iView^2 Installation Guide

Web Server Version

Version 5.7.04 January 2022

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Introduction

Purpose

iView^2 is the Advantech B&B SmartWorx Element Management System (EMS) for SNMP-based configuration and management of chassis and module products. The purpose of this document is to identify the installation instructions for the iView^2 web-based application.

Installation Requirements

The following requirements must be met before iView^2 can be installed:

1) The Java JRE (Java Runtime Environment) Standard Edition version 1.7 or greater must be installed
2) The Apache\Tomcat 6 or greater http server and servlet container must be installed
3) The MySQL 5.1 or greater relational database management system (rdms) must be installed

NOTES:
All the requirement applications are included in the iView^2 installation release.

iView^2 is a Java-based solution and requires a different web container environment than Microsoft Internet Information Server (IIS). We will be recommending the Apache/Tomcat HTTP and Servlet Container. Apache/Tomcat 6 was used during development and testing.

iView^2 uses a database for all configuration information and report data. We will be recommending the MySQL database system. MySQL 5.1 was used during development and testing.

iView^2 is an Internet-based application so the main user GUI is through a web browser. The following browsers are supported:

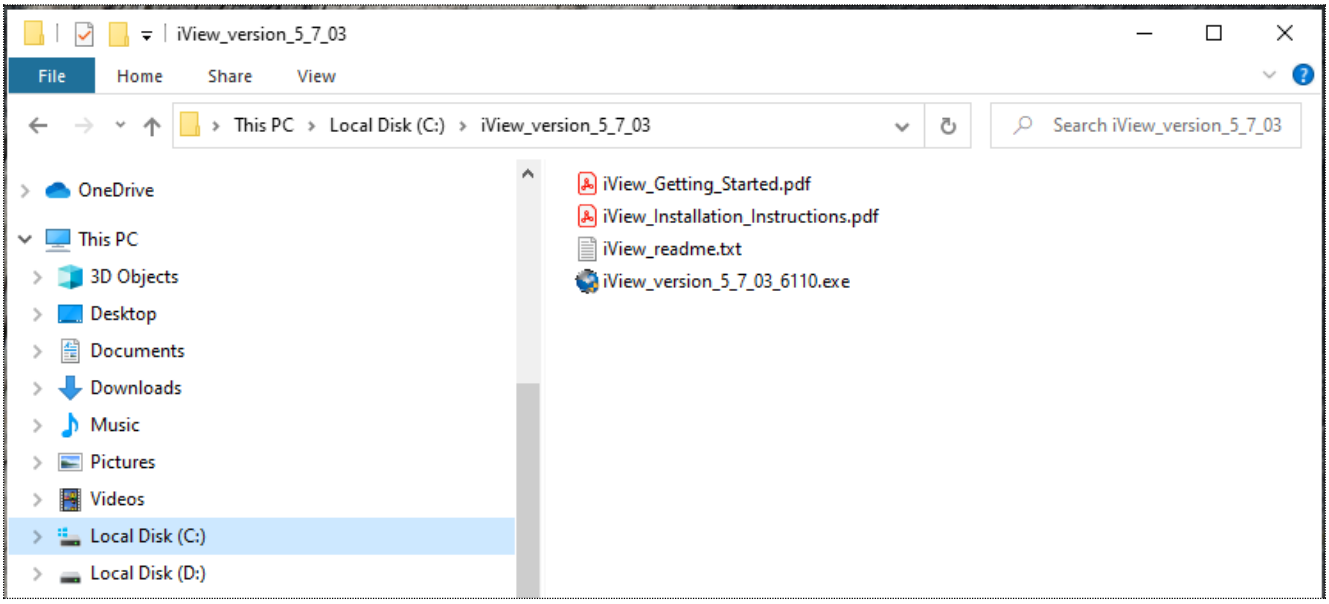
MS Internet Explorer v10 or greater
Google Chrome v35 or greater
Mozilla Firefox v15.0 or greater

Due to the size of the requirement applications, this version of iView^2 is downloaded in zip file compressed format. The downloaded zip file must be uncompressed before performing the installation.

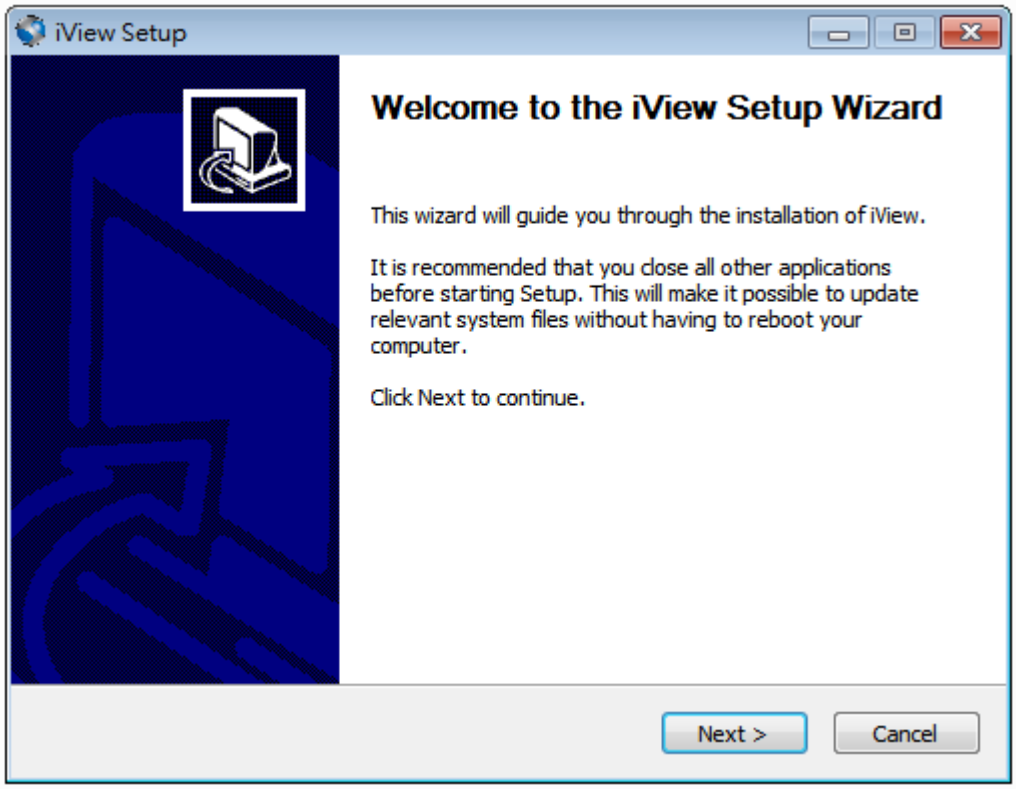
Step 1: Installation Instructions – Load Necessary Install Files

iView^2 is a Java-based application. iView^2 can be downloaded from the Advantech B+B SmartWorx website ("http://advantech-bb.com") and comes packaged as a compressed archive file entitled "iView_version_x_x_xx.zip". The following installation instructions will guide a user through the iView^2 installation process.

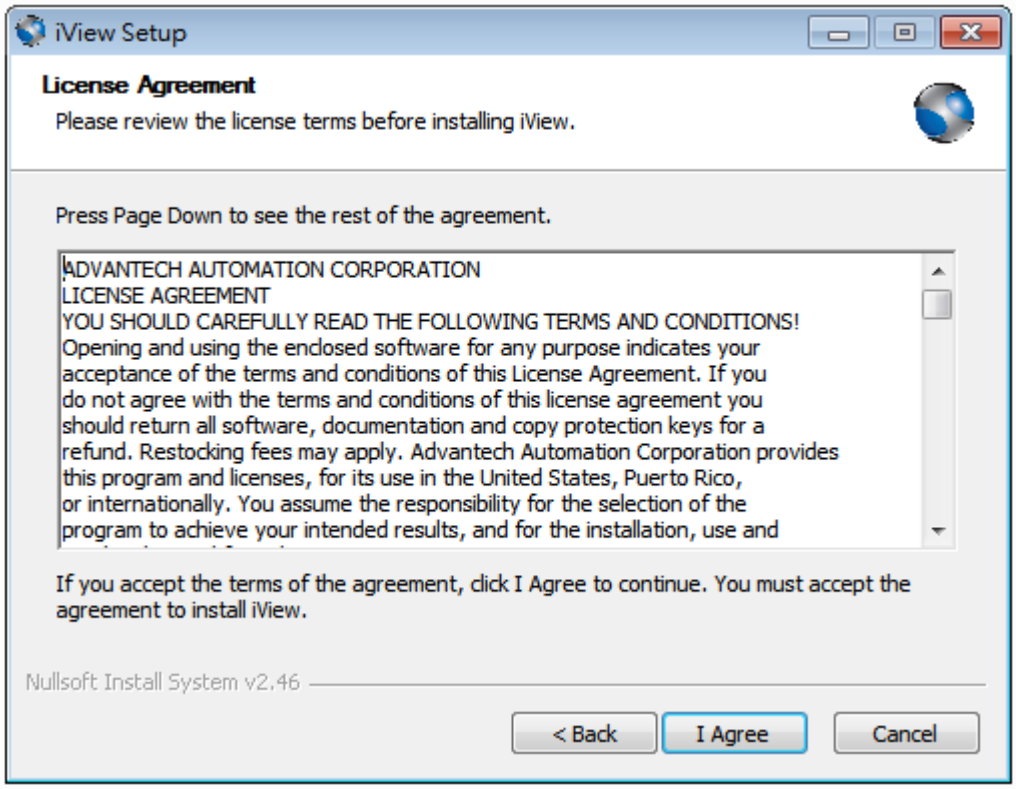
1) Unzip all files in the "iView_version_x_x_xx.zip" so that they reside in a directory named "iView_version_x_x_xx", on the C:\ drive.



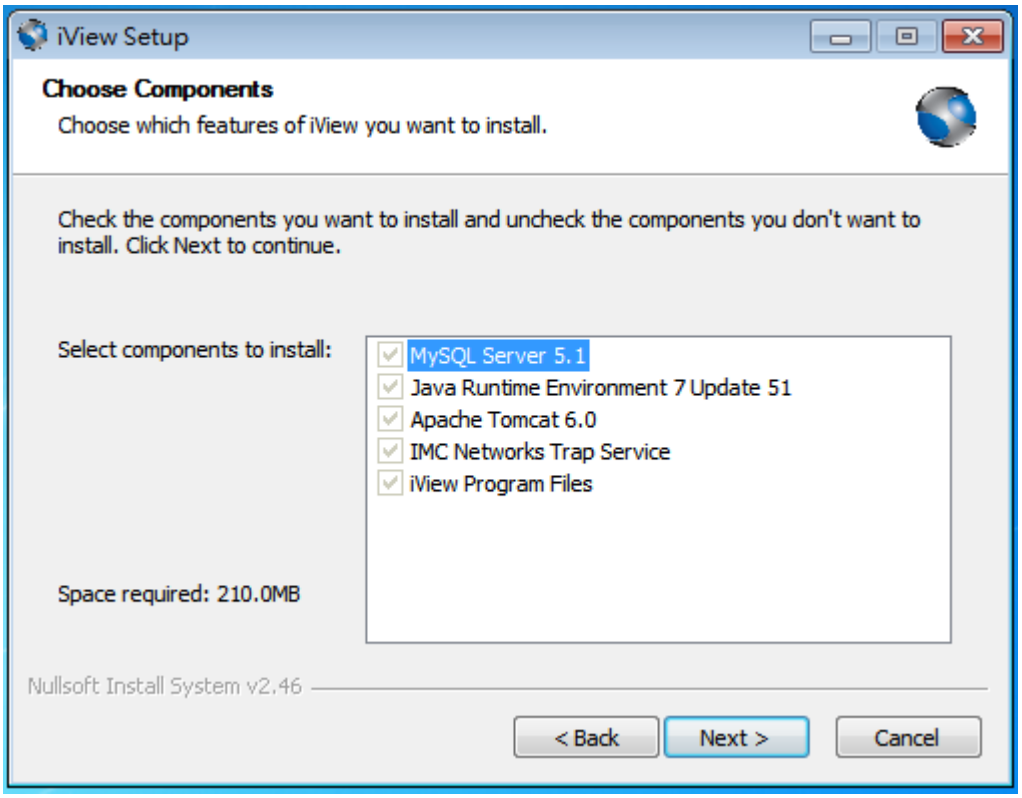
2) Start the installation process by double-clicking the "iView_version_x_x_xx.exe" file. You will be presented with the "Welcome" screen. Press the "Next" button to continue.



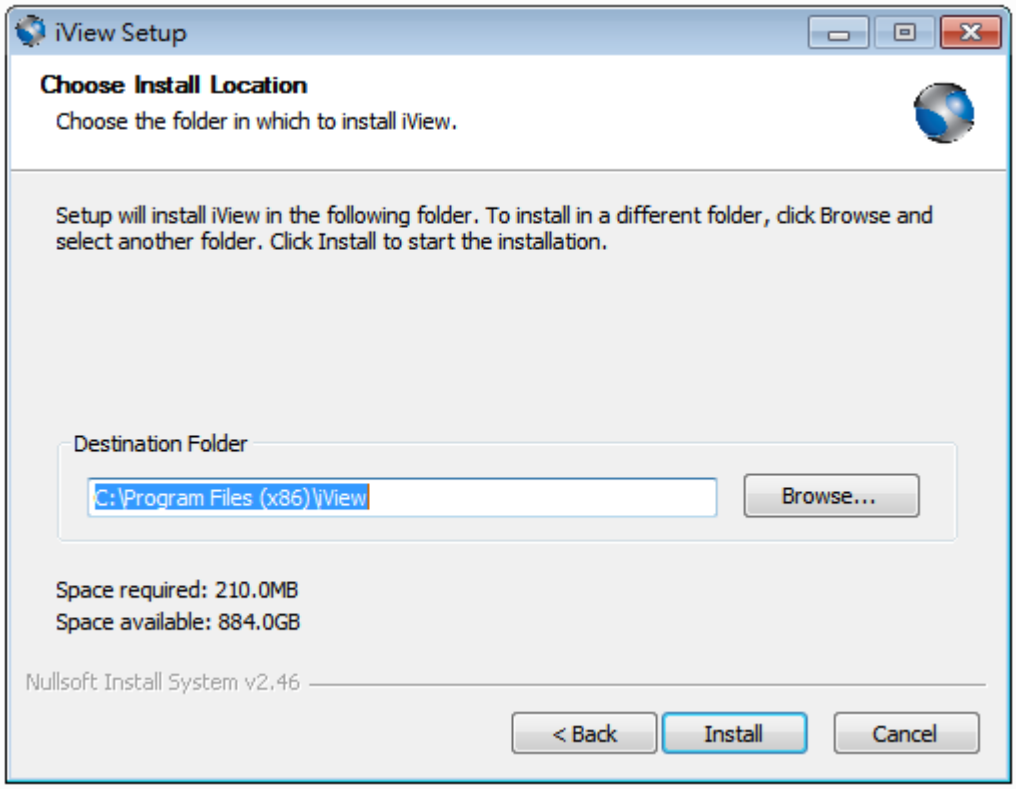
3) The next screen is the "License Agreement" screen. Please take a moment to read through the license agreement and press "I Agree" when complete.



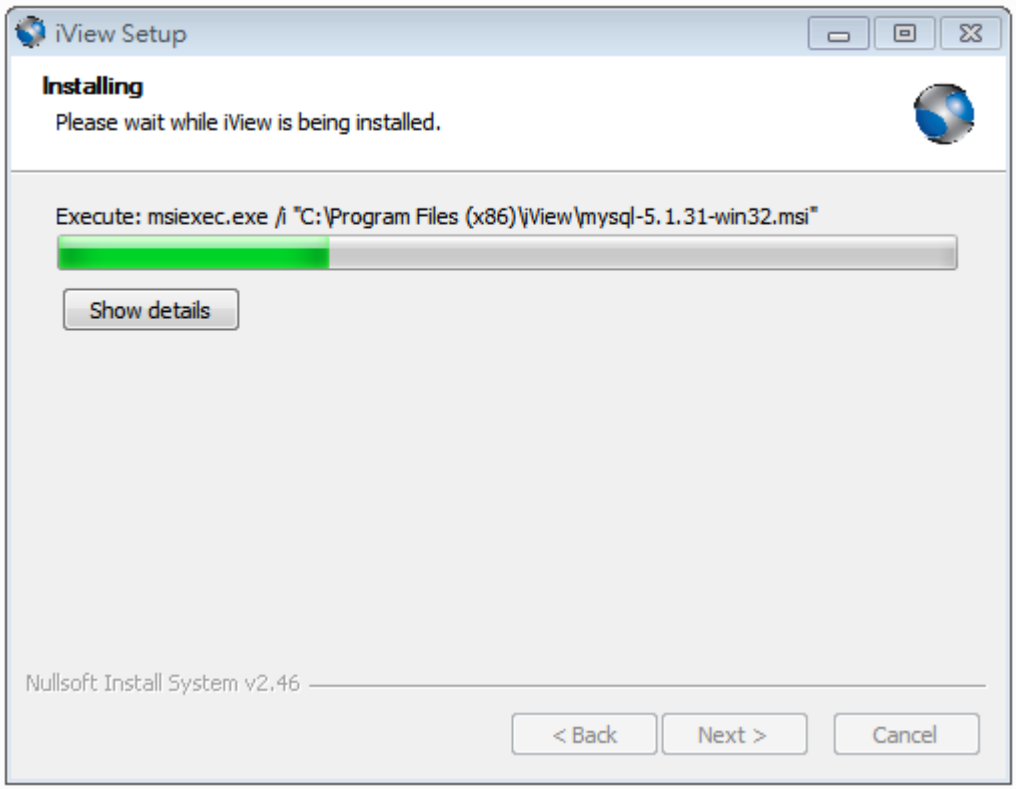
3) The iView^2 installation will install the MySQL Server, the Java Runtime Environment, the Apache Tomcat, the IMC Trap Service, and iView^2 Program Files. Press the "Next" button.



5) Choose Install Location. Choose the folder in which to install iView. Press the "Install" button.



6) The installation process will copy the necessary files to the system.

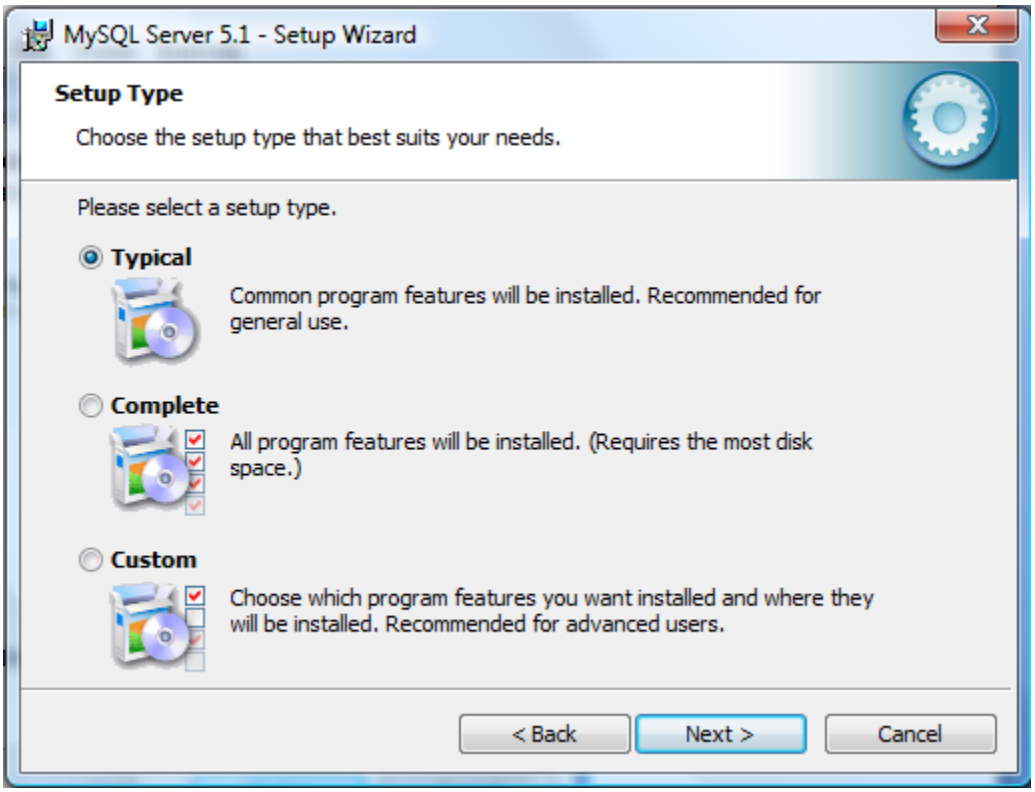


Step 2: Installing MySQL 5.1

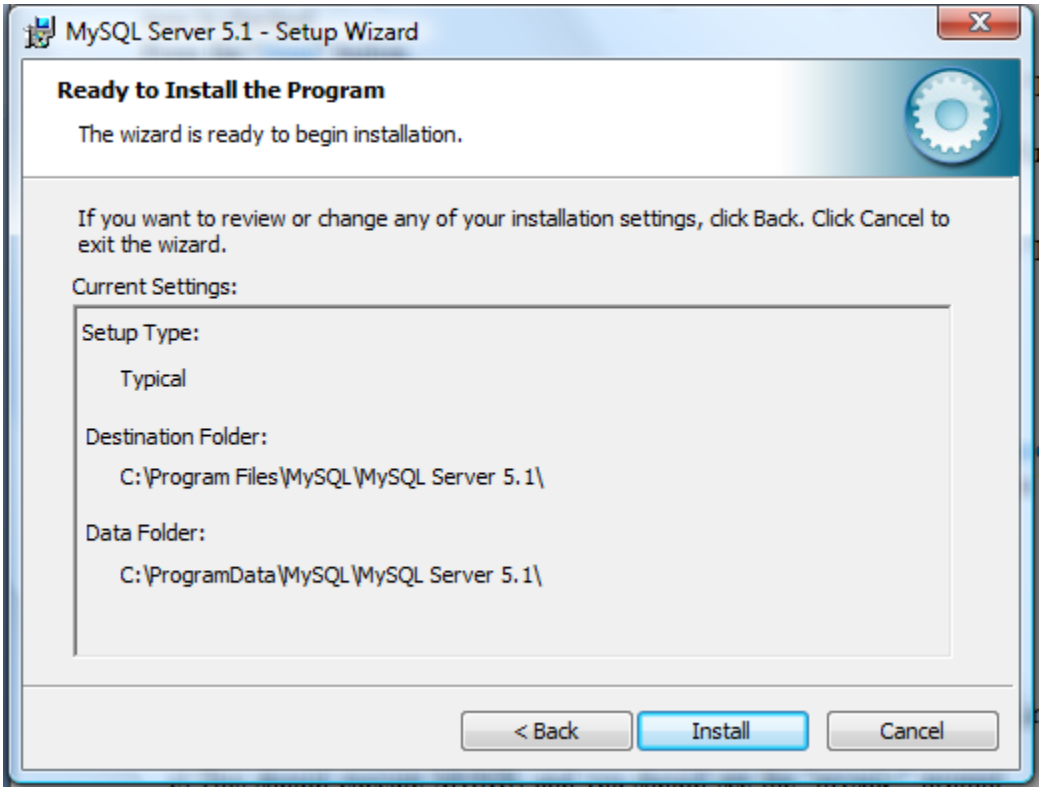
iView^2 uses a relational database management system for all data storage. MySQL 5.1 provides the database functionality required by iView^2 and is the standard during internal development and testing. The following installation instructions will guide a user through the required MySQL 5.1 installation.

1) At the initial dialog screen press the "Next" button.

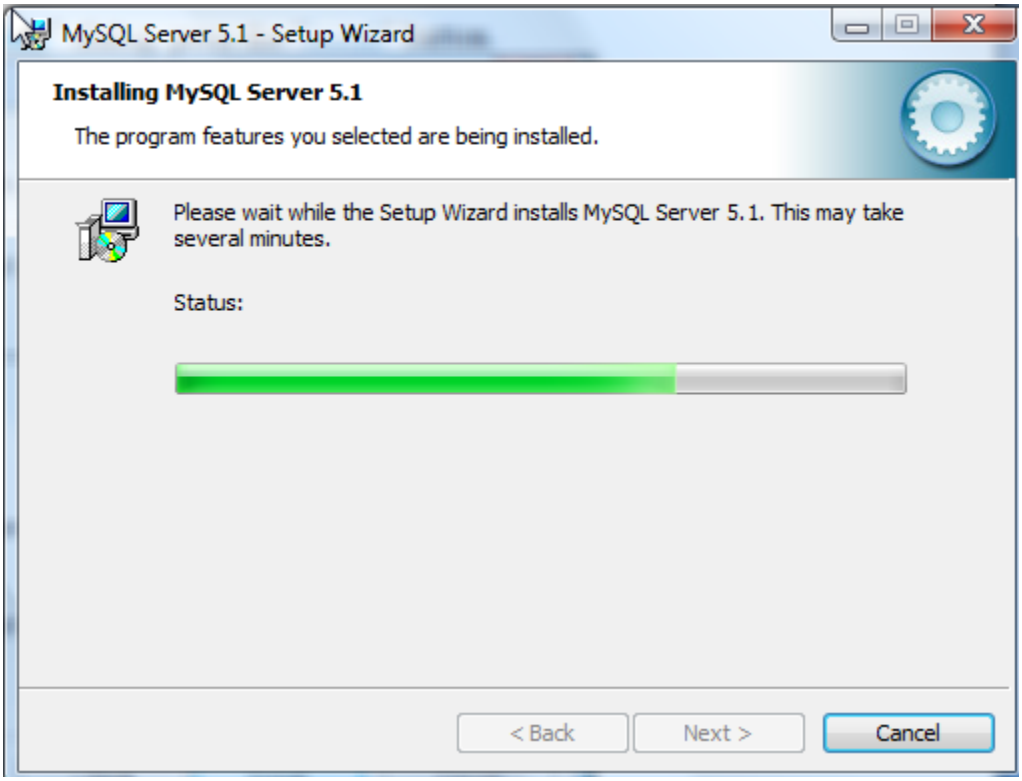
2) In the "Setup Type" dialog make sure "Typical" is selected, then press the "Next" button.



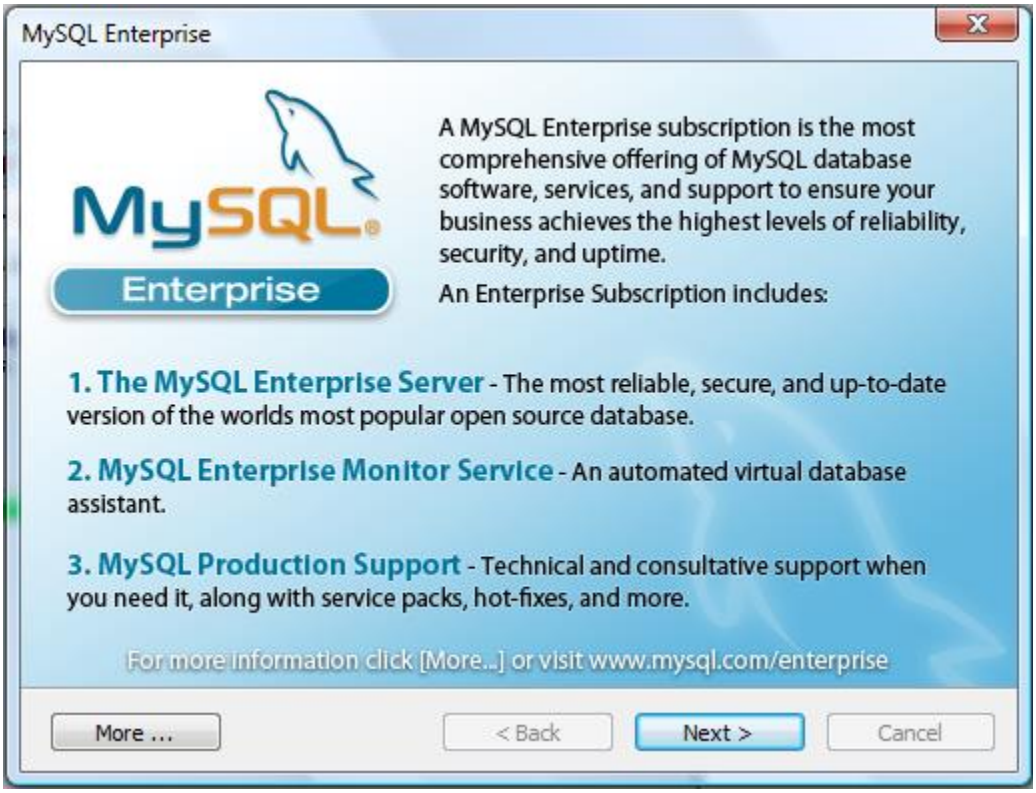
3) In the "Ready to Install the Program" dialog, press the "Install" button.



The "Installing MySQL Server 5.1" dialog will display during the file installation.

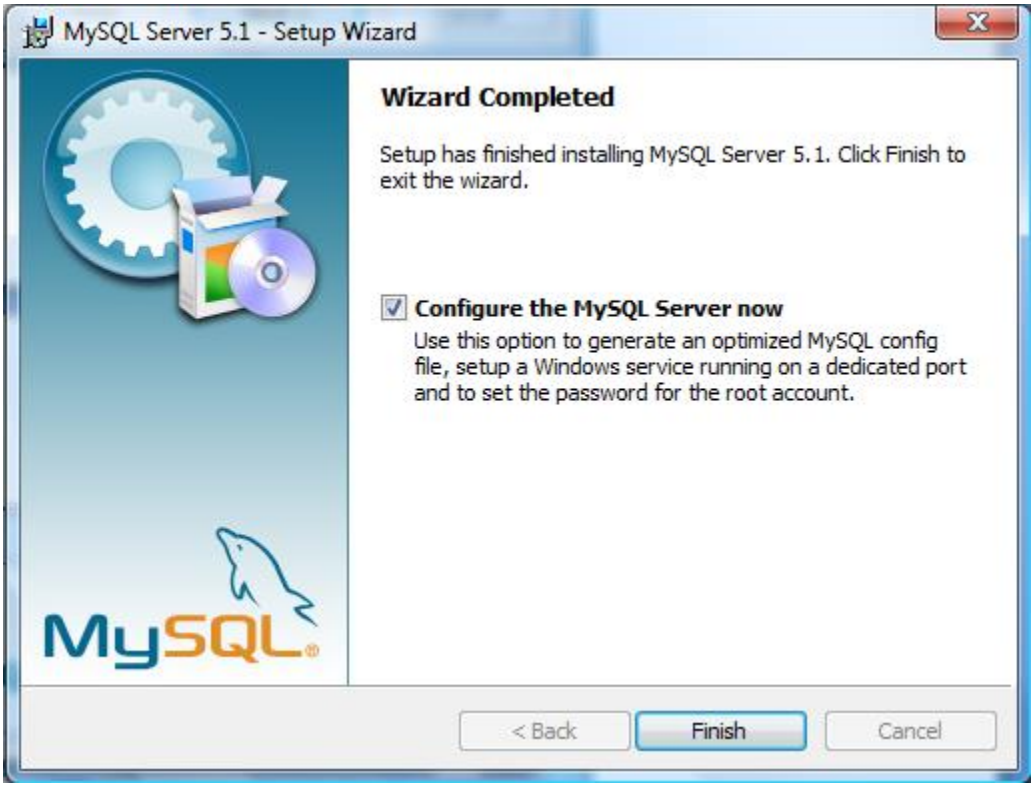


4) When the file installation is complete you will see the "MySQL Enterprise" dialog. This will take you through a series of dialogs describing the product. Press the "Next" button.

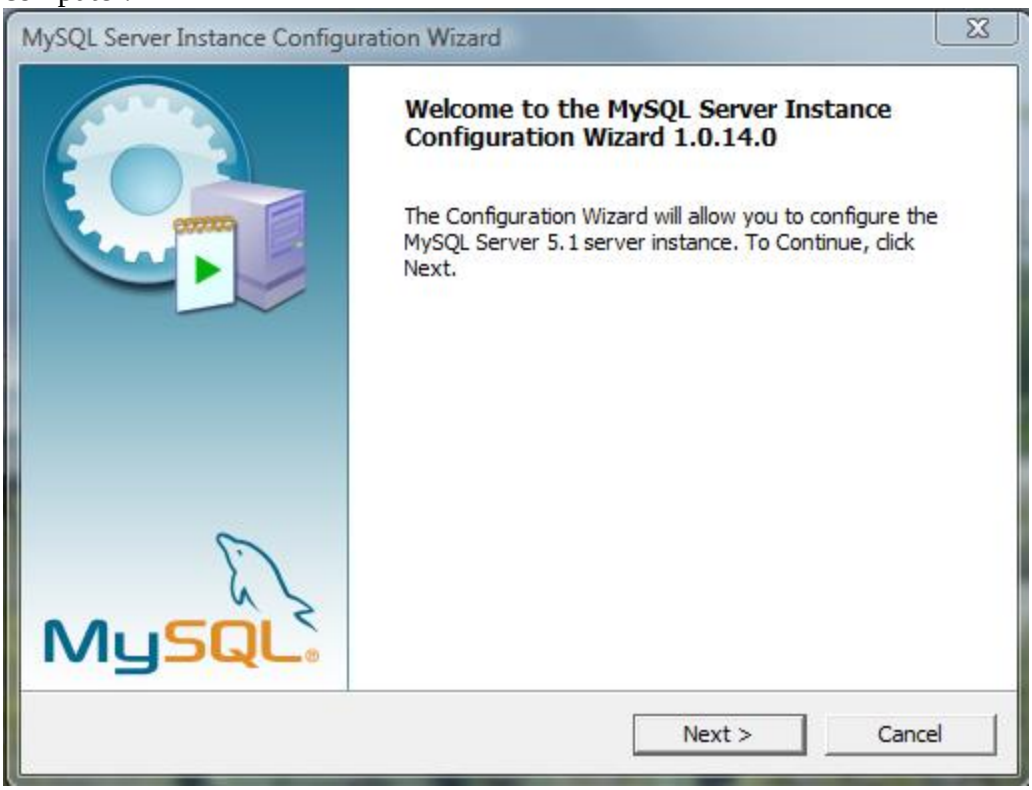


5) Press the "Next" button.

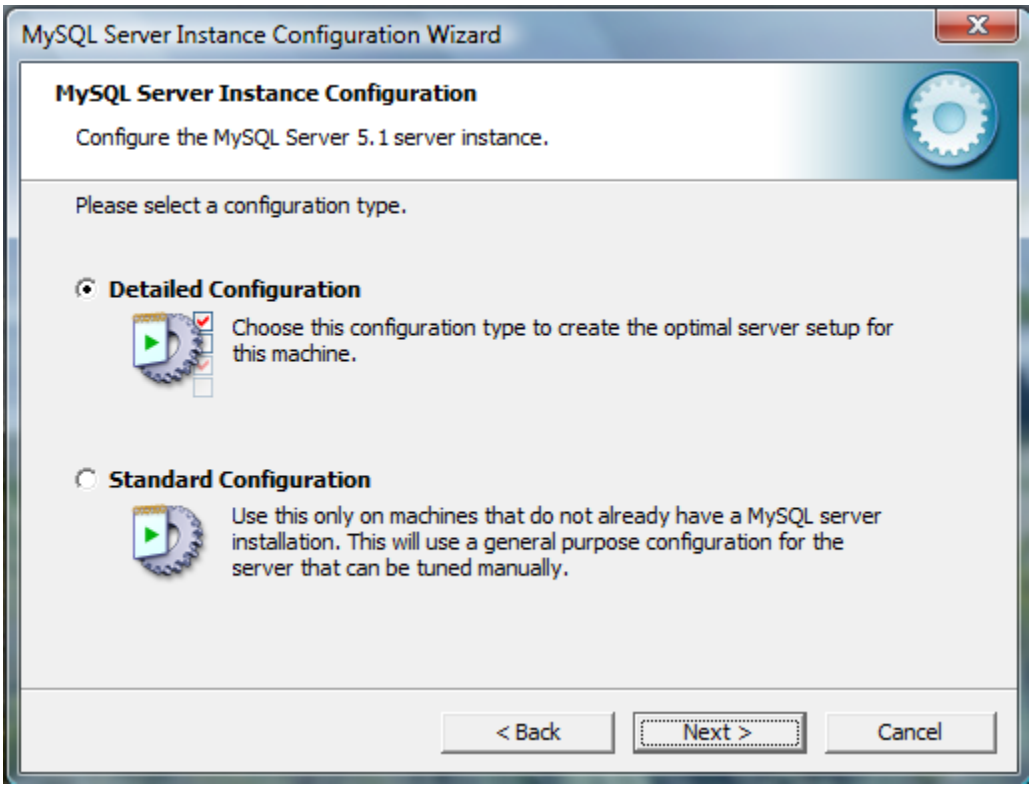
6) In the "Wizard Completed" dialog, make sure the "Configure the MySQL Server now" item is selected. Press the "Finish" button.



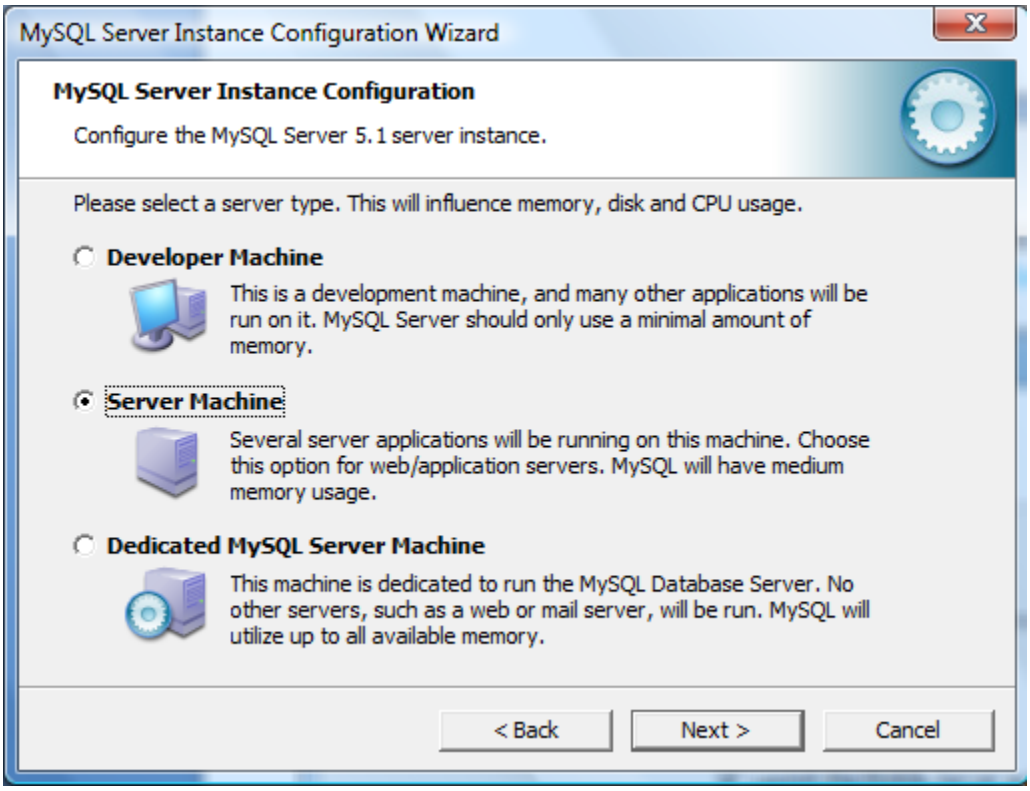
7) After pressing the "Finish" button you will see the "MySQL Server Instance Configuration Wizard" dialog. Press the "Next" button to continue. Note: This dialog may take a few moments to appear depending on your computer.



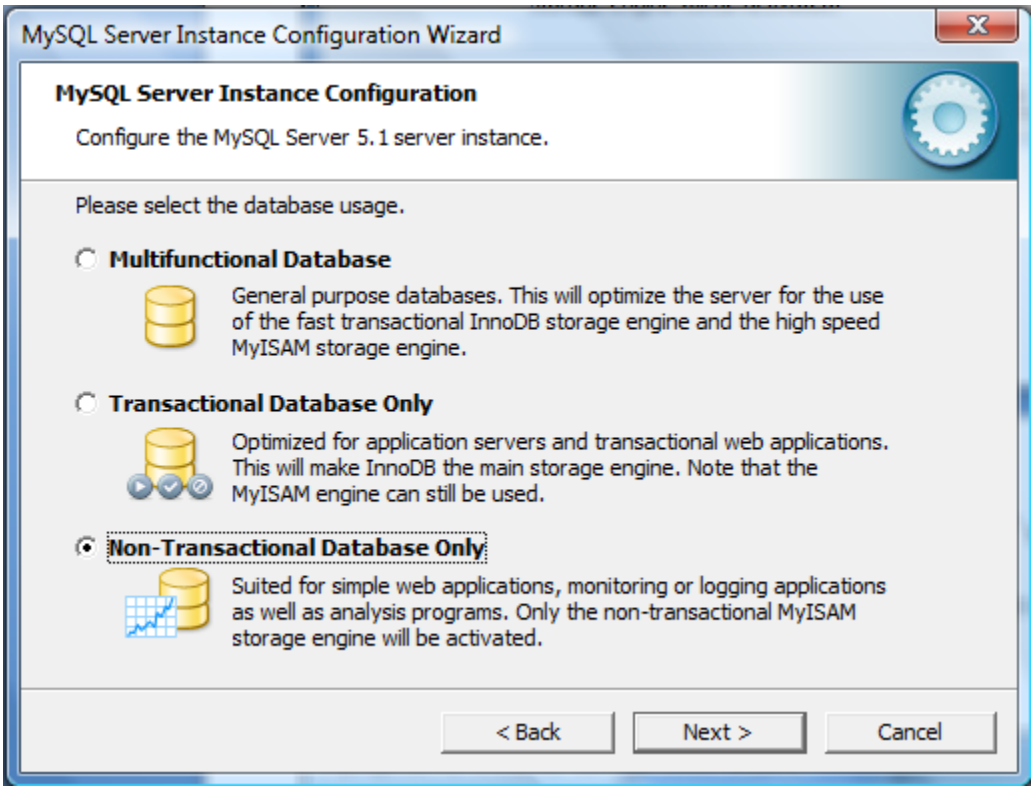
8) In the next "MySQL Server Instance Configuration Wizard" dialog make sure the "Detailed Configuration" item is checked. Press the "Next" button.



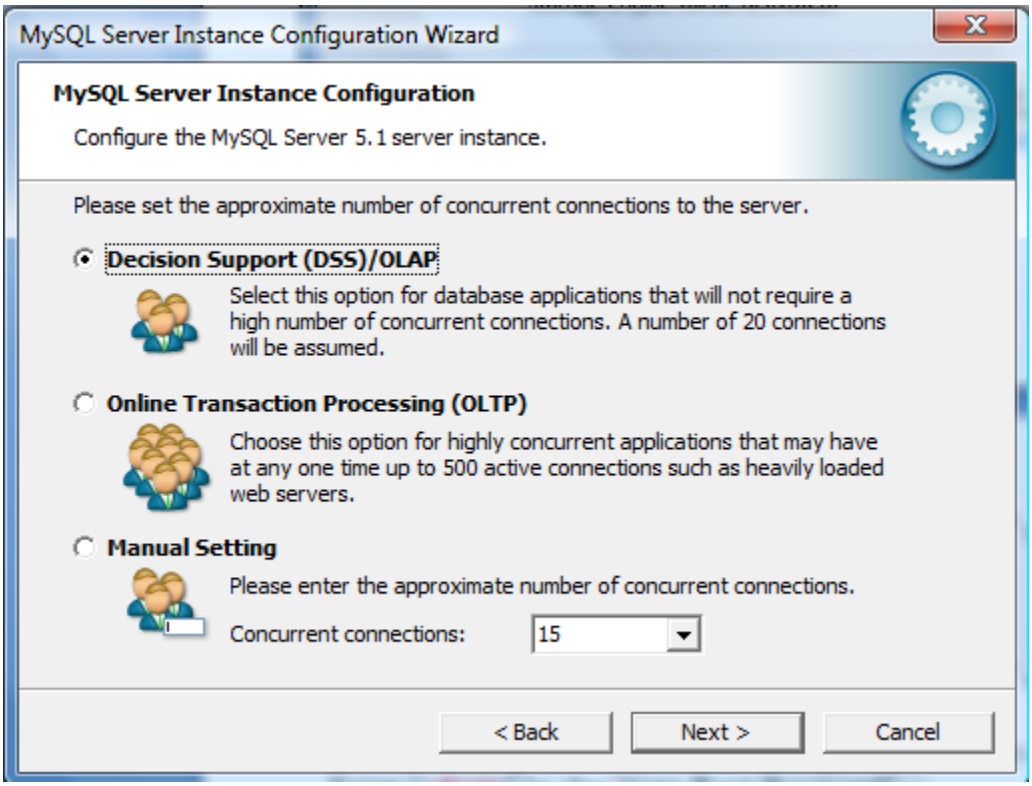
10) In the next "MySQL Server Instance Configuration Wizard" dialog make sure the "Server Machine" item is checked. Press the "Next" button.



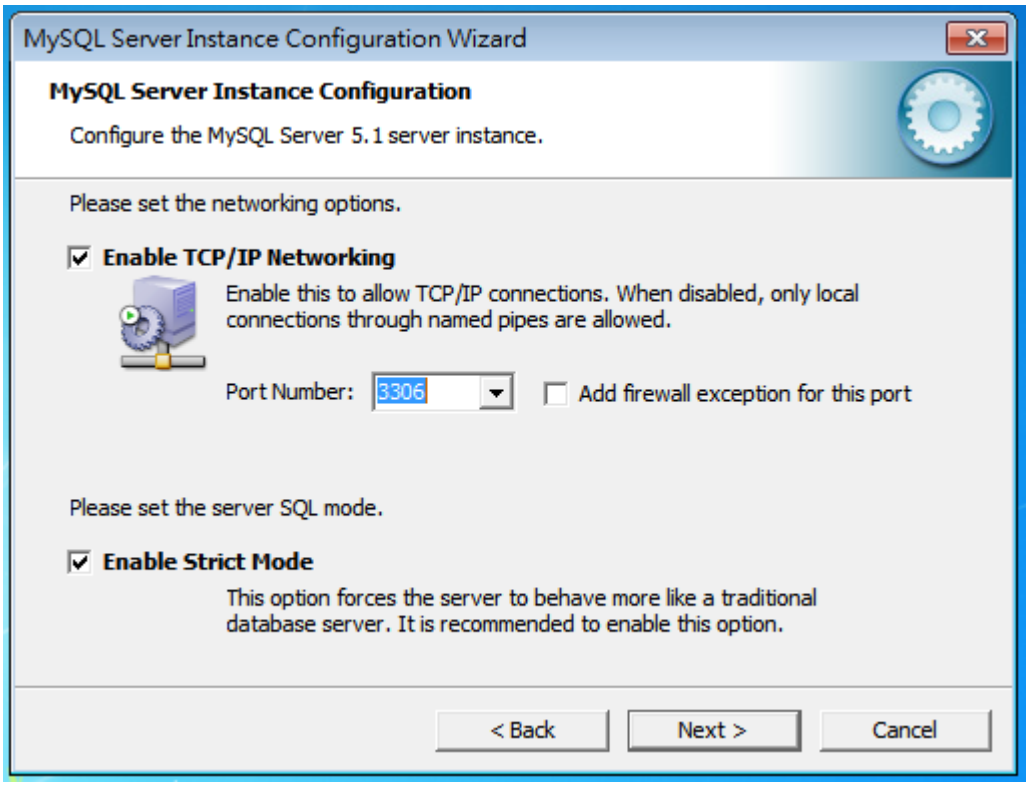
11) In the next "MySQL Server Instance Configuration Wizard" dialog make sure the "Non-Transactional Database Only" item is checked. Press the "Next" button.



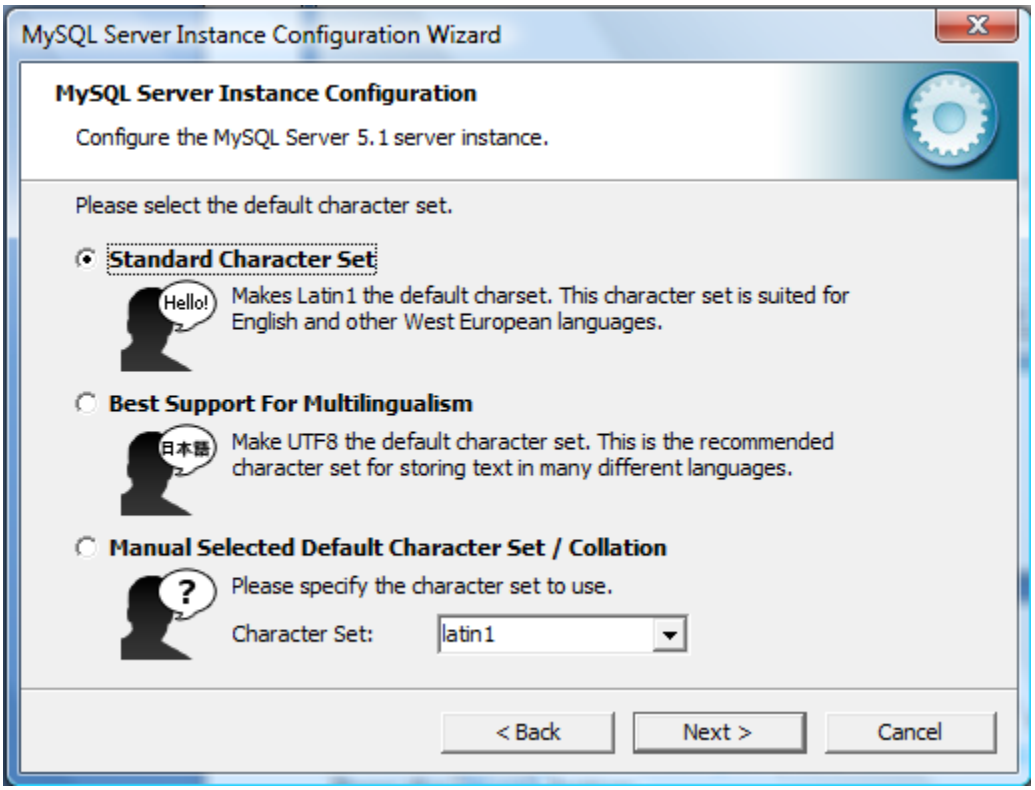
12) In the next "MySQL Server Instance Configuration Wizard" dialog make sure the "Decision Support (DSS)/OLAP" item is checked. Press the "Next" button.



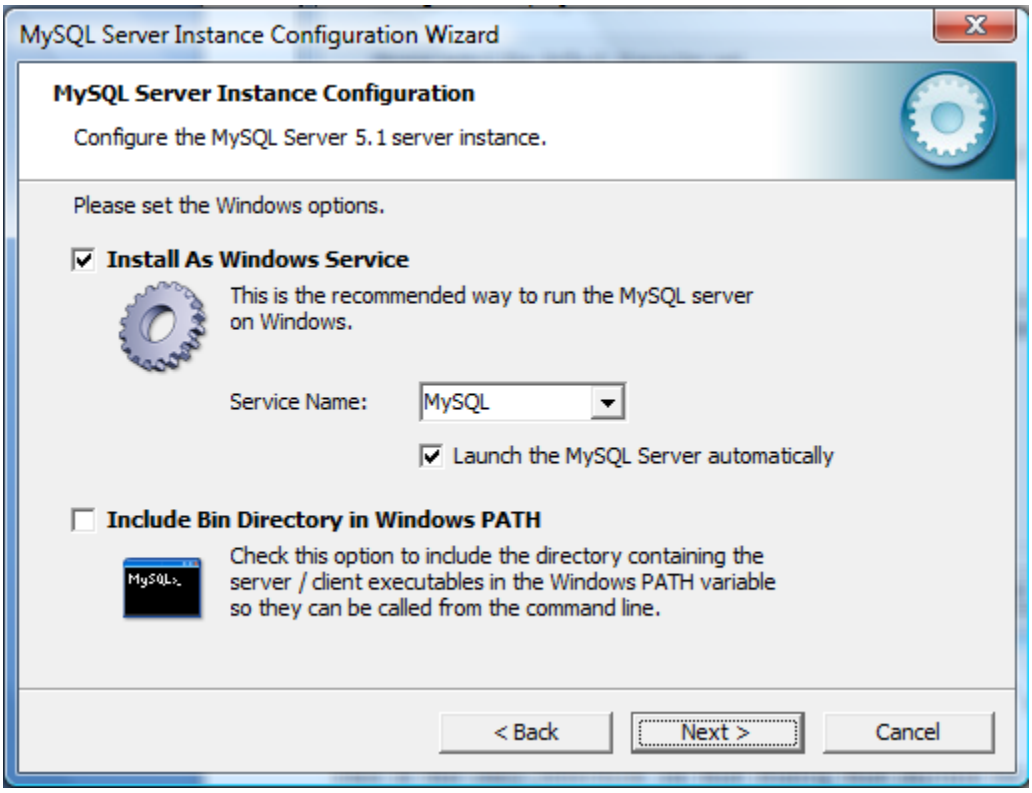
13) In the next "MySQL Server Instance Configuration Wizard" dialog make sure the "Enable TCP/IP Networking" and "Enable Strict Mode" items are checked. Press the "Next" button.



14) In the next "MySQL Server Instance Configuration Wizard" dialog make sure the "Standard Character Set" item is checked. Press the "Next" button.

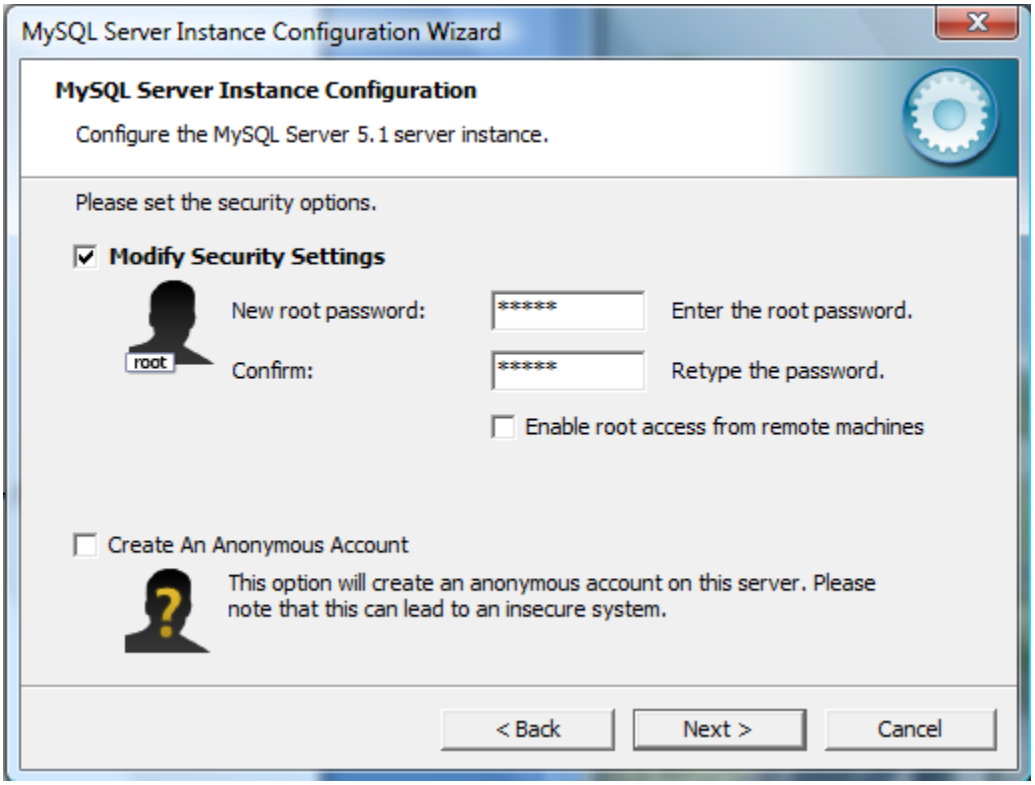


15) In the next "MySQL Server Instance Configuration Wizard" dialog make sure the "Install As Windows Service" and "Launch the MySQL Server automatically" items are checked. Press the "Next" button.

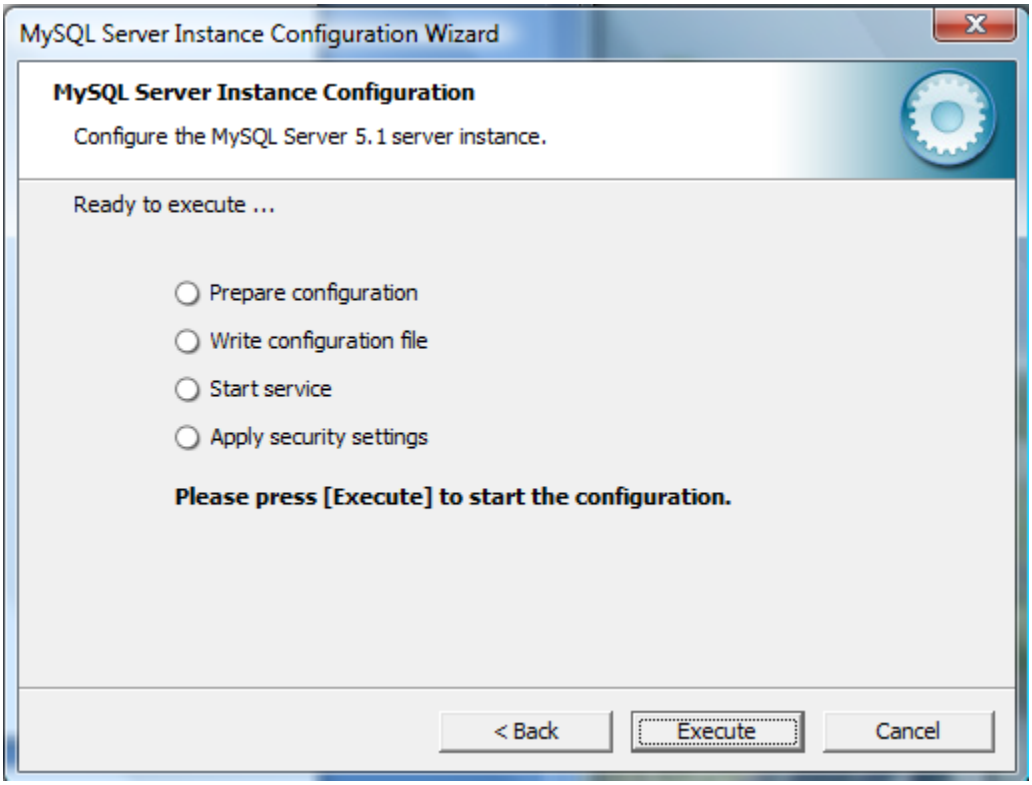


16) In the next "MySQL Server Instance Configuration Wizard" dialog make sure the "Modify Security Settings" item is checked.

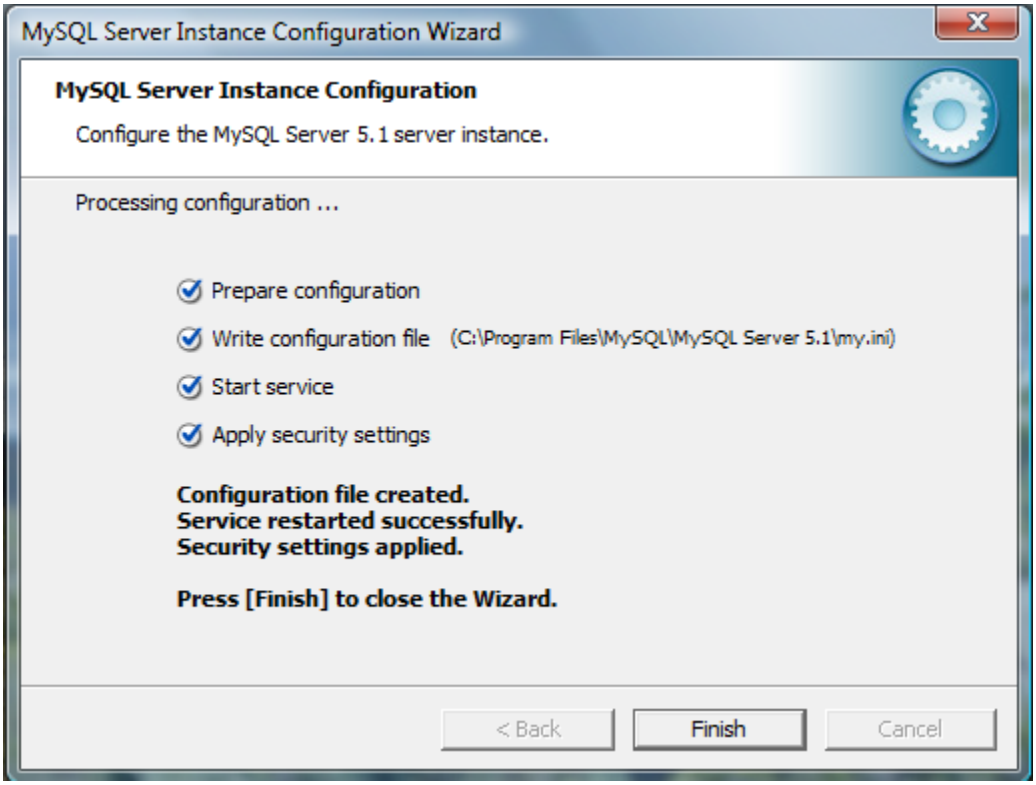
This is the only selection on that dialog that should be checked.
Enter "**admin**" as the "New Root Password".
Enter "**admin**" as the "Confirm" password.
Press the "Next" button.



17) In the next "MySQL Server Instance Configuration Wizard" dialog, press the "Execute" button.



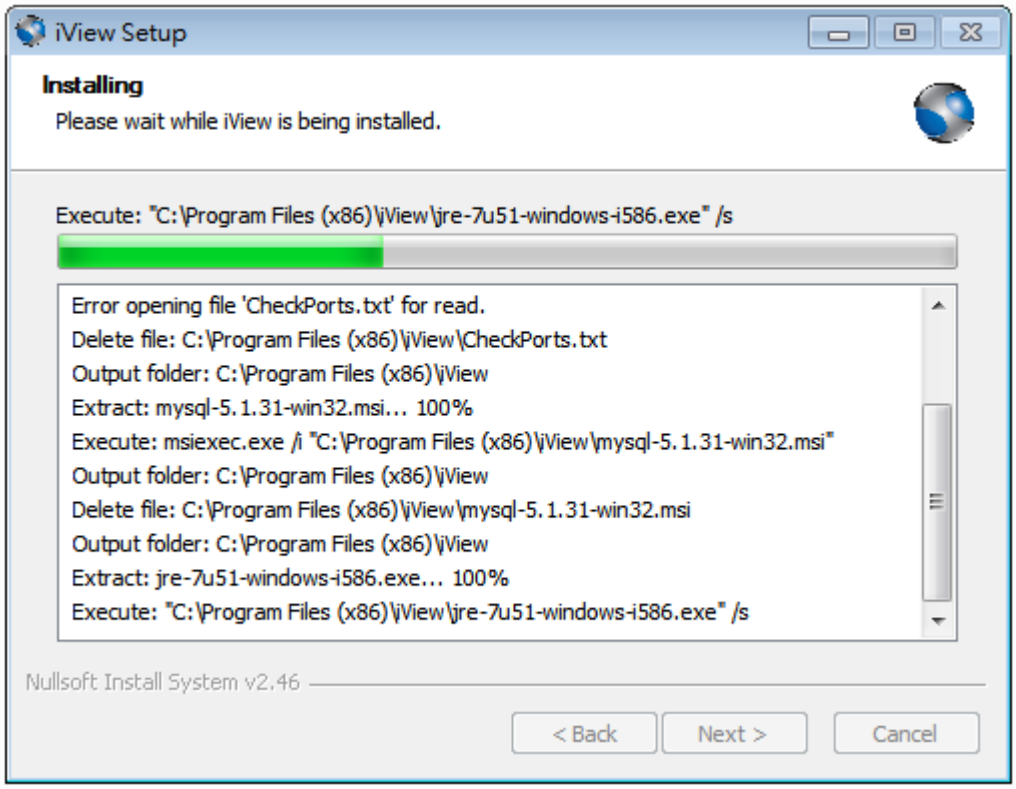
18) When the execute process is completed the following items should have a blue checkmark:
Prepare Configuration
Write Configuration File
Start Service
Apply Security Settings
Press the "Finish" button.



Step 3: Installing Java Runtime Environment 1.7

iView^2 is a Java-based application and a valid working installation of Java needs to be available. If the iView^2 installation process did not find a valid working installation of Java, the installation process will attempt to install Java v1.7u51 by default and proceed to "Step 3: Installing Java 1.7" otherwise it will skip to "Step 4: Installing Apache\Tomcat 6".

1) While the Java Runtime Environment 1.7u51 is installing the following screen will be displayed.



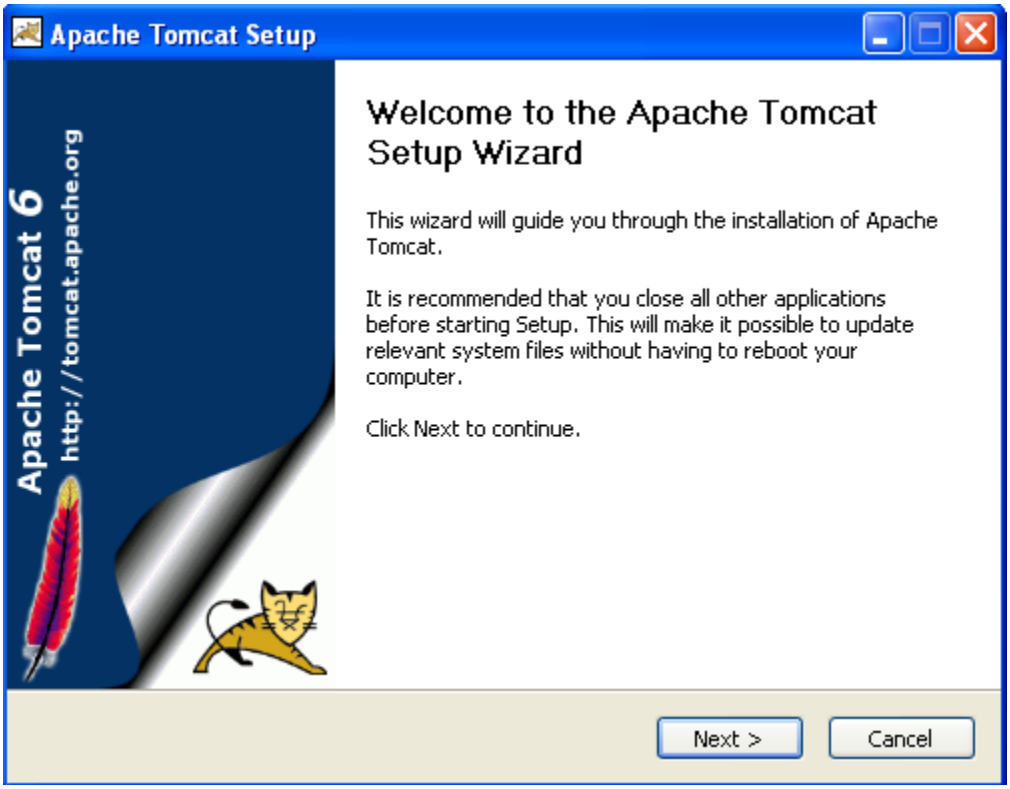
2) After the Java Runtime Environment installation is complete the iView installation process will perform verification of the installation.

3 When the Java Runtime Environment installation is complete the Apache Tomcat 6 installation dialog box will display.

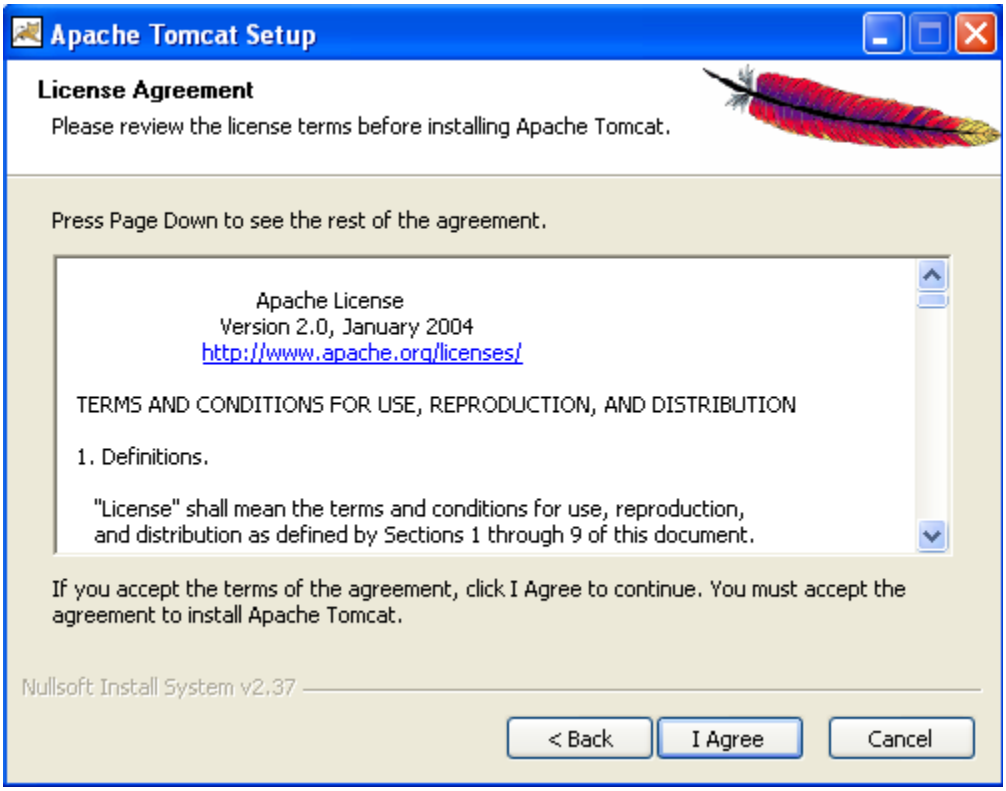
Step 4: Installing Apache\Tomcat 6

iView^2 is a Java-servlet based application. Apache/Tomcat 6 provides the servlet container required by iView^2 . The following installation instructions will guide a user through the required Apache/Tomcat 6 installation.

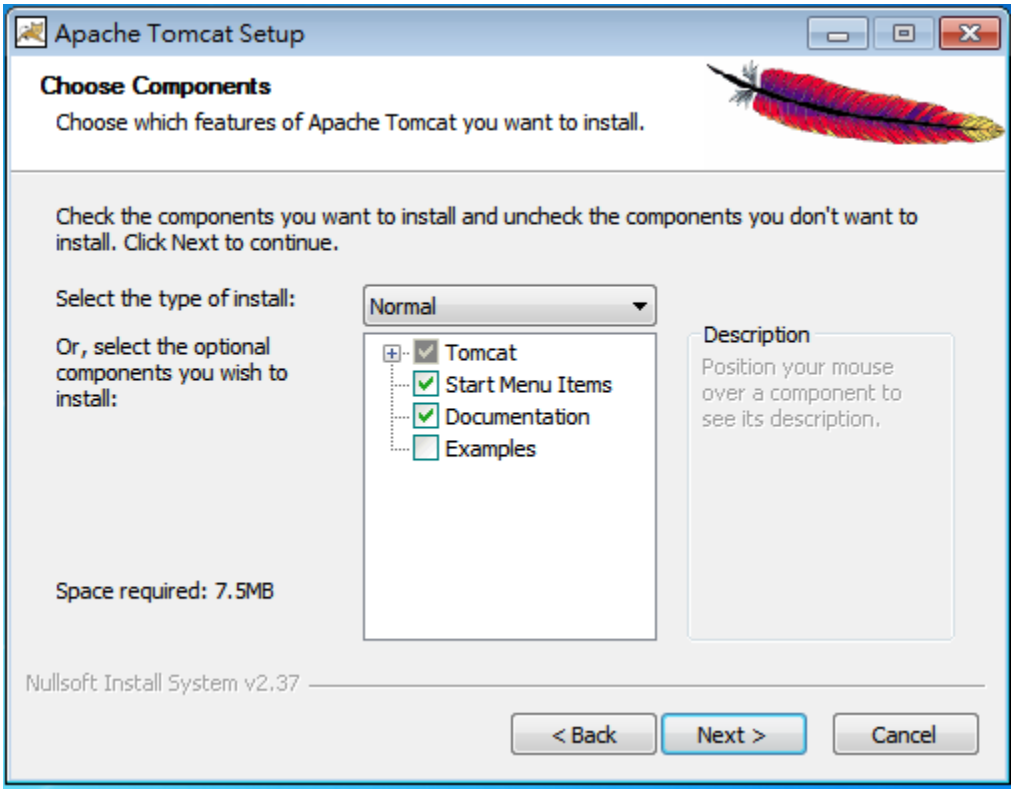
1) This will display the "Apache Tomcat Setup" dialog. Press "Next".



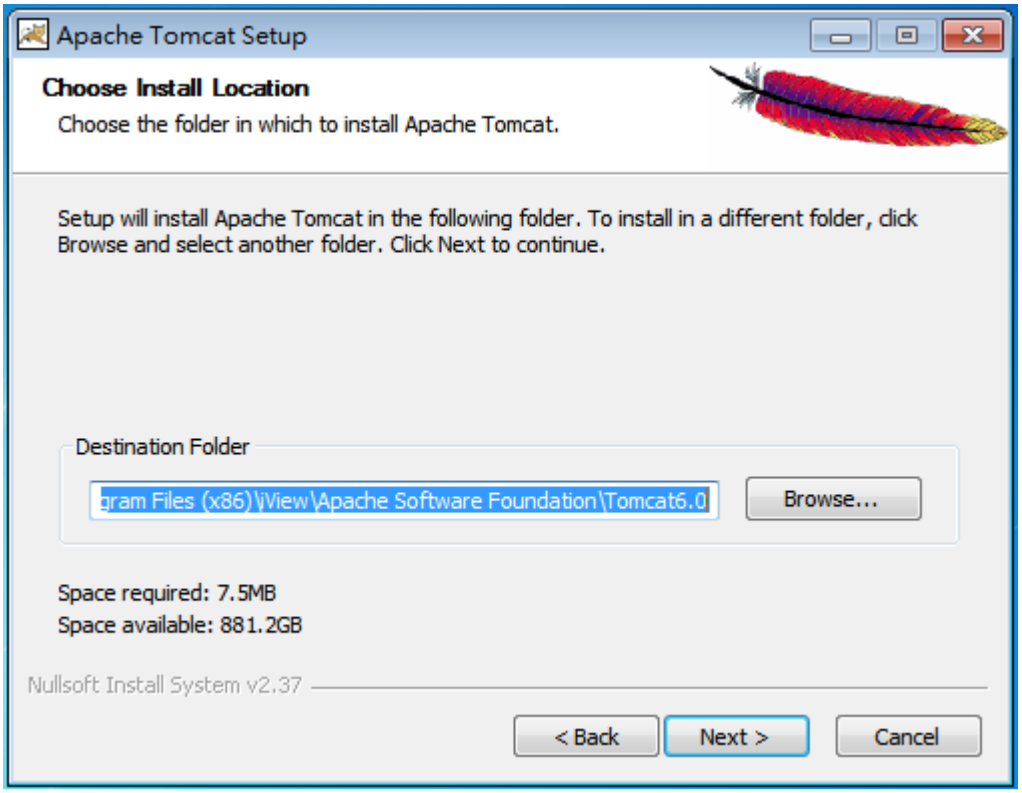
2) In the "Apache Tomcat Setup" "License Agreement" dialog. Press "I Agree".



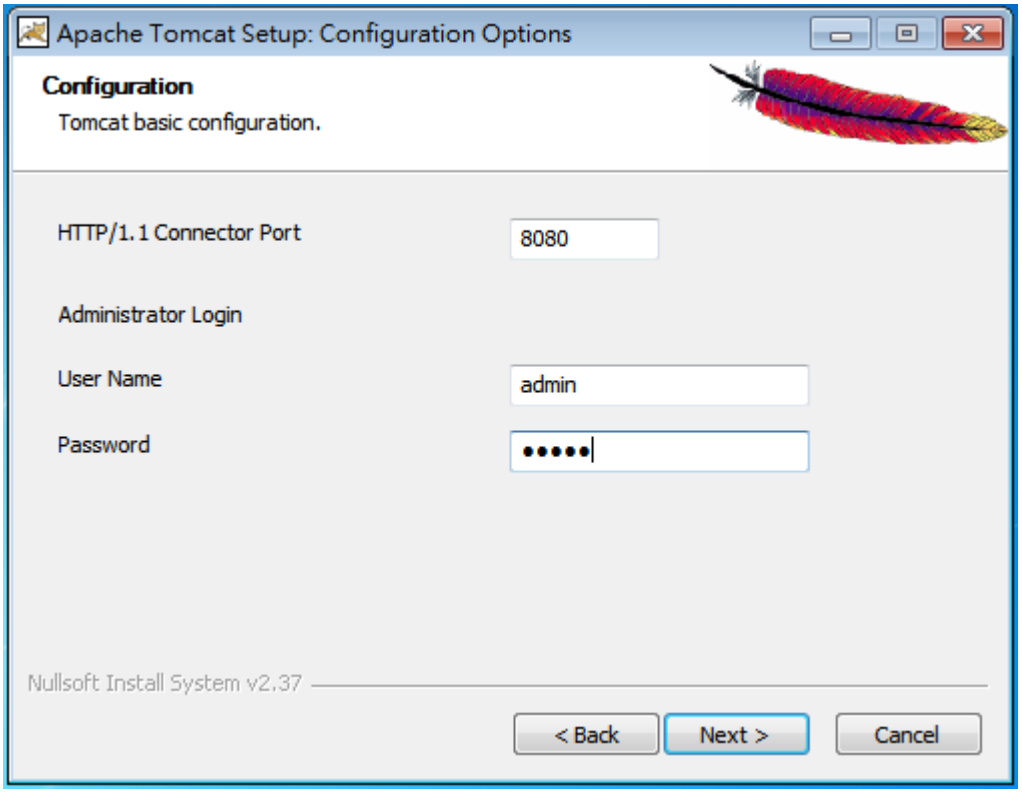
3) In the "Apache Tomcat Setup" "Choose Components" dialog. Press "Next".



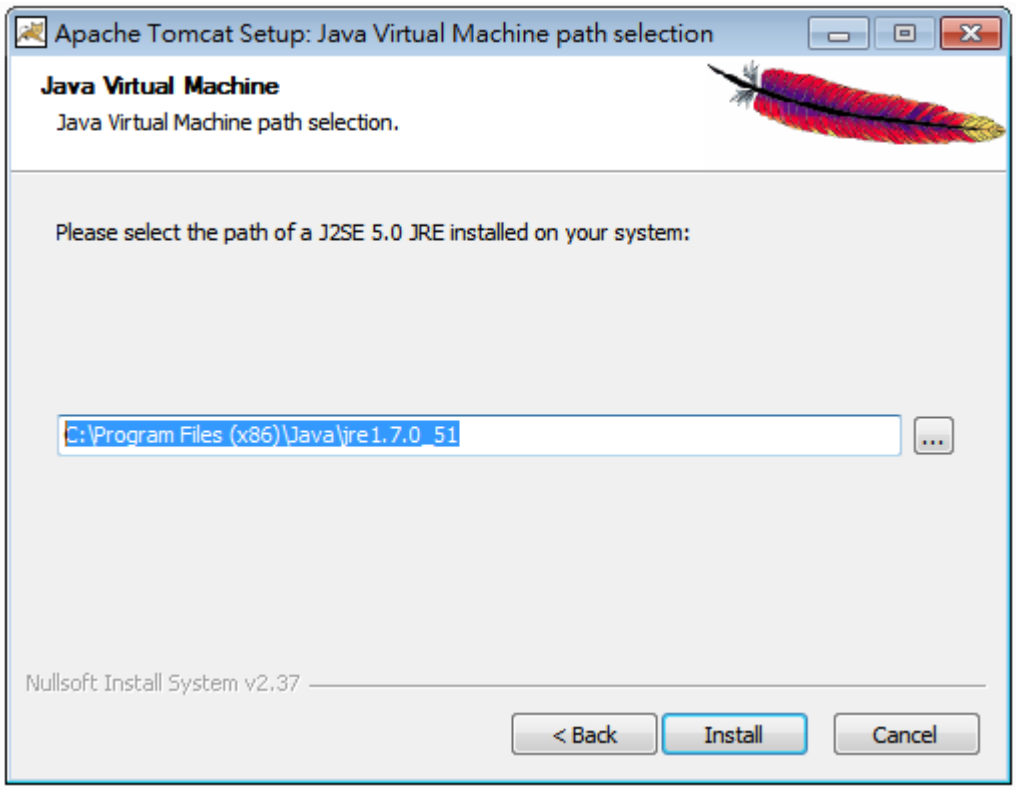
4) In the "Apache Tomcat Setup" "Choose Install Location" dialog. Press "Next".



5) In the "Configuration" dialog set "Password" to "**admin**". Press "Next".

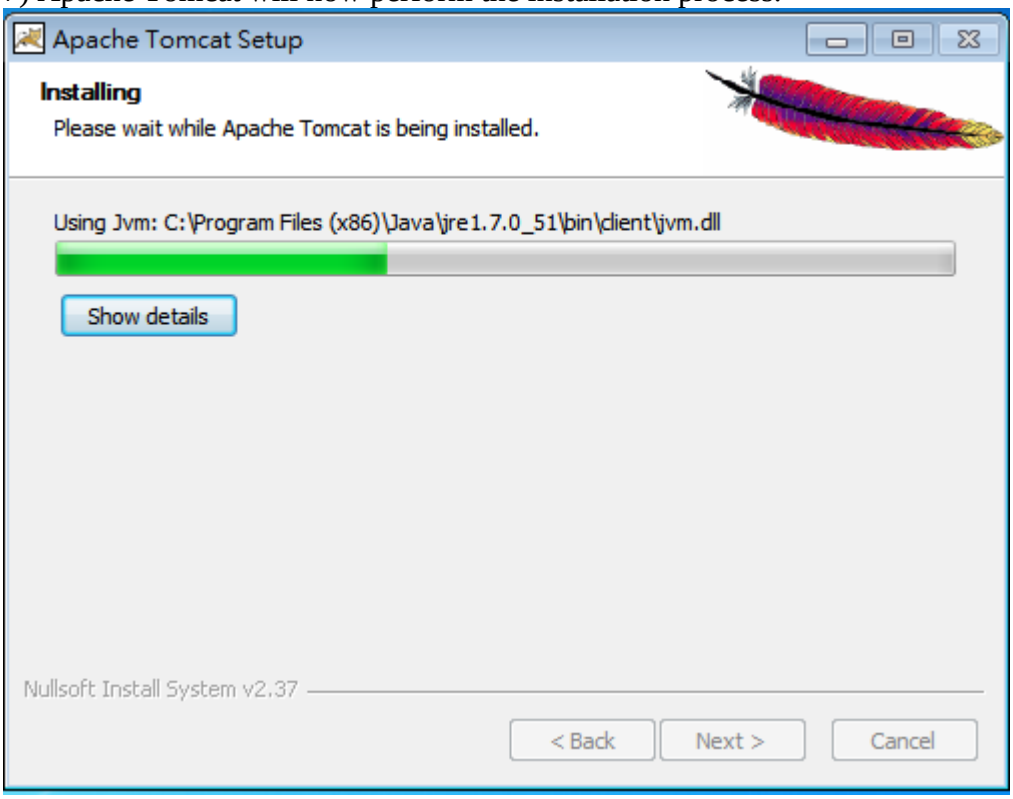


6) In the "Apache Tomcat Setup: Java Virtual Machine path selection" dialog. Press "Next".

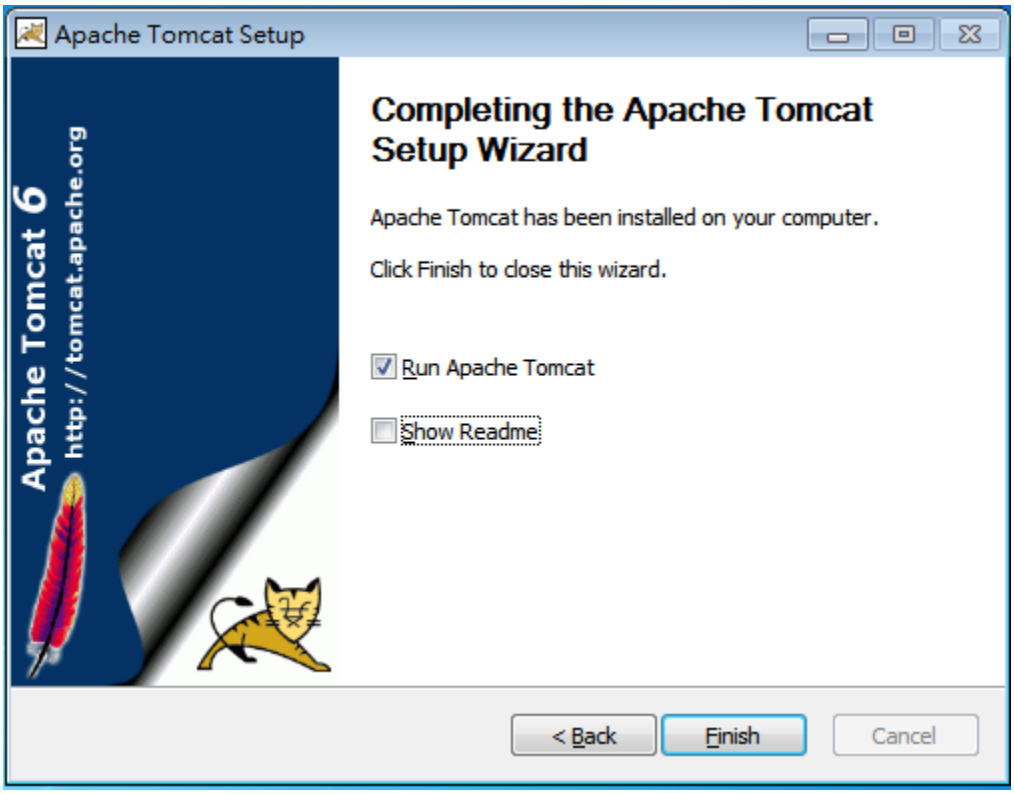


NOTE: If you are using a different version of java 1.5 or java 1.6 your path selection information may be different than what is displayed in this example.

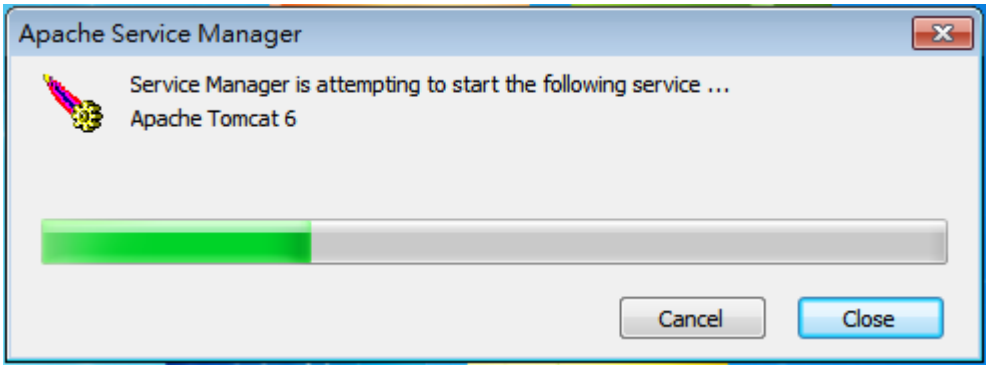
7) Apache Tomcat will now perform the installation process.



8) When the Apache Tomcat installation is complete the following dialog box will be displayed. Unselect the "Show Readme" selection. Press "Finish".



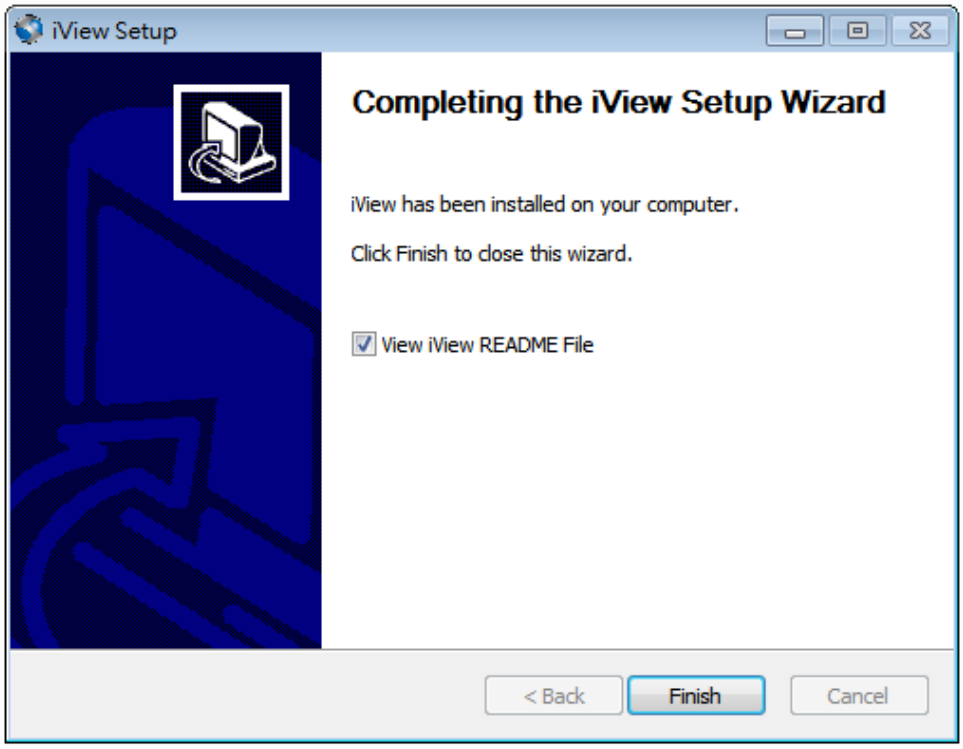
9) The Apache Tomcat 6 application is installed as a Microsoft Windows service and will display the following dialog at the end of the installation process.

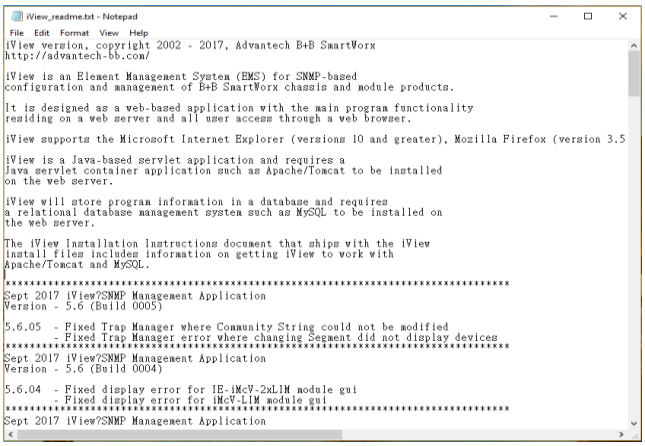


Step 5: Installation Finish

1) After Java, Apache/Tomcat, and MySQL have been installed, the iView^2 install process will check the DNS cache setting in the Java Runtime Environment. By default the Java Virtual Machine (JVM) DNS cache is set to cache a successful DNS lookup forever. This could be a problem for installations that manage devices via DNS and have to change the IP Addresses associated with DNS periodically. The default JVM DNS cache is set to forever to guard against DNS spoofing attacks. The iView^2 installer will to change the default JVM DNS cache from cache forever, to cache never. The JRE java.security file will be modified as follows: "#networkaddress.cache.ttl=-1" will be changed to "networkaddress.cache.ttl=0"

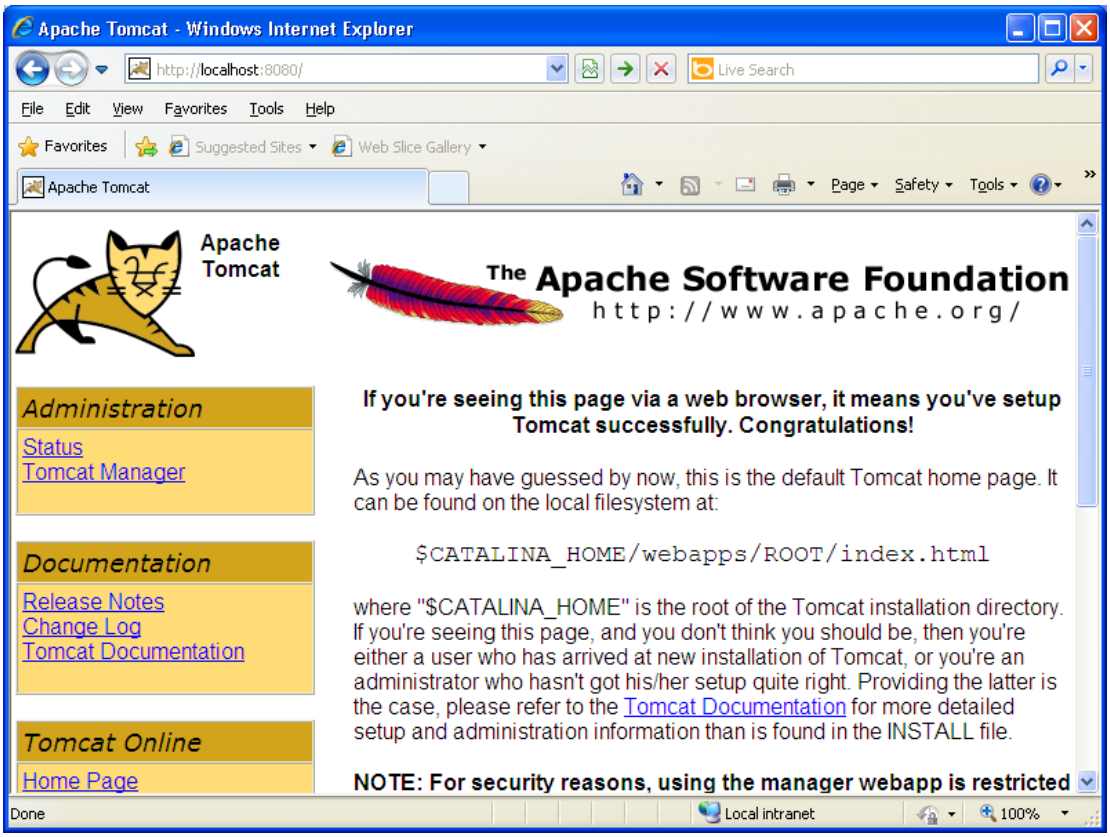
2) After the install process is done copying the necessary files you will have an opportunity to review the README file. When done with the README file the setup complete screen will display. Please make your selection and press "Finish".





Step 6: Installation Verification

1) Verify the Apache\Tomcat installation:
   a) Open Internet Explorer or other supported browser
   b) Enter "**http://localhost:8080/**" as the URL
   c) You should see the "Apache Tomcat" home page



2) Verify the iView installation:

Double-Click the iView Shortcut icon

or

a) Open Internet Explorer, Chrome, or other supported browser
b) Enter "**http://localhost:8080/iView3**" as the URL and press the "Enter" key.

You should see the "iView"login page.

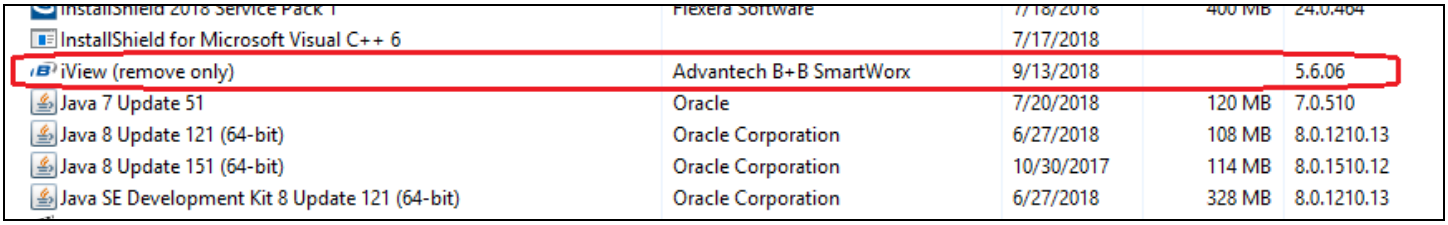
NOTE: The first time the "iView" home page is viewed it may take a few moments to display the login dialog because the database is being configured.

3) Enter "admin" for the "User Name", enter "password" for the "Password" and press the "Log In" button. You should see the "iView" home page as shown below.

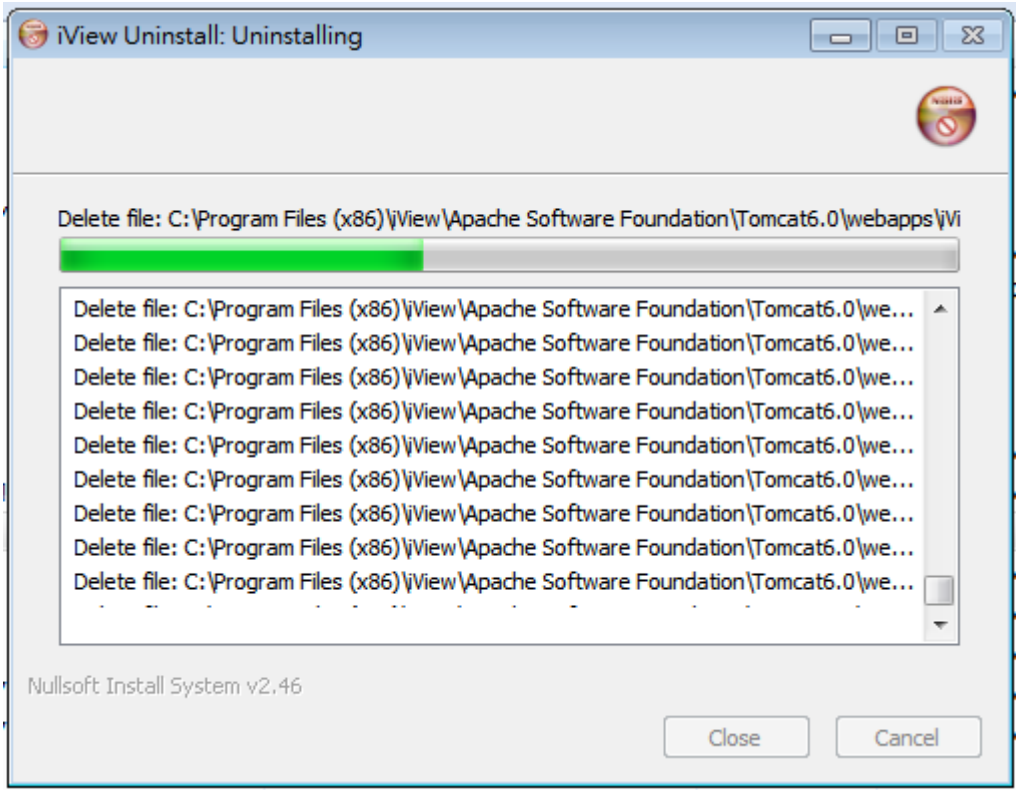
4) Select the "Logout" link in the upper right corner to exit iView.

Congratulations, the installation is complete to continue see the "iView_Getting_Started.doc" guide for an overview of the iView application features.

NOTE: If want to uninstall the iView, go to the Control Panel > Programs > Uninstall a program, and select "iView (remove only)" to uninstall it.



InstallShield 2018 Service Pack 1	Flexera Software	7/18/2018	400 MB	24.0.464
InstallShield for Microsoft Visual C++ 6		7/17/2018		
iView (remove only)	Advantech B+B SmartWorx	9/13/2018		5.6.06
Java 7 Update 51	Oracle	7/20/2018	120 MB	7.0.510
Java 8 Update 121 (64-bit)	Oracle Corporation	6/27/2018	108 MB	8.0.1210.13
Java 8 Update 151 (64-bit)	Oracle Corporation	10/30/2017	114 MB	8.0.1510.12
Java SE Development Kit 8 Update 121 (64-bit)	Oracle Corporation	6/27/2018	328 MB	8.0.1210.13


iView Uninstall: Uninstalling
Delete file: C:\Program Files (x86)\iView\Apache Software Foundation\Tomcat6.0\webapps\iVi
Delete file: C:\Program Files (x86)\iView\Apache Software Foundation\Tomcat6.0\we...
Delete file: C:\Program Files (x86)\iView\Apache Software Foundation\Tomcat6.0\we...
Delete file: C:\Program Files (x86)\iView\Apache Software Foundation\Tomcat6.0\we...
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