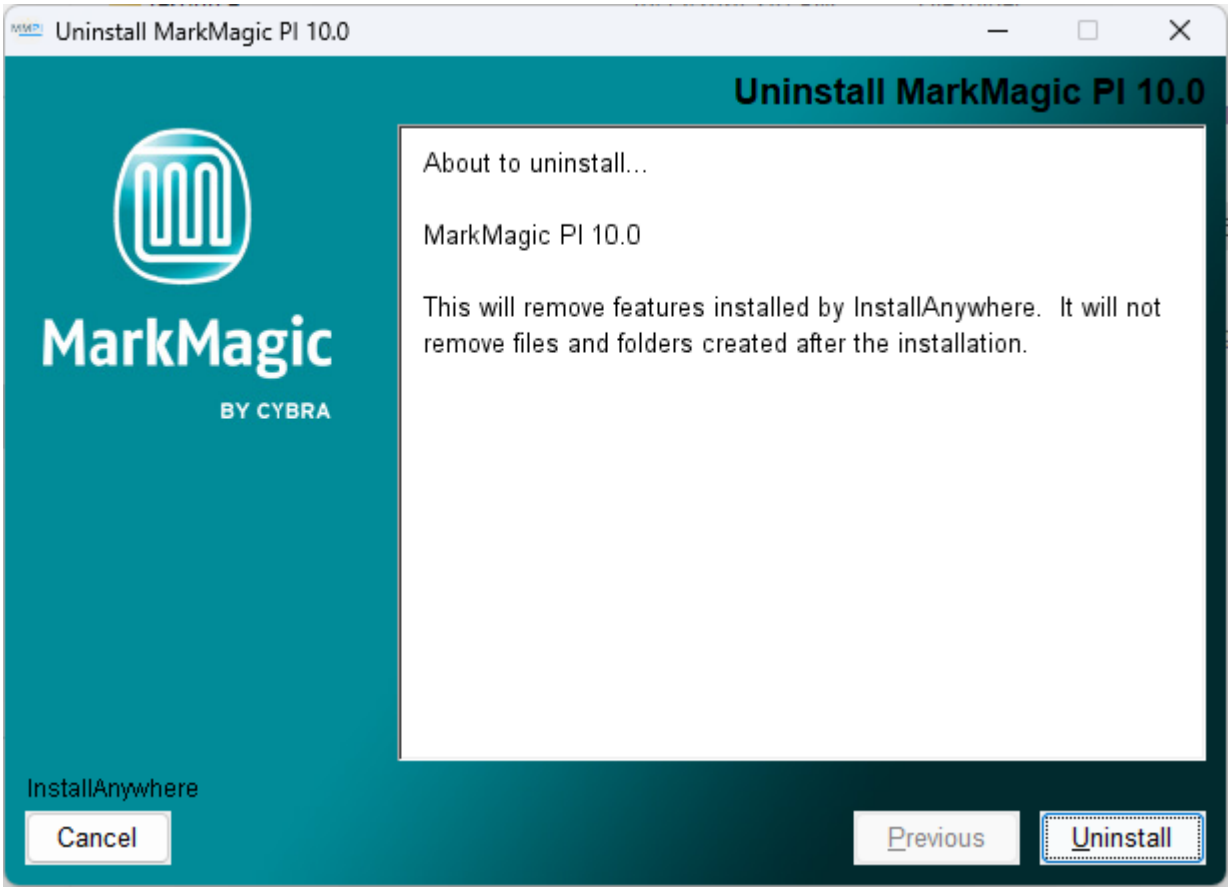
To properly uninstall MMPI, the MarkMagic PI service must first be stopped. This is handled differently depending on which operating system you are running. Please see the section "Starting and Stopping the MarkMagic PI Service" later in this document for notes on stopping the service.

Once the service is stopped, the uninstaller program can then be ran directly from the 'Uninstall_MarkMagic PI ##.#' directory which is found within the 'MarkMagic PI ##.#' install folder on your system. The steps for doing so are different depending on the operating system and are outlined on the following pages.

What is common between operating systems, though, is the MARKMAGIC.h2.db database file will be left behind within the 'MM_H2_DIR' environment variable path previously defined by the old installation. This database file contains everything from the previous MMPI install. All format designs, printer definitions, user profiles, print monitors, etc. are contained within this database file. If upgrading to a newer version of MMPI, the database can be left in place as it will be detected and upgraded to the latest version upon starting the new version of MMPI. Everything contained within the database will then be available in the new version of MMPI.

MarkMagic PI Windows Uninstallation

Navigate to the Windows MMPI installation directory. This is typically "C:\Users\USERID\CYBRA Corporation\MarkMagic PI ##.#\". (Where ##.# is the version number.) Within that folder is another folder named "Uninstall_MarkMagic PI ##.#". Double click on "Uninstall MarkMagic PI ##.#.exe" to run the uninstall program.

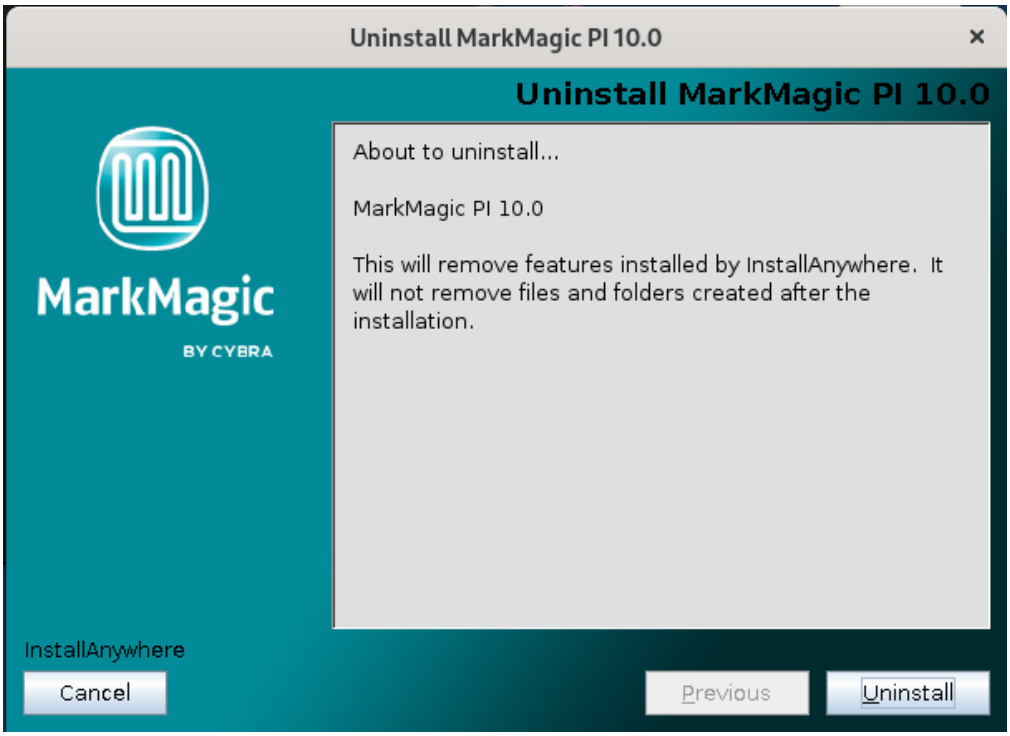


Simply click the 'Uninstall' button to begin the uninstall of MarkMagic PI. Click 'Done' once the process is completed.

MarkMagic PI Linux Uninstallation

Open the terminal and at the command line, navigate to the Linux MMP installation directory. This is typically "/usr/local/bin/CYBRA Corporation/MarkMagic PI ##.#". (Where ##.# is the version number.) Within that folder is another folder named "Uninstall_MarkMagic PI ##.#". As super user, execute the uninstall program:

```
sudo "./Uninstall MarkMagic PI 10.0"
```



Simply click the 'Uninstall' button to begin the uninstall of MarkMagic PI. Click 'Done' once the process is completed. If a command line version of the uninstaller is presented (possibly due to running Linux without a window manager), simply press ENTER to proceed with the uninstall.

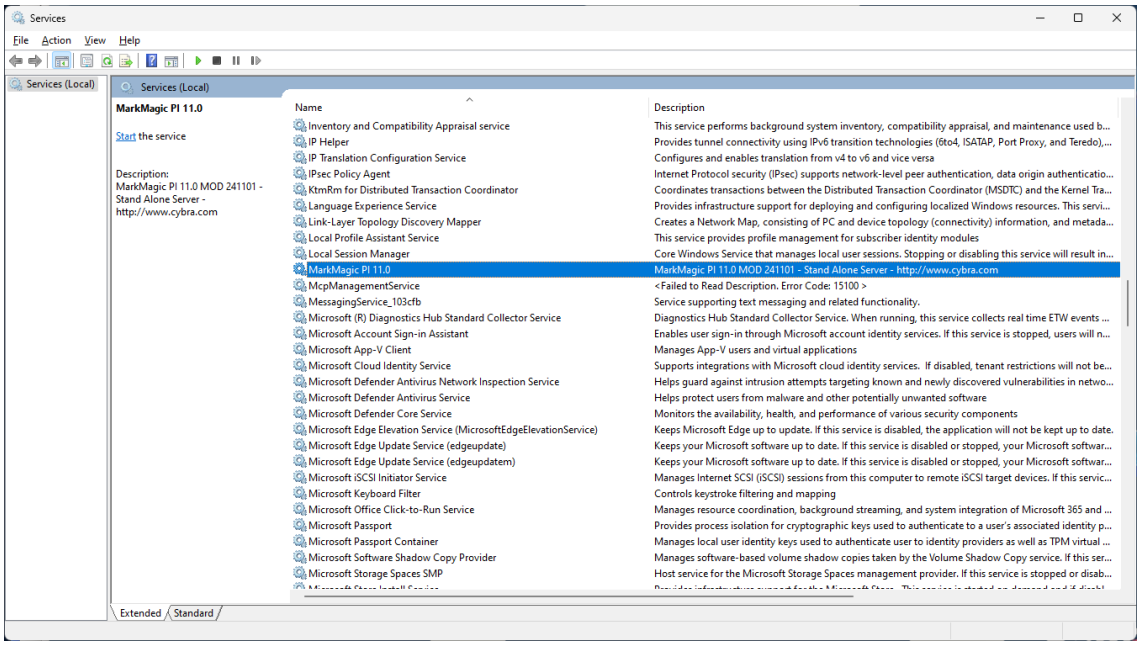
D. Starting and Stopping the MarkMagic PI Service

MarkMagic PI runs as its own service rather than requiring the use of a separate installation of Apache Tomcat. You can start and stop MarkMagic PI like you would any other service that is installed on your PC or server. The methods for doing so are different depending on the OS you installed MarkMagic PI on. This section of the guide will describe how to start and stop the MMPI service in Windows and Linux.

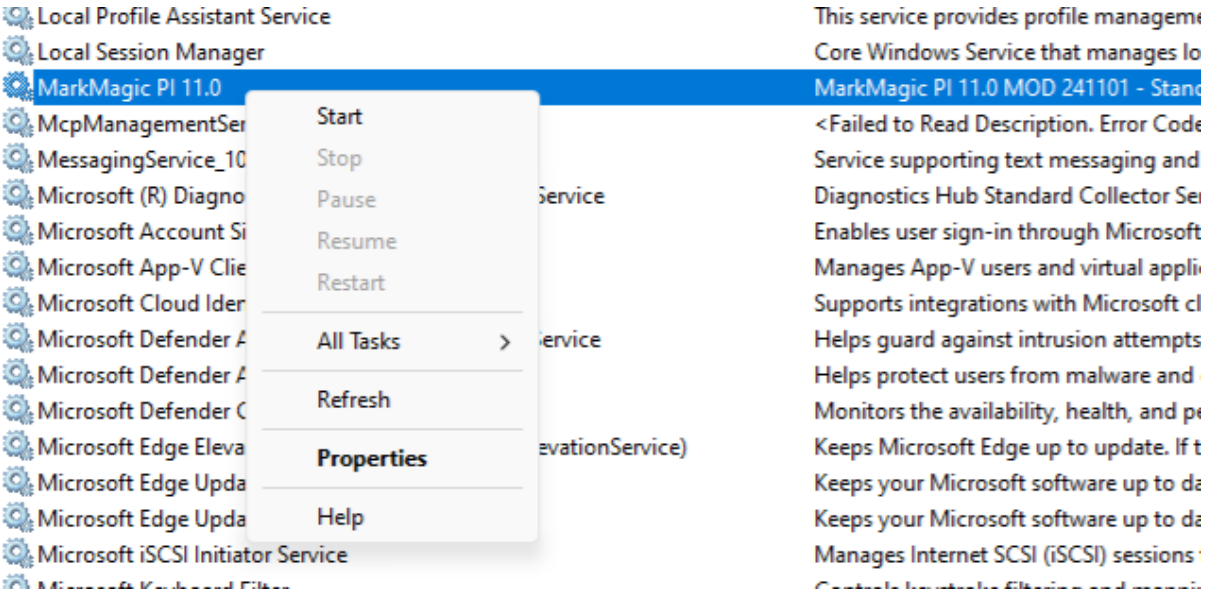
Starting and Stopping the MarkMagic PI Service in Microsoft Windows

Open the Windows Services GUI by searching for 'services' in the start menu search bar or by going to Start >> Run >> **services.msc**

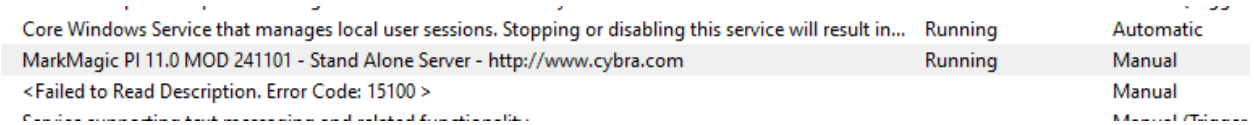
Find MarkMagic PI 11.0 in the list.



Right click MarkMagic PI 11.0 and choose 'Start':



You should see the MarkMagic PI 11.0 service listed as “Running”:



The MarkMagic PI server is now active! We will discuss connecting to and installing a license for your new MarkMagic PI installation later in this guide.

To stop the MarkMagic PI server in Windows, simply follow the same steps used for starting the server, except choose ‘Stop’ on the right click menu.

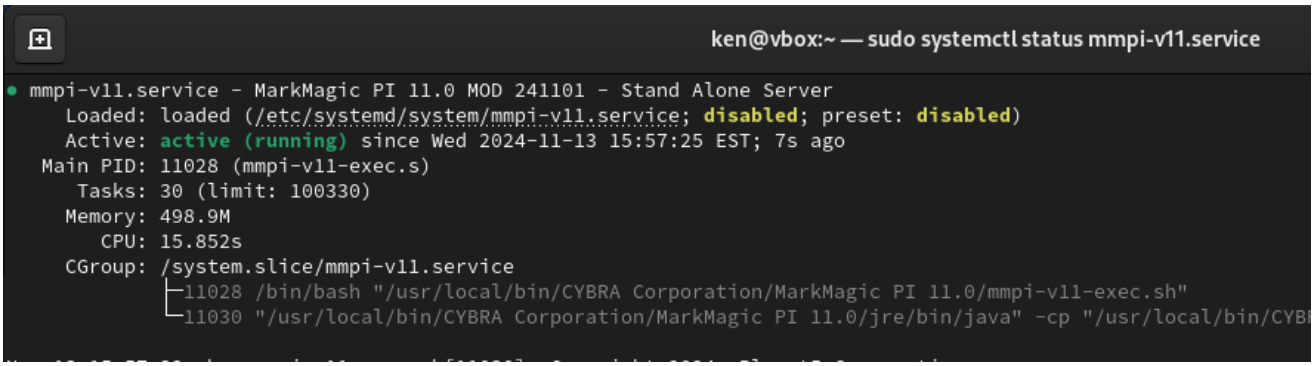
Starting and Stopping the MarkMagic PI Service in Linux

MarkMagic PI utilizes the Linux SystemD service manager. Start the MMPI service, open a Terminal and run this command:

```
sudo systemctl start mmpi-v11.service
```

To check the status of the MMPI service, run the command:

```
sudo systemctl status mmpi-v11.service
```



The service should show as **active (running)**. Various other stats will also be visible such as service uptime, memory usage, etc.

The MarkMagic PI server is now active! We will discuss connecting to and installing a license for your new MarkMagic PI installation later in this guide.

To stop the MarkMagic PI service in Linux, run the command:

```
sudo systemctl stop mmpi-v11.service
```

E. Connect to the MMPI Web App

Once the MarkMagic PI service is started, you are ready to connect to MMPI with a web browser.

Enter the following URL in the address bar:

http://localhost:8080/MMPI/

If you are connecting to MMPI from a different system on the same network, you would need to change localhost with the IP address of the server that it was installed on.

http://xxx.xxx.xxx.xxx:8080/MMPI/

You should be presented with sign on screen for MMPI where you can use the default credentials below to sign in.

User ID: MMADMIN
Password: mmadmin

Proceed to Section F for installing your MMPI license and Section G for installing JMagic.

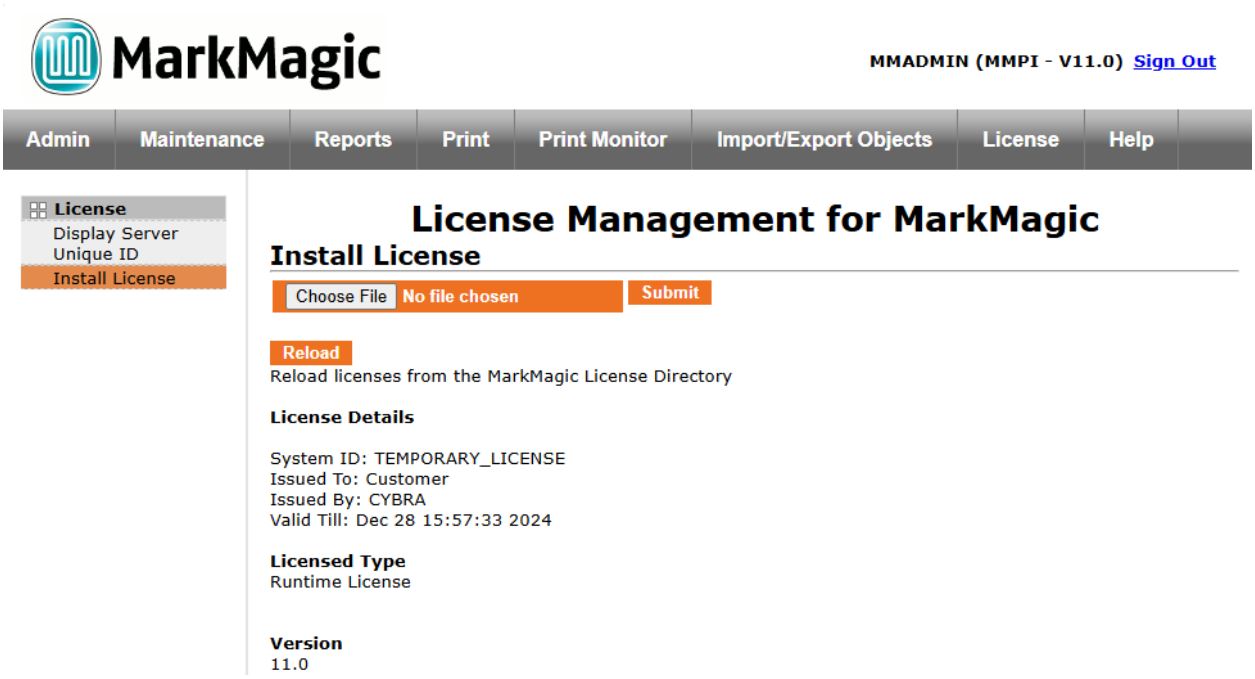
F. Applying the License

If this is new install or you upgraded to a new version of MarkMagic PI (Example 10.0 -> 11.0), a new license key will be required.

Once signed into the system, you will need to apply the license file given to you by CYBRA.

To obtain a license from CYBRA, you will need to provide your MAC address for the system that the MarkMagic PI server is installed on. The license will be emailed to you in the form of a *.*lic* file. In the MMPI Web Application, navigate to the **License** option. You will then see more options displayed on the left of the screen below the grey bar. Click on the **Display Server Unique ID** if you need to get your MAC address.

Click on the **Install License** button. This is where you can install your new license. Click the "Browse" button, select the file that was given to you by CYBRA and then click "Submit". Once the license is submitted and accepted, you will see the license specific details populated on the page. It will list the license type, expiration dates, and any addon options you may also be licensed for.



Your license is now installed and you are ready to use MarkMagic PI 11.0!

Further help and documentation specific to MMPI can be found on CYBRA's website:

https://www.cybra.com/mmpihelp/v110/WelcometoMarkMagicPI.html

G. JMagic 11.0 Installation

You can install JMagic 11.0 on *any* PC running a modern version of Microsoft Windows OS.

Minimum Hardware Requirements:

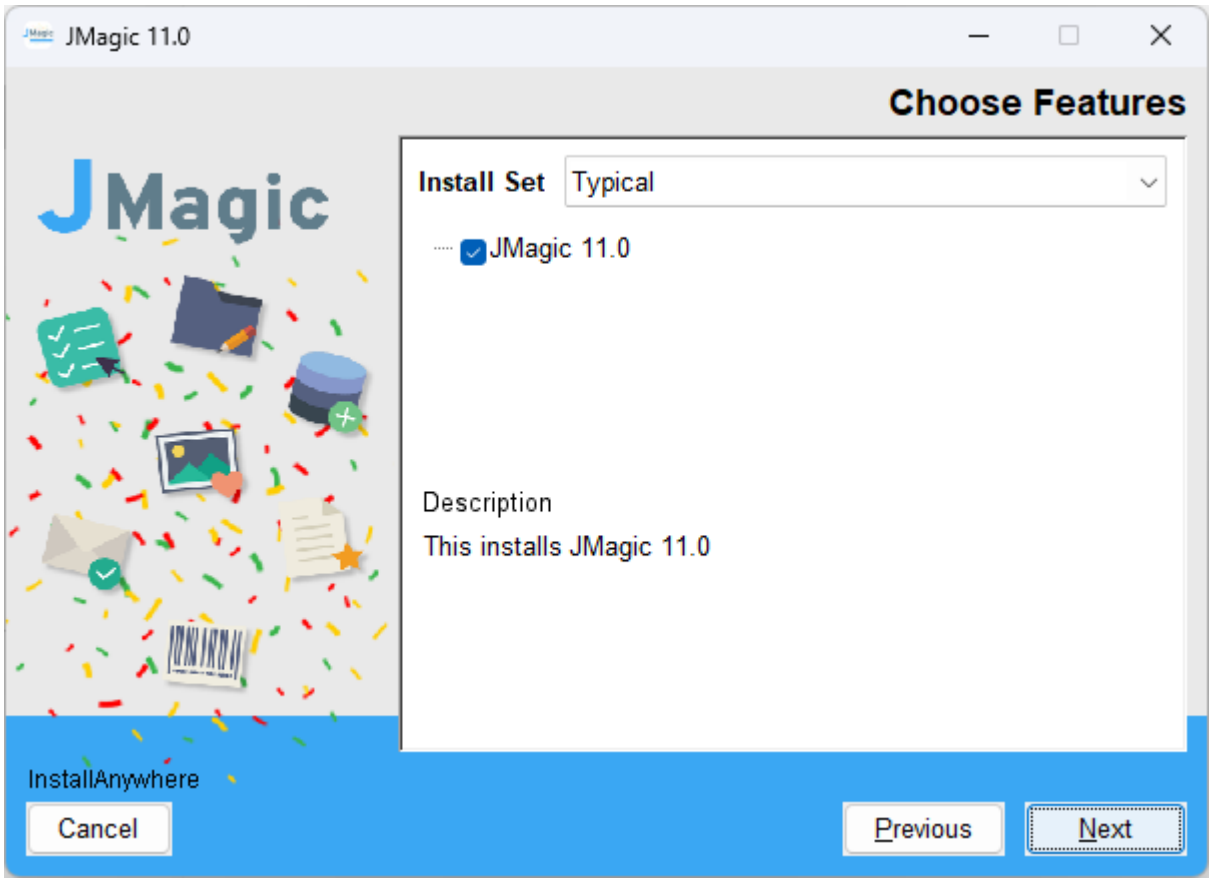
Processor	1.5 GHz Intel Pentium IV, or higher
Display	SVGA, 1152x864 (recommended minimum resolution)
Memory requirements	512MB RAM
Disk space requirements	150 MB for JMagic 70 MB for Java Virtual Machine

Note: To use JMagic 11.0, MarkMagic PI version 11.0 must be active and have a developers license installed.

Download the JMagic11 install zip file from CYBRA's website and extract the enclosed file to a temporary subdirectory.

Double click the JMagic11Setup.exe file within to launch the JMagic InstallShield Wizard and follow the prompts.

JMagic Installation



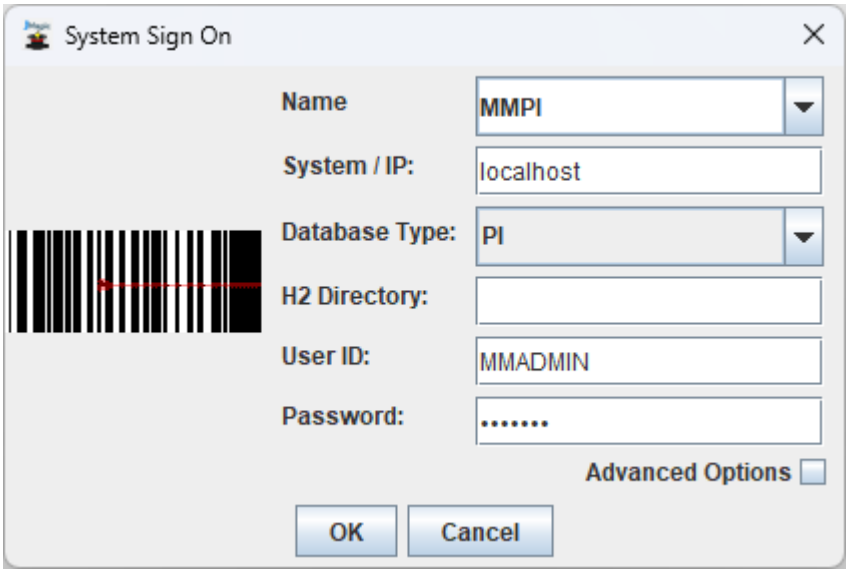
The wizard will prompt you to select an existing subdirectory, or create a default product destination subdirectory, for example: *"X":\Program Files\CYBRA Corporation\JMagic 11.0*. (Where "X" is your drive letter) as well as the Follow the steps to complete the installation.

Default Install Log Location: "X":*CYBRA Corporation\JMagic 11.0\Uninstall_JMagic 11.0\Logs*

Navigate to the Start menu Programs folder, then CYBRA Corporation, and then click on the icon "JMagic 11.0" to start JMagic. Sign on to the MMPI System (localhost or MMPI server IP address) to initiate communications with MarkMagic 11.0.

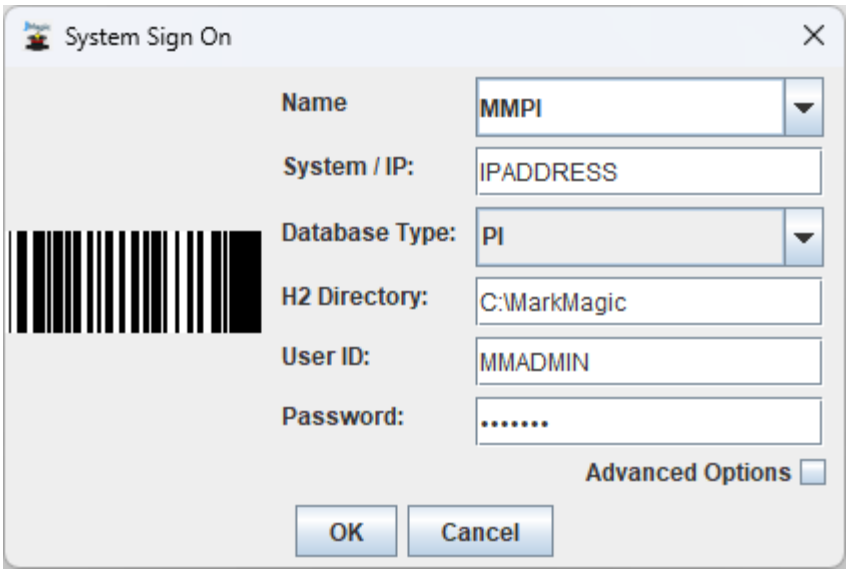
Starting JMagic

If you are connecting to an installation of MMPI that is running on the same system as the one you have JMagic installed on, then you can simply put `localhost` for the "System/IP:" parameter at logon. You can also provide a custom name for your connection so that you can quickly recall the connection settings the next time you start JMagic.



MMPI ships with two default user IDs/PWs mmadmin/mmadmin and mmuser/mmuser. We recommend a system admin create/edit user accounts for their organization via the MMPI Web admin interface.

If you are trying to connect to an installation of MMPI that is on a different machine than the one you are running JMagic on, then you need to specify the IP ADDRESS of the server where MMPI is installed as well as the full path to the MarkMagic.mv.db database on that server.



Click OK to sign on to JMagic 11.0 and connect to the MMPI server.

Further help and documentation specific to JMagic can be found on CYBRA's website:

https://www.cybra.com/jmhelp/v110/WelcometoJMagic.html

MarkMagic Support :
914-963-6600 Option 4
• Fax: 716-712-0666 •
help@CYBRA.com

We identify with success.