

# Installing OpenClinica 2.0.1 on Windows

Note: Many windows systems are not configured to show the file extensions by default. In order to use this guide, you will need to be able to see the file extensions. To configure this behavior, open a Windows Explorer window. Click Tools > Folder Options. Go to the View tab, and in Advanced settings uncheck the 'Hide extensions for known file types'.

This installation was performed successfully on Windows Server 2003 Standard Edition SP1.  
This installation was performed successfully on Windows XP Professional Version 2002 SP2.  
The system should work on Windows 2000 Professional and compatible systems, but has not been tested on other Windows platforms.

NOTE: This software distribution will also work for Linux based systems; however Akaza provides a separate Linux distribution in tarball format, available at <http://www.openclinica.org>

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\*Please note; all links to a sub-chapter will bring you to a screen shot where appropriate.

# 1. About OpenClinica

## Professional Open Source Solutions for the Clinical Research Enterprise

OpenClinica is a software platform for protocol configuration, design of Case Report Forms (CRFs), and electronic data capture, retrieval, and management. It is extensible, modular, standards-based, and open source.

More about OpenClinica: <http://www.OpenClinica.org>

## Software License

OpenClinica is distributed under the GNU Lesser General Public License (GNU LGPL). For details, please see: <http://www.openclinica.org/license> or the LICENSE.txt file in this distribution.

## Developer and Contact Information

Akaza Research, based in Cambridge, MA, provides open informatics solutions that address the needs of academic and non-profit institutions engaged in clinical, healthcare and biomedical research.

Akaza utilizes internally -and community- developed open source software and open standards to provide professional services for the clinical research enterprise. These open solutions enable Akaza's customers to effectively address the challenges of data management, compliance, and interoperability in the modern clinical and healthcare research environment.

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For more about Akaza's products and initiatives see:

<http://www.akazaresearch.com>

<http://www.OpenClinica.org>

## 2. Software Dependencies

OpenClinica runs on top of any Servlet/JSP container that implements the Servlet 2.4 and JavaServer Pages 2.0 specifications from the Java Community Process. It was developed to run on Apache Jakarta Tomcat 5.5.20.

Currently, OpenClinica also runs on top of the Postgres relational database, but can be modified to work on top of an Oracle relational database. Using a JDBC (Java Database Connectivity) driver, the database connects to the web application and provides the data to the end-user.

*Required:*

Jakarta Tomcat 5.5.20

Java 2 Standard Edition Development Kit 5.0 Update 10

Postgres 8.1.6

Postgres JDBC Driver Version 8.1-405 JDBC 3

This installation guide will show you how to acquire and setup each of the required components and configure the OpenClinica web application.

*Note: The software stack OpenClinica runs on is open source, and most open source projects release minor versions and revisions often. Sometimes only a matter of weeks may separate the release of two adjacent versions of the software.*

*For this release, the latest stable version of each component was used in integrated testing, and its revision number is referenced in this document. In some cases, the revision number mentioned may no longer be available. For the most part, you should be able to use later minor versions and revisions of the same software without incident. For instance, if the install guide uses PostgreSQL 8.1.6, PostgreSQL 8.1.8 should work as well.*

*We recommend that you record the revision number you use. If you have concerns about a particular combination, please post your question to the [users@openclinica.org](mailto:users@openclinica.org) mailing list.*

### 3. Install Java

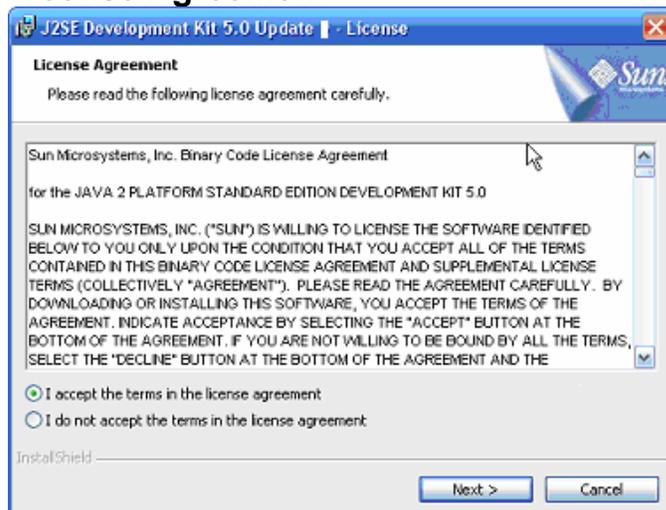
OpenClinica 2.0.1 is designed to run on a Java 2 SDK 1.5x platform. To avoid conflicts with other versions of Java, you should clear out any other Java installations on the system.

- ◆ Go to Start>Control Panel>Add Remove Programs, and remove all Java JRE and SDKs.
- ◆ Download J2SE Development Kit 5.0 Update 10
- ◆ Setup the Java 2 SDK

<b>Windows offline installation (EXE)</b>
<b>Filename:</b> jdk-1_5_0_10-windows-i586-p.exe
<b>Size:</b> 50.62 MB
<b>Website:</b> <a href="http://java.sun.com/products/archive/j2se/5.0_10/index.html">http://java.sun.com/products/archive/j2se/5.0_10/index.html</a>

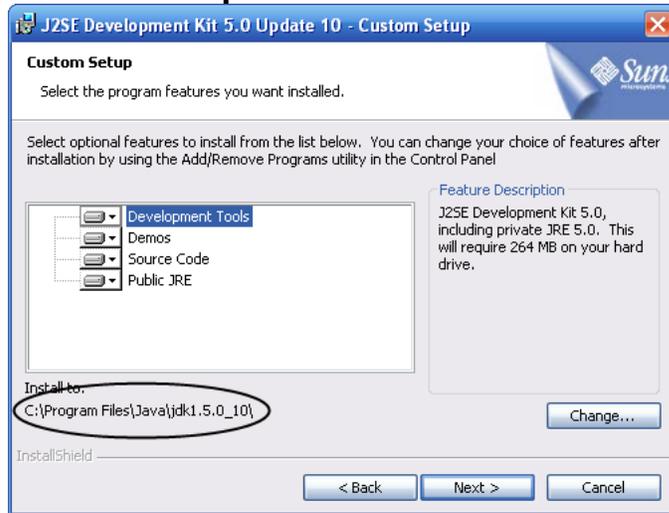
- ◆ Run jdk-1\_5\_0\_10-windows-i586-p.exe

#### License Agreement



- ◆ Accept the terms of the licensing agreement.
- ◆ Click Next >

## Custom Setup



- ◆ Click Change...
- ◆ **Install to the folder c:\jdk1.5.0\_10\**
- ◆ Click Next >
- ◆ Setup will begin transferring files.

*Note: If the J2SE Runtime Environment w/European Languages installation wizard pops up, hit Cancel and then hit Yes.*

## Installation Completed

- ◆ Click Finish
- ◆ You may see a window asking you to restart your computer, click yes and restart your machine.

## Create JAVA\_HOME Environment Variable

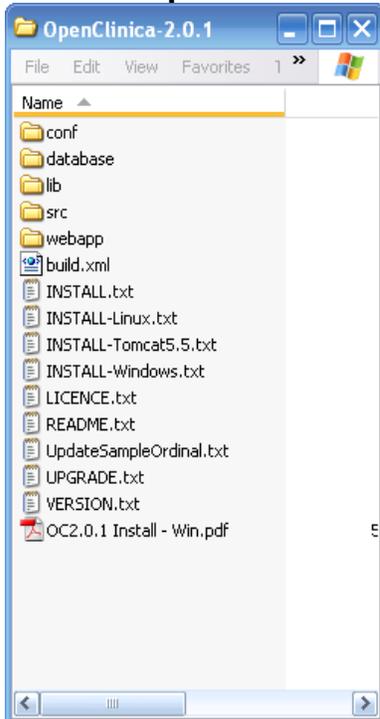
- ◆ Right click on My Computer, and select Properties
- ◆ Select the Advanced tab
- ◆ Click the Environment Variables button.
- ◆ In the System Variables group, click the New button
- ◆ Create a JAVA\_HOME variable that has the path to the jdk (should be JAVA\_HOME=c:\jdk1.5.0\_10).
- ◆ Click OK
- ◆ Click OK
- ◆ Click OK

## 4. Install OpenClinica Package

To install OpenClinica, you must first acquire the package and install it on the server.

<b>Download OpenClinica 2.0.1 (Windows package)</b>
<b>Filename:</b> OpenClinica-2.0.1.zip (ZIP)
<b>Website:</b> <a href="http://openclinica.org">http://openclinica.org</a> (you must register)

### Extract OpenClinica Package



- ◆ Extract the files
- ◆ Create an install folder c:\openclinica\
- ◆ Extract archive into c:\openclinica\, you should end up with a folder **c:\openclinica\OpenClinica-2.0.1\** which contains the distribution package.

*Note: Due to documentation changes prior to release, your distribution package may have different documentation files in this root directory.*

## 5. Install PostgreSQL

The default installation of OpenClinica uses a PostgreSQL database. PostgreSQL is an open source application and can be installed to the Window platform as follows.

- ◆ Download postgresql-8.1.6-1.zip

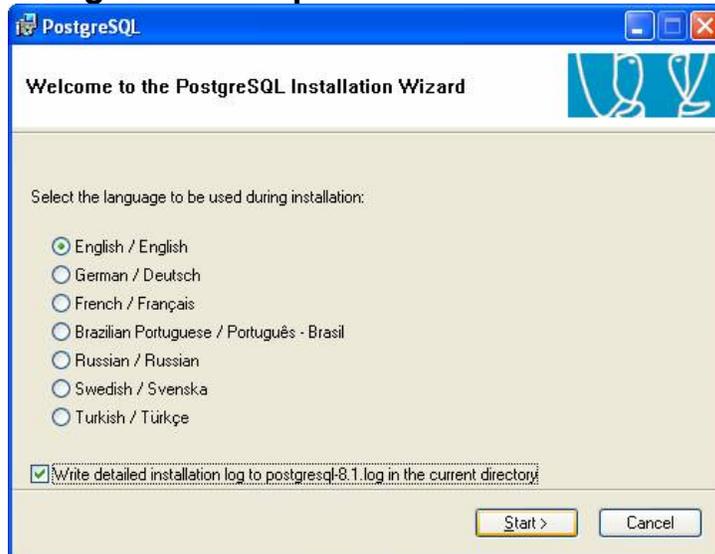
<b>Windows binary distribution (ZIP)</b>
<b>Filename:</b> postgresql-8.1.6-1.zip
<b>Size:</b> 22.6 MB
<b>Website:</b> <a href="http://www.postgresql.org/ftp/binary/v8.1.6/win32/">http://www.postgresql.org/ftp/binary/v8.1.6/win32/</a>

*Note: You will be presented with mirrors. Select one in your country and it will download*

### Extract Postgres Installation Files

- ◆ Extract the files
- ◆ Create a folder c:\postgres.install
- ◆ Extract archive there, you should end up with some Windows installation files
- ◆ Run *postgresql-8.1.msi*, the PostgreSQL Installation Wizard Opens=

### PostgreSQL Setup



- ◆ Check “Write detailed installation log to postgresql-8.1.log in the current directory.”
  - This is important as it will keep details of everything that goes on with the database.
- ◆ Click Start >

### Welcome to the PostgreSQL Installation Wizard

- ◆ Click Next >

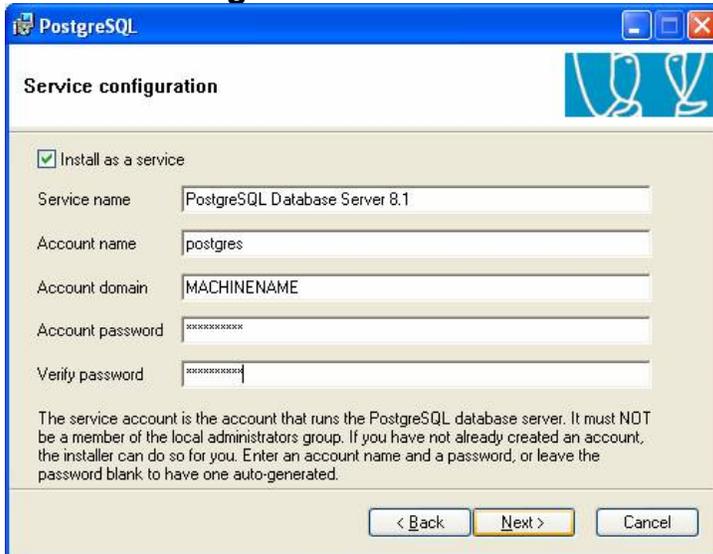
### Installation Notes

- ◆ Click Next >

## Installation Options

- ◆ Click Next >

## Service Configuration



The screenshot shows the 'Service configuration' window in the PostgreSQL installer. It has a blue title bar with the PostgreSQL logo and standard window controls. The main area is light beige and contains the following fields and options:

- Install as a service
- Service name: PostgreSQL Database Server 8.1
- Account name: postgres
- Account domain: MACHINENAME
- Account password: [masked]
- Verify password: [masked]

Below the fields is a note: "The service account is the account that runs the PostgreSQL database server. It must NOT be a member of the local administrators group. If you have not already created an account, the installer can do so for you. Enter an account name and a password, or leave the password blank to have one auto-generated."

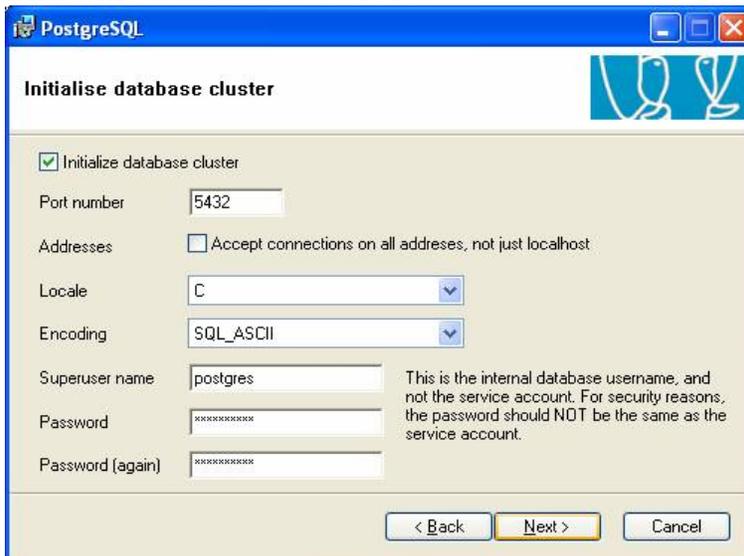
At the bottom are three buttons: '< Back', 'Next >', and 'Cancel'.

- ◆ The service account is the account that runs the PostgreSQL database server.
- ◆ Create an account name called **postgres** and set a strong password.
- ◆ You will need this when administering PostgreSQL as a service, but you will not need it for the rest of the installation.
- ◆ Click Next >

## Create User Postgres

- ◆ A window may display the following message: "Account Error: User MACHINENAME/postgres can not be found. Would you like the account to be created for you?"
- ◆ This is normal, click Yes.

## Initialize Database Cluster



The screenshot shows the 'Initialise database cluster' window in the PostgreSQL installer. It has a blue title bar with the PostgreSQL logo and standard window controls. The main area is light beige and contains the following fields and options:

- Initialize database cluster
- Port number: 5432
- Addresses:  Accept connections on all addresses, not just localhost
- Locale: C
- Encoding: SQL\_ASCII
- Superuser name: postgres
- Password: [masked]
- Password (again): [masked]

There is a note next to the Superuser name field: "This is the internal database username, and not the service account. For security reasons, the password should NOT be the same as the service account."

At the bottom are three buttons: '< Back', 'Next >', and 'Cancel'.

- ◆ Set and verify a strong password for the database superuser **postgres**.
- ◆ Record this password; you will need this username and password when setting up the OpenClinica database.
- ◆ Click Next >

*Note: This is the internal database user name and not the service account. For security reasons, the password should NOT be the same as the service account.*

## Enable Procedural Languages



- ◆ **Uncheck the PL/pgsql language.** (The database scripts you will run later will create this procedural language, and if it is created in this step those scripts will fail.)
- ◆ Click Next >

## Enable Contrib Modules

- ◆ Click Next>

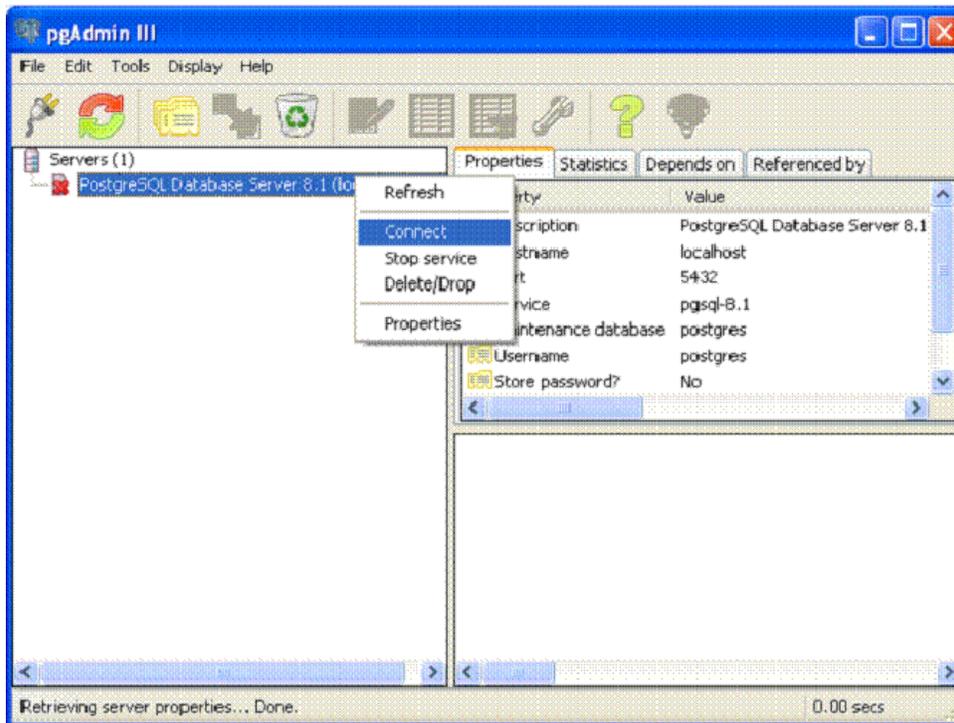
## Ready to Install

- ◆ Click Next>

## Installation Complete

- ◆ Click Finish.

## 6. Configure PostgreSQL



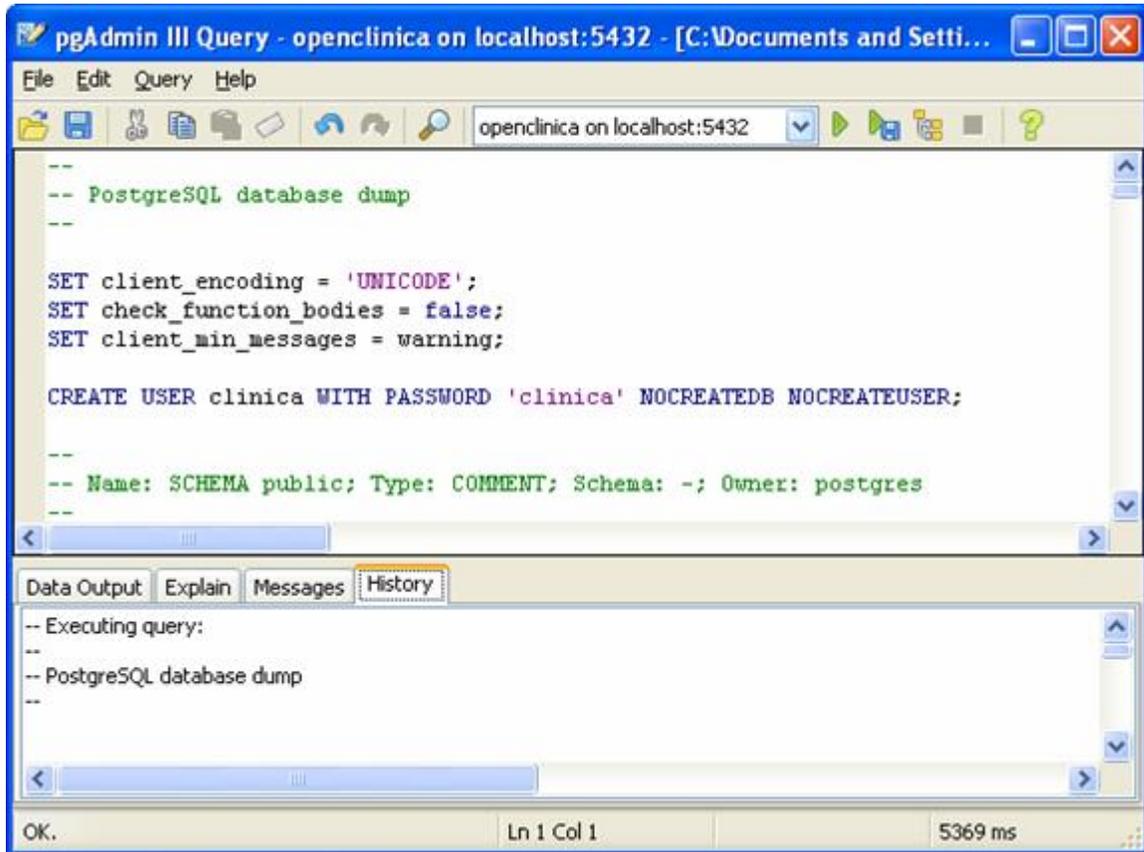
- ◆ Open pgAdminIII. Go to Start>Programs>PostgreSQL 8.1 > pgAdminIII. The pgAdminIII interface opens.
- ◆ Right click on the PostgreSQL Database Server and connect to the database server.
- ◆ Login to the database server. Enter the password you setup in the PostgreSQL installation for the Initialize Database Cluster section.

## Create a Database



- ◆ Right click the Databases item and select New Database.
- ◆ Database properties: Name the database **openclinica** and set the owner to **postgres**.

## 7. Create Database Tables



- ◆ Select the OpenClinica database. Click Tools>Query tool to open the SQL editor.
- ◆ Select File>Open from the menu;
  - Open and Execute *create\_db\_role.sql* in the *C:\OpenClinica\OpenClinica-2.0.1\database\PostgreSQL\2.0.1\install* folder.
- ◆ Select Query>Execute
  - You will see a message in the “History” window indicating the query has completed.
- ◆ Select File>Open from the menu;
  - Open and Execute *create\_database\_2\_0\_1\_with\_data.sql* in the *C:\OpenClinica\OpenClinica-2.0.1\database\PostgreSQL\2.0.1\install* folder.
- ◆ Select Query>Execute
  - You will see a message in the “History” window indicating the query has completed.

*Note: The initial file creates a user named “clinica” with the password “clinica” and the second builds the database. This account owns all the entities created in the process. Other applications can connect to the database with the username clinica and password. If you change this username, you must modify several configuration files (See ‘Configure the Web Application’).*

*Note: you may receive warnings or error messages while executing these scripts, this is normal and should not affect installation.*

*Note: The script also creates an empty table called “test\_table\_three” which is the datamart used for querying data. Please follow the instructions on setting up the datamart later in this guide.*

- ◆ Close pgAdminIII

## 8. Install Tomcat

- ◆ Download Apache Tomcat 5.5.20, use the Windows Service Installer version.

<b>Windows binary distribution (EXE)</b>
<b>Filename:</b> apache-tomcat-5.5.20.exe
<b>Size:</b> 4.85 MB
<b>Website:</b> <a href="http://apache.oregonstate.edu/tomcat/tomcat-5/v5.5.20/bin/">http://apache.oregonstate.edu/tomcat/tomcat-5/v5.5.20/bin/</a>

- ◆ Create a folder c:\tomcat5
- ◆ Run apache-tomcat-5.5.20.exe, the Apache Tomcat Setup installation wizard appears.

### Tomcat Setup

- ◆ Click Next >

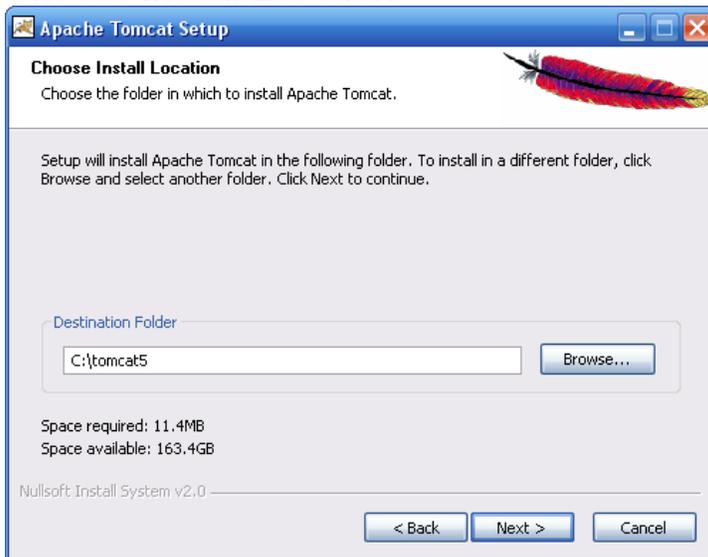
### License Agreement

- ◆ Click I Agree

### Choose Components

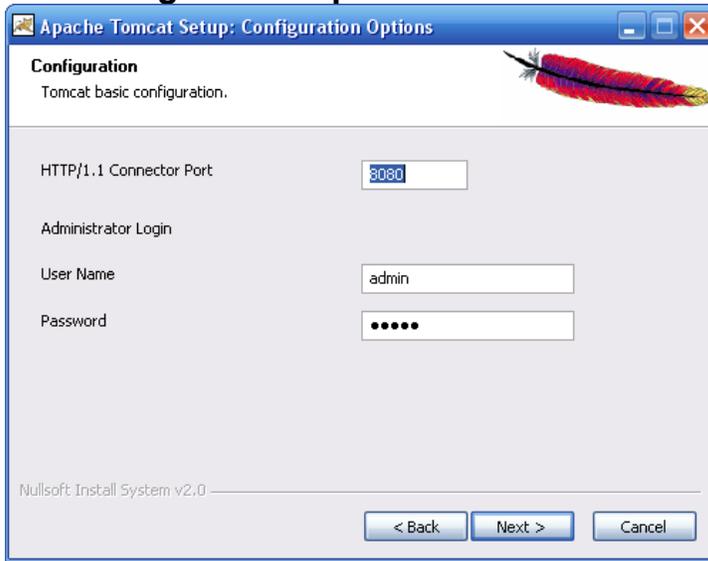
- ◆ Choose Normal from the “Select the type of install” dropdown list.
- ◆ Click Next >

### Choose Install Location



- ◆ **Change the destination folder to C:\tomcat5**
- ◆ Click Next >

## Set Configuration Options



**Configuration**  
Tomcat basic configuration.

HTTP/1.1 Connector Port:

Administrator Login

User Name:

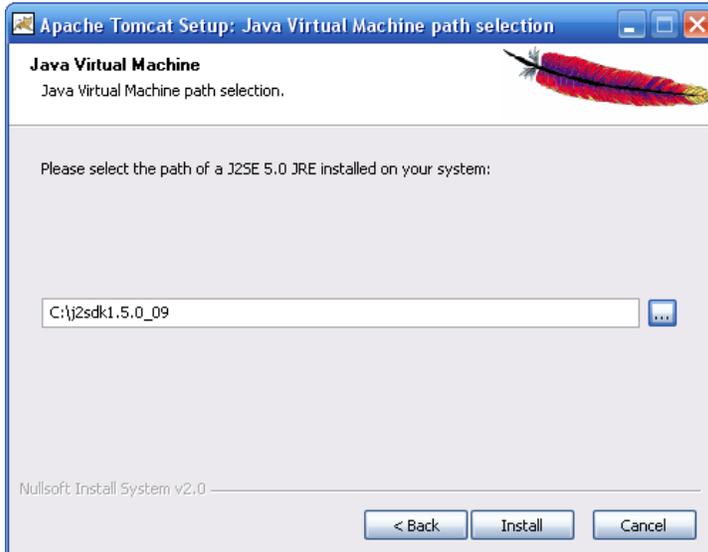
Password:

Nullsoft Install System v2.0

< Back   Next >   Cancel

- ◆ Verify the HTTP Connector Port is 8080
- ◆ Type a password for the admin login account. You will need this password to administer the Apache Tomcat server, and to get to the Tomcat Manager.
- ◆ Click Next >

## Locate the Java Virtual Machine



**Java Virtual Machine**  
Java Virtual Machine path selection.

Please select the path of a J2SE 5.0 JRE installed on your system:

Nullsoft Install System v2.0

< Back   Install   Cancel

- ◆ The path to JVM should be c:\j2sdk1.5.0\_10\

*Note: do not use c:\j2sdk1.5.0\_10\jre, Tomcat will still install, but will be missing libraries you need to run OpenClinica.*

- ◆ Click Install
- ◆ Setup will begin transferring files.

## Install Complete



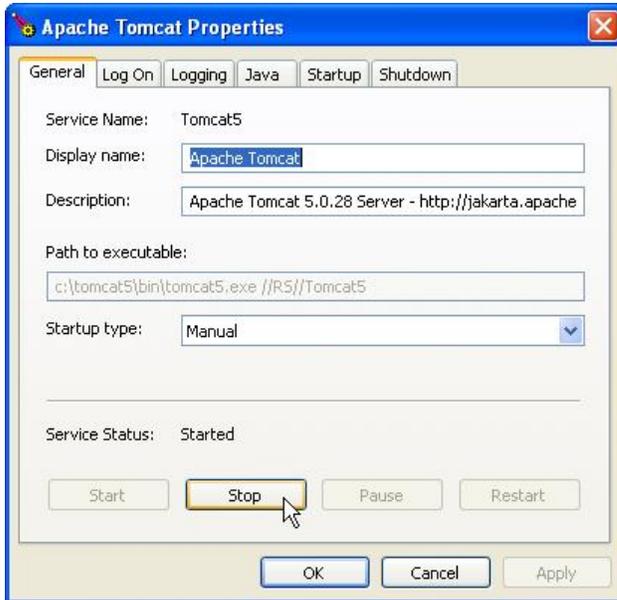
- ◆ Check the Run Apache Tomcat checkbox.
- ◆ Uncheck the Show Readme checkboxes.
- ◆ Click Finish. Tomcat is now installed

## Create CATALINA\_HOME Environment Variable

- ◆ Right click on My Computer, and select Properties
- ◆ Select the Advanced tab
- ◆ Click the Environment Variables button.
- ◆ In the System Variables group, click the New button
- ◆ Create a CATALINA\_HOME variable that has the path to the jdk (should be CATALINA\_HOME=C:\tomcat5).
- ◆ Click OK
- ◆ Click OK
- ◆ Click OK

## 9. Configuring the Web Application

### Start Tomcat



- ◆ Make sure Tomcat is running.
- ◆ You should see the Tomcat monitor in the system tray. Click this to bring up the Apache Tomcat properties window. (You can also use the Windows services applet)

- ◆ Open a browser to <http://localhost:8080/manager/html>, and enter your tomcat password. This is the password you entered in step 8.

**The Apache Software Foundation**  
http://www.apache.org/

**Tomcat Web Application Manager**

Message: OK

**Manager**

[List Applications](#)   [HTML Manager Help](#)   [Manager Help](#)   [Server Status](#)

**Applications**

Path	Display Name	Running	Sessions	Commands
/	Welcome to Tomcat	true	0	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a>
/OpenClinica	Welcome to Tomcat	true	0	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a>
/host-manager	Tomcat Manager Application	true	0	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a>
/manager	Tomcat Manager Application	true	0	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a>
/studycalendar		false	0	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a>
/tomcat-docs	Tomcat Documentation	true	0	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a>
/upt	NCI Security Admin Application	true	0	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a>

**Deploy**

**Deploy directory or WAR file located on server**

Context Path (optional):

XML Configuration file URL:

WAR or Directory URL:

**WAR file to deploy**

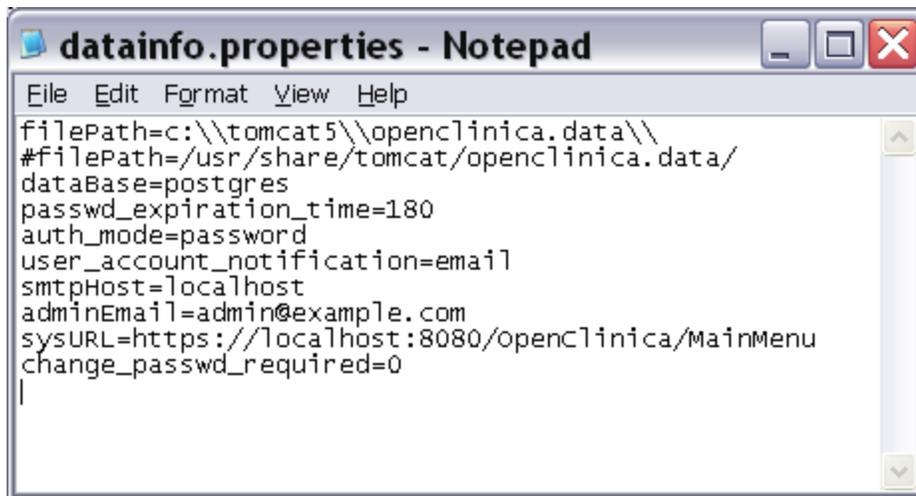
Select WAR file to upload

- ◆ In the 'WAR' file to deploy section, click Browse and find the OpenClinica.war file in C:\openclinica\OpenClinica-2.0.1\lib folder.
- ◆ Click Deploy
- ◆ OpenClinica should be listed in the Applications section.

## Create Data Folders

- ◆ Create a directory `c:\tomcat5\openclinica.data`
- ◆ This directory will store all CRFs (original and subsequent versions) and dataset files.
- ◆ This is folder also contains the CRF spreadsheet template. To offer the template through your system, create a folder "crf" under the path `C:\tomcat5\openclinica.data` and copy `C:\OpenClinica\OpenClinica-2.0.1\conf\CRF_Design_Template.xls` into this folder.

## Modify Configuration Files for Server Specific Settings



- ◆ Open `C:\tomcat5\webapps\OpenClinica\properties\datainfo.properties` file in your text editor and modify it to use the IP addresses of your server, database, and mail servers.
- ◆ You must be sure to comment out the Linux filePath and uncomment the windows filePath, and be sure the filePath references the data folder you just created. The windows file path starts with a `c:\`. Use a '#' character at the start of the line to comment it out.
- ◆ Be sure the filePath references the data folder you just created.

*Note: The screenshots use the loop back address (localhost or 127.0.0.1), you can use this address to verify the installation on the install machine, but you will have to go back and change this to the server's address before you can use the application on an intranet or over the web.*

```
<!--
Context configuration file for the Tomcat Administration Web App
$Id: OpenClinica.xml,v 1.6 2007/03/02 17:27:17 jsampson Exp $
-->

<Context path="/OpenClinica" docBase="OpenClinica" debug="99" reloadable="true"
crossContext="true" useNaming="true">
  <!--Linux users will need to change the propertiesDir value, usually
  /usr/share/tomcat/webapps/OpenClinica/properties -->
  <Parameter name="propertiesDir" value="C:\\tomcat5\\webapps\\OpenClinica\\properties\\"
  override="false"/>

  <Realm className="org.apache.catalina.realm.JDBCRealm" debug="99"
  driverName="org.postgresql.Driver" digest="MD5"
  connectionURL="jdbc:postgresql://localhost:5432/openclinica"
  connectionName="clinica" connectionPassword="clinica" userTable="user_account"
  userNameCol="user_name" userCredCol="passwd"
  userRoleTable="study_user_role" roleNameCol="role_name"/>

  <Logger className="org.apache.catalina.logger.FileLogger" prefix="openclinica_log_1.0."
  suffix=".txt" timestamp="true"/>

  <Resource name="SQLPostgres" auth="Container"
  type="javax.sql.DataSource" factory="org.apache.tomcat.dbcp.dbcp.BasicDataSourceFactory"
  username="clinica"
  password="clinica"
  driverClassName="org.postgresql.Driver"
  url="jdbc:postgresql://localhost:5432/openclinica"
  maxActive="100"
  maxIdle="30"
  maxWait="10000"/>
</Context>
```

- ◆ **Copy C:\OpenClinica\OpenClinica-2.0.1\conf\OpenClinica.xml to C:\tomcat5\conf\Catalina\localhost**
- ◆ Open C:\tomcat5\conf\Catalina\localhost\OpenClinica.xml in your text editor.
- ◆ Modify the path and docbase attributes of the Context node to "/OpenClinica"
- ◆ If necessary, modify the value attribute of the propertiesDir node to "c:\tomcat5\webapps\OpenClinica\properties\" (Note the escaped backslashes.)
- ◆ Copy C:\openclinica\OpenClinica-2.0.1\lib\postgresql-8.1-405.jdbc3.jar to C:\tomcat5\common\lib
- ◆ Stop Tomcat
- ◆ Start Tomcat

## ◆ 10. Setting up the Datamart

In order to use the Extract Data features, you need to setup the application's datamart. This pulls data from various tables so it can be queried. You can create the datamart manually by executing the `pg_data_warehouse.sql` script, located in OpenClinica's conf folder.

You will probably want to setup this script to execute regularly, such as on a daily basis. To do this, you will want to execute the following AT commands on the server. These will setup the script to be executed daily at midnight.

- ◆ Execute the `C:\OpenClinica\OpenClinica-2.0.1\conf\setup_data_warehouse.bat` batch script. This sets seven scheduled tasks, one for each day of the week. One of these commands looks like this:

```
AT 00:00 /every:SUNDAY java -cp C:\OpenClinica\OpenClinica-  
2.0.1\conf;C:\OpenClinica\OpenClinica-2.0.1\conf\postgresql-8.1-41.jdbc3.jar  
UpdateWarehouseJDBC C:\OpenClinica\OpenClinica-  
2.0.1\conf\update_warehouse_jdbc.properties
```

- ◆ You may need to change the paths in `setup_data_warehouse.bat` to fit your installation folders. *Note: If you have changed the location or name of the OpenClinica package you MUST edit this file to refer to the new location.*
- ◆ You can run AT with no parameters to verify the jobs have been loaded.
- ◆ You may need to change the parameters in `update_warehouse_jdbc.properties` with the location of the `pg_data_warehouse.sql` file, and the database name, user, and password.

## 11. Verify your Environment

- ◆ Open a command line and type “set JAVA\_HOME” and verify the variable is set to your Java directory (in this case probably JAVA\_HOME=C:\j2sdk1.5.0\_10)
- ◆ Open a command line and type “set CATALINA\_HOME” and verify the variable is set to your Tomcat directory (in this case probably CATALINA\_HOME=c:\tomcat5)
- ◆ Open a web browser on the server to <http://localhost:8080> and verify Tomcat is up and running.
- ◆ Open a web browser on the server to <http://localhost:8080/OpenClinica> and verify the web application loads. You should see the OpenClinica login screen.
- ◆ Login to the system. The default username is *root* and the password is *12345678*. *Note: If you get a blank screen after trying to login, Tomcat was probably not able to make a connection to the database, or the database is empty or missing account information. For more information on troubleshooting, refer to the OpenClinica wiki. <http://openclinica.org/dokuwiki/doku.php?id=publicwiki:faq>*
- ◆ Add some users. Don't forget to change the root user's password.
- ◆ Please refer to the OpenClinica Quick Start guide for instructions on setting up a simple study.

At this point the application has been installed correctly. You should now spend some time setting up a secure environment, and then creating your studies.

- ◆ **You should change the password for the database.** You will need to go into pgAdminIII and change it for the *clinica* user, and then go into the C:\tomcat5\conf\Catalina\localhostOpenClinica.xml file, change the *connectionPassword* attribute of the *Realm* node, and change the value of *password* in *ResourceParams* node.
- ◆ **Akaza Research strongly recommends securing the Tomcat application server using SSL. SSL is the technology used to make secured 'https://' connections. SSL requires a third-party security certificate to be effective. For more information, please [contact@akazaresearch.com](mailto:contact@akazaresearch.com) regarding our Enterprise services.**
- ◆ You will need to change the localhost URLs in the configuration files (datainfo.properties and OpenClinica.xml) to match your desired server settings. If you are planning on using OpenClinica over the web, this will need to be your server's or proxies URL and you may need to open the Tomcat port.
- ◆ Enterprise support services, mailing lists, and additional resources for OpenClinica are available at <http://www.openclinica.org>.

## 12. Known Issues

- ◆ Please note, these instructions are for new installations of OpenClinica 2.0.1. There is a patch package available for OpenClinica 2.0 users who would like to upgrade. If you are using a version of OpenClinica older than 2.0, refer to the 2.0 package for instructions on upgrading to 2.0.

**OpenClinica** Home Submit Data Extract Data Manage Study Business Admin

**Study:** Default Study  
**Start Date:** 10/03/2005  
**End Date:** 10/03/2005  
**PI:** default  
**Protocol Verification/IRB Approval Date:** 10/03/2005  
**Collect Subject Date of Birth?:** Not Used

### OpenClinica: An error has occurred

An error has occurred in the application. This can be for a number of reasons, not all Web application. If there are any messages above this text, please cut and paste them.

If there are no messages, you might try clicking on the links in the header, and see what connection with the database. Or [click here](#) to take you back where you came from.

In any event, if you can't get back to a working page, please let us know. Please be sure to include:

- what you were doing,
- when it happened,
- and any other details (like error messages) that might be important.

Thanks,  
The OpenClinica Development Team

- ◆ If you encounter a screen similar to the one above, you can browse the tomcat logs in `c:\tomcat5\logs` to determine the source of the exception. This will help you troubleshoot the issue.
- ◆ For exceptions caused by the JDBC driver try copying the jdbc driver files from `C:\Program Files\PostgreSQL\8.1.4-1\jdbc` to `C:\tomcat5\common\lib`
- ◆ For complete details about this release, please refer to the README.txt file.