

**This Guide is intended to help users install and configure Open Meetings 2.X on a Windows based machine (XP /7/2003/2008)**

**The guide Includes Integration into MySQL DB and has some basic steps for installing and configuring Ant for compiling from source.**

## Installing Windows XP

### Step 1: - Base System

```
Windows XP Professional Setup

Welcome to Setup.

This portion of the Setup program prepares Microsoft(R)
Windows(R) XP to run on your computer.

• To set up Windows XP now, press ENTER.
• To repair a Windows XP installation using
  Recovery Console, press R.
• To quit Setup without installing Windows XP, press F3.

ENTER=Continue  R=Repair  F3=Quit
```

Press enter to continue.

```
Windows XP Licensing Agreement

Microsoft(R) Windows(R) XP Professional, Microsoft(R)
Windows(R) XP Tablet PC Edition and Microsoft(R) Windows(R) XP
Media Center Edition 2004

END-USER LICENSE AGREEMENT FOR MICROSOFT
SOFTWARE

IMPORTANT-READ CAREFULLY: This End-User
License Agreement ("EULA") is a legal agreement between you
(either an individual or a single entity) and the manufacturer
("Manufacturer") of the computer system or computer system
component ("HARDWARE") with which you acquired the Microsoft
software product(s) identified on the Certificate of Authenticity
("COA") affixed to the HARDWARE or on the associated product
documentation ("SOFTWARE"). The SOFTWARE includes Microsoft
computer software, and may include associated media, printed
materials, "online" or electronic documentation, and Internet
based services. Note, however, that any software, documentation,
or web services that are included in the SOFTWARE, or accessible
via the SOFTWARE, and are accompanied by their own license
agreements or terms of use are governed by such agreements
rather than this EULA. The terms of a printed paper EULA,
which may accompany the SOFTWARE, supersede the terms of
any on-screen EULA. This EULA is valid and grants the end-user
rights ONLY if the SOFTWARE is genuine and a genuine Certificate
of Authenticity for the SOFTWARE is included. For more
information on identifying whether your software is genuine,

F8=I agree  ESC=I do not agree  PAGE DOWN=Next Page
```

Press F8 to accept License Agreement

```
Windows XP Professional Setup

The following list shows the existing partitions and
unpartitioned space on this computer.

Use the UP and DOWN ARROW keys to select an item in the list.

• To set up Windows XP on the selected item, press ENTER.
• To create a partition in the unpartitioned space, press C.
• To delete the selected partition, press D.

10237 MB Disk 0 at Id 0 on bus 0 on atapi [MBR]
  Unpartitioned space                10237 MB

ENTER=Install  C=Create Partition  F3=Quit
```

Press Enter to install to the unpartitioned space in the hard drive.

```
Windows XP Professional Setup

A new partition for Windows XP has been created on
10237 MB Disk 0 at Id 0 on bus 0 on atapi [MBR].

This partition must now be formatted.

From the list below, select a file system for the new partition.
Use the UP and DOWN ARROW keys to select the file system you want,
and then press ENTER.

If you want to select a different partition for Windows XP,
press ESC.

Format the partition using the NTFS file system (Quick)
Format the partition using the FAT file system (Quick)
Format the partition using the NTFS file system
Format the partition using the FAT file system

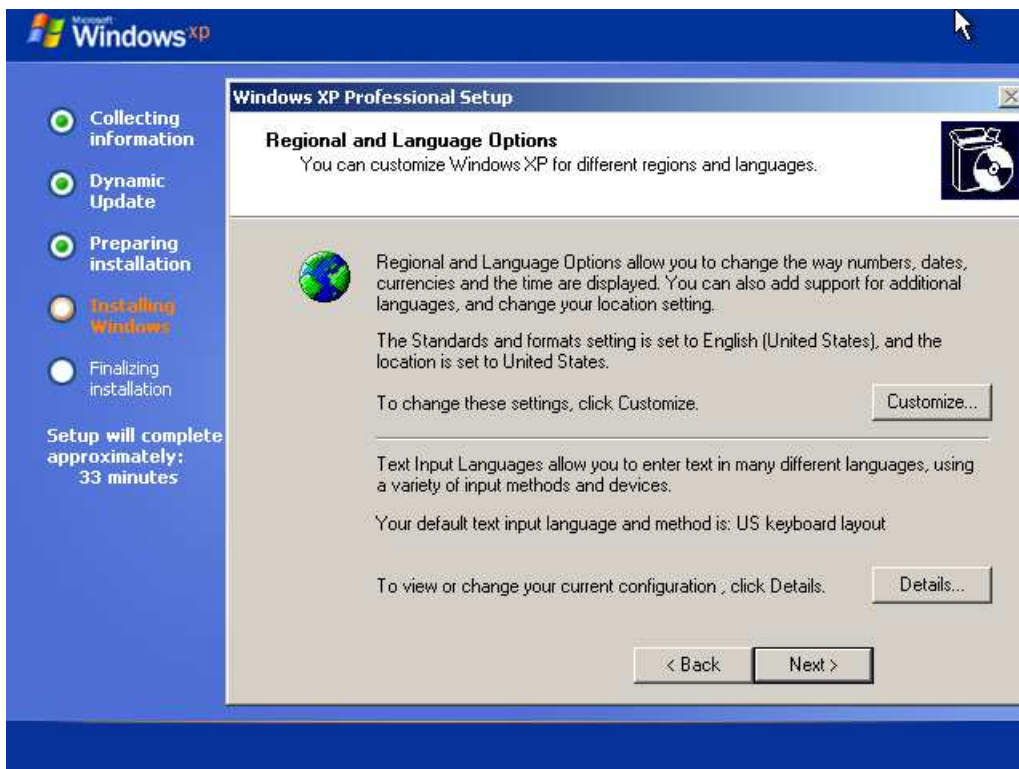
ENTER=Continue  ESC=Cancel
```

Press Enter to Format using NTFS file system and let it reboot after its completed

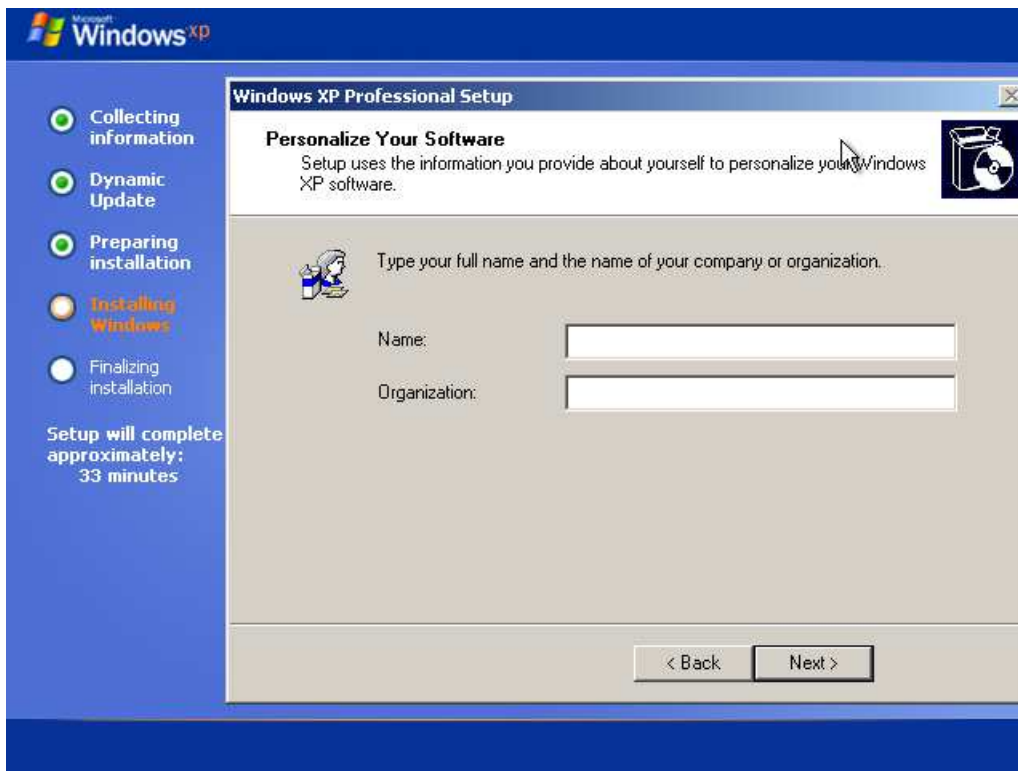
The install should now continue like below:



This may take a little while before you will be presented with the following:



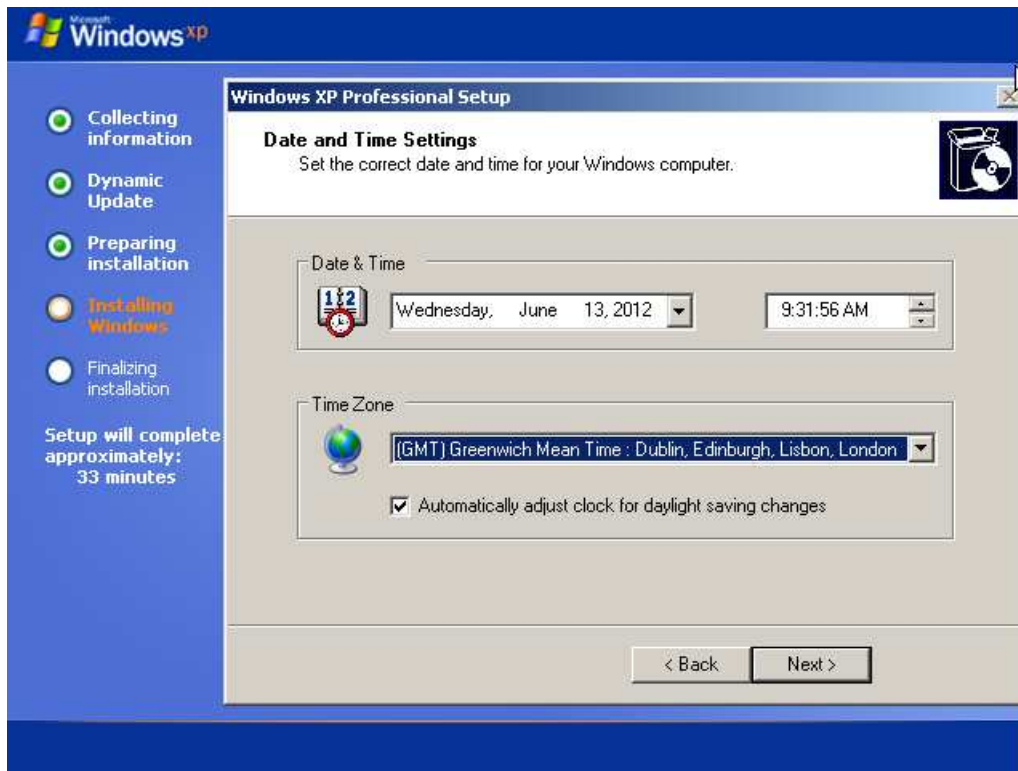
Set your region and language and then choose Next.



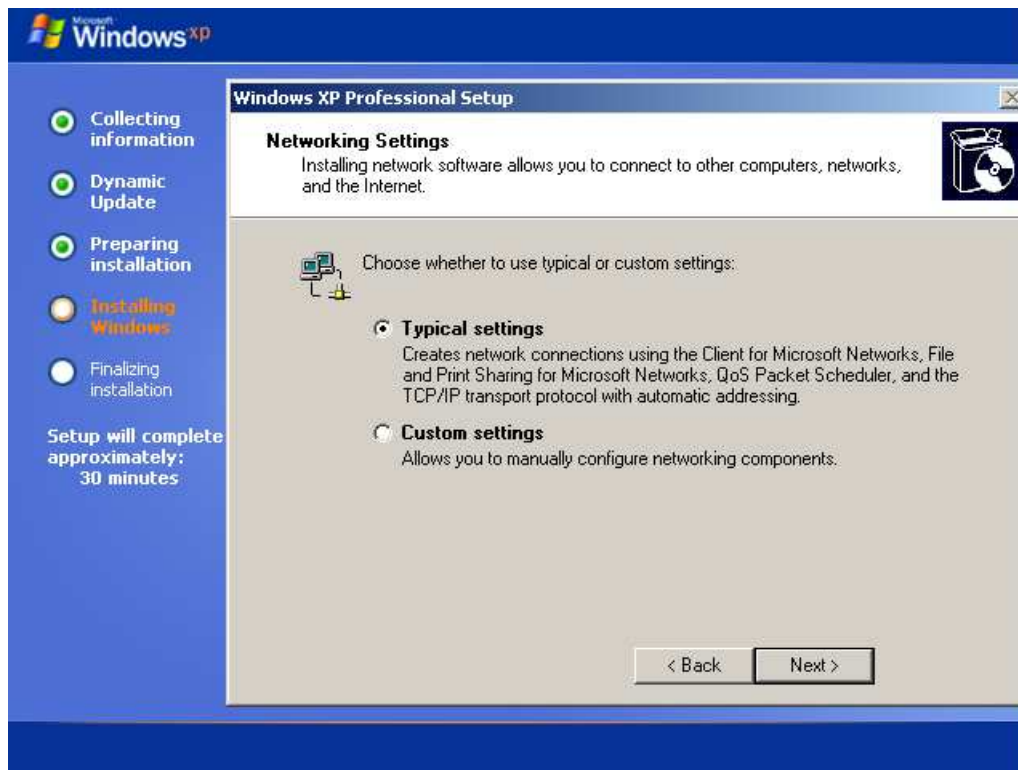
Enter your Name and Organisation and choose Next.



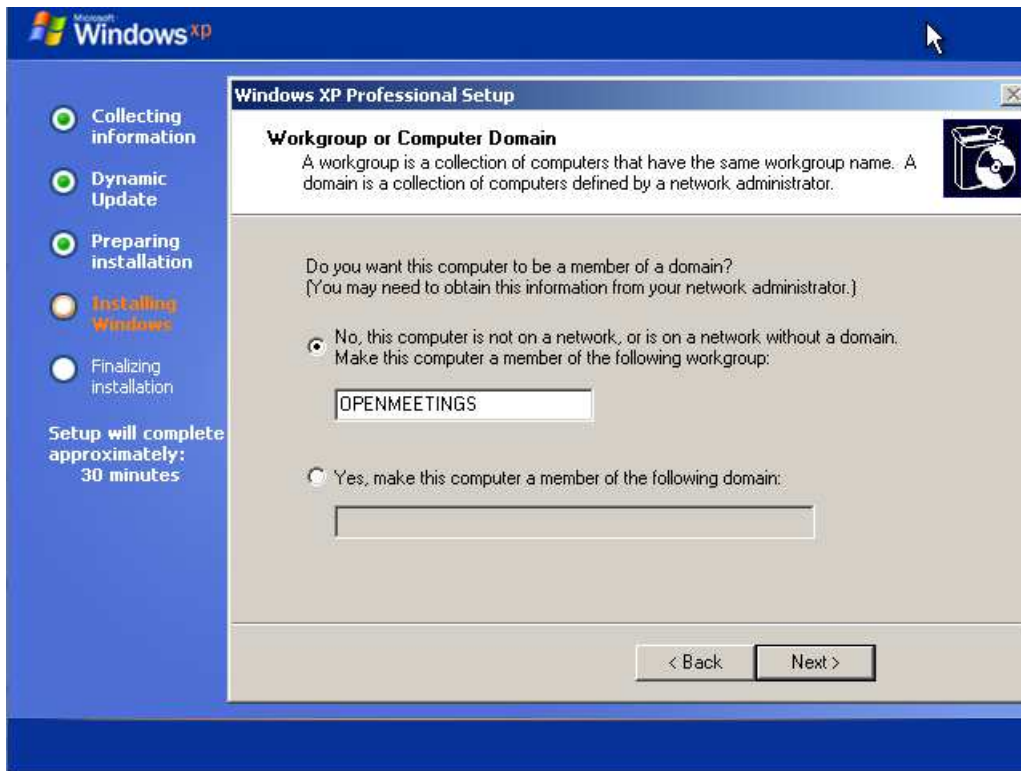
Enter the Computer name and set the admin password and choose Next.



Enter the timezone and click Next.



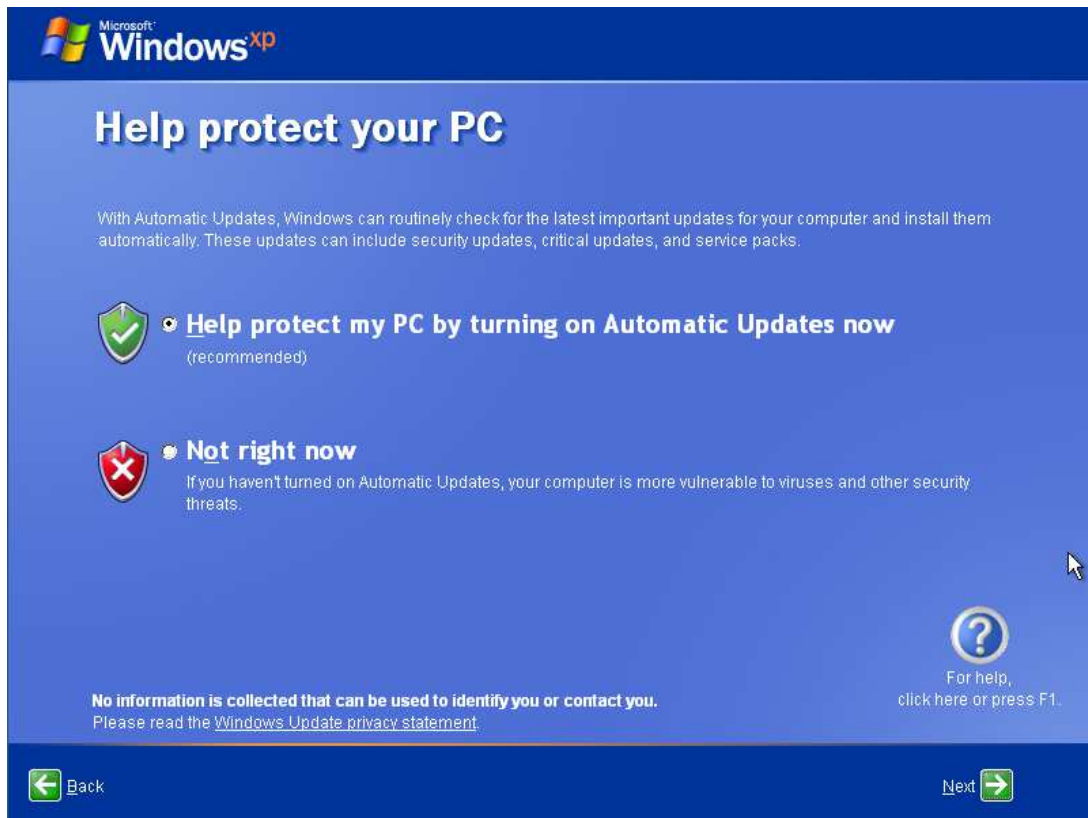
Choose Typical Settings and click Next.



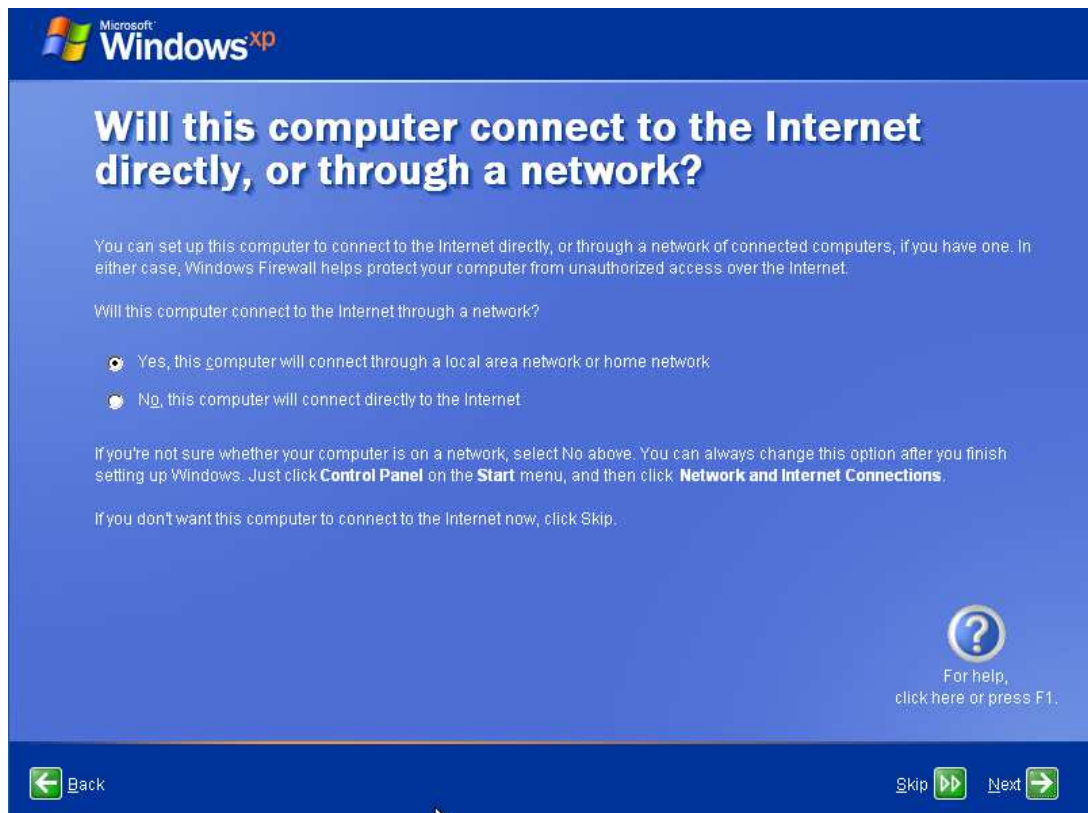
Set the Workgroup and click next, this will now continue the install and reboot.



Choose next.

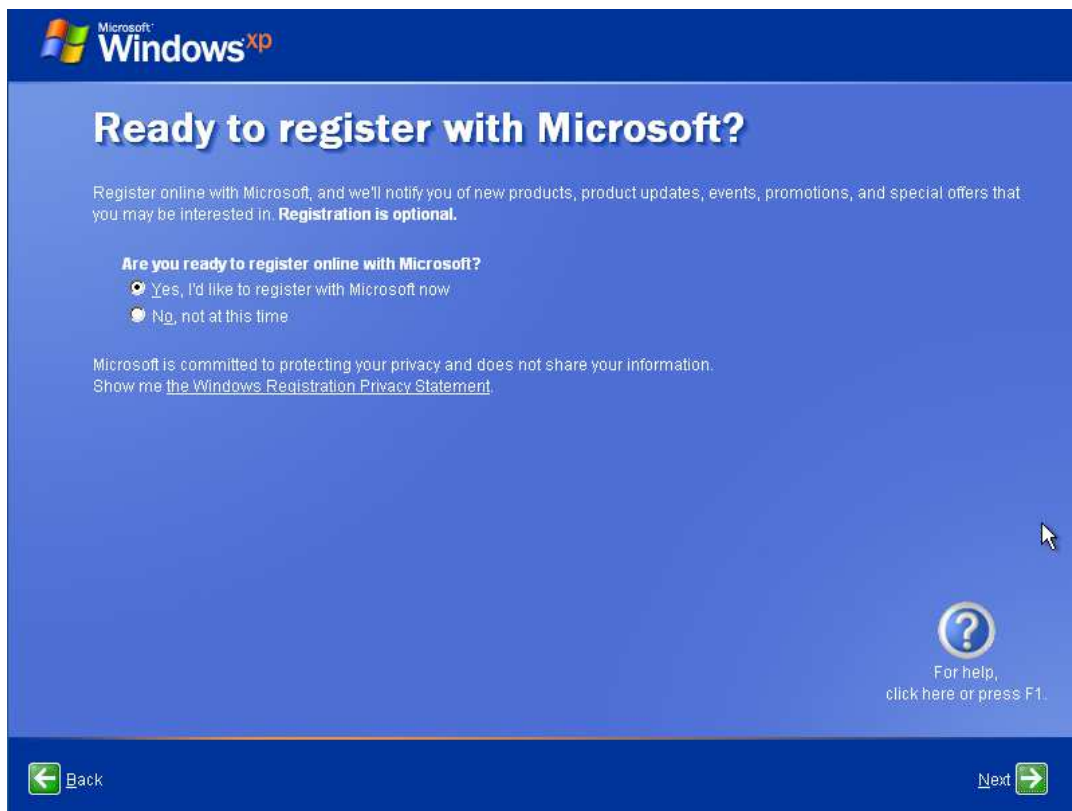


Select "Help Protect my PC...." Choose Next.

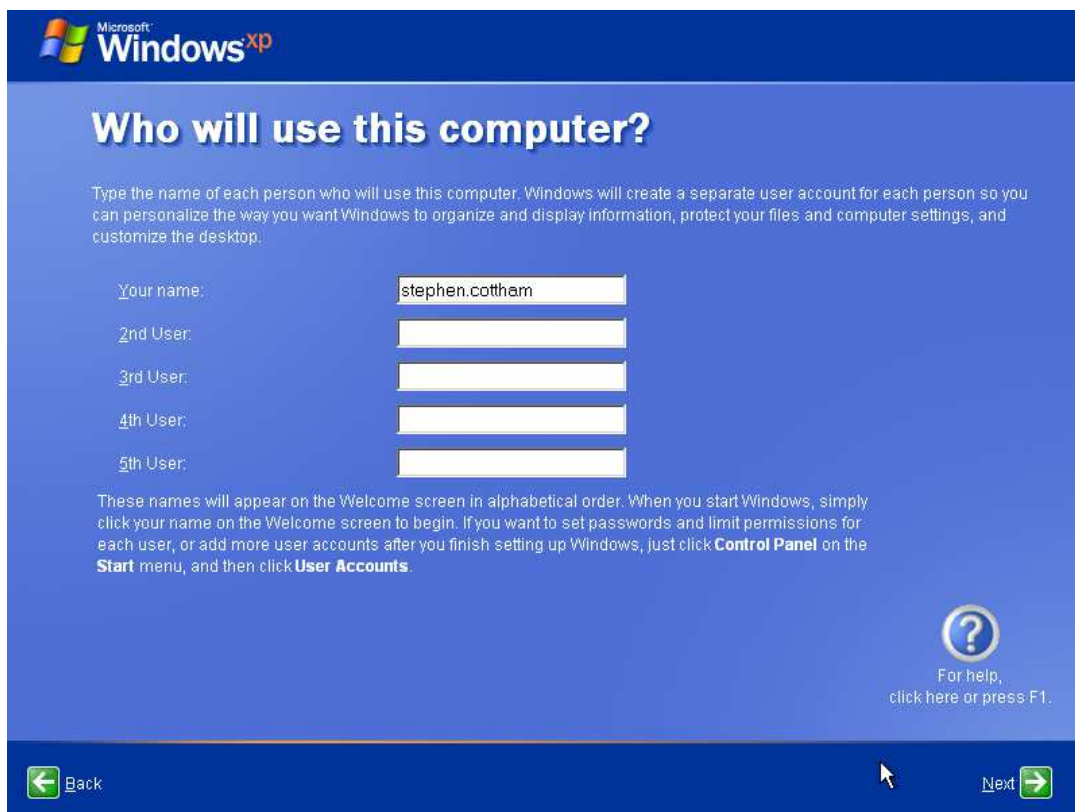


Choose "Yes, this computer will...." And click on Next.

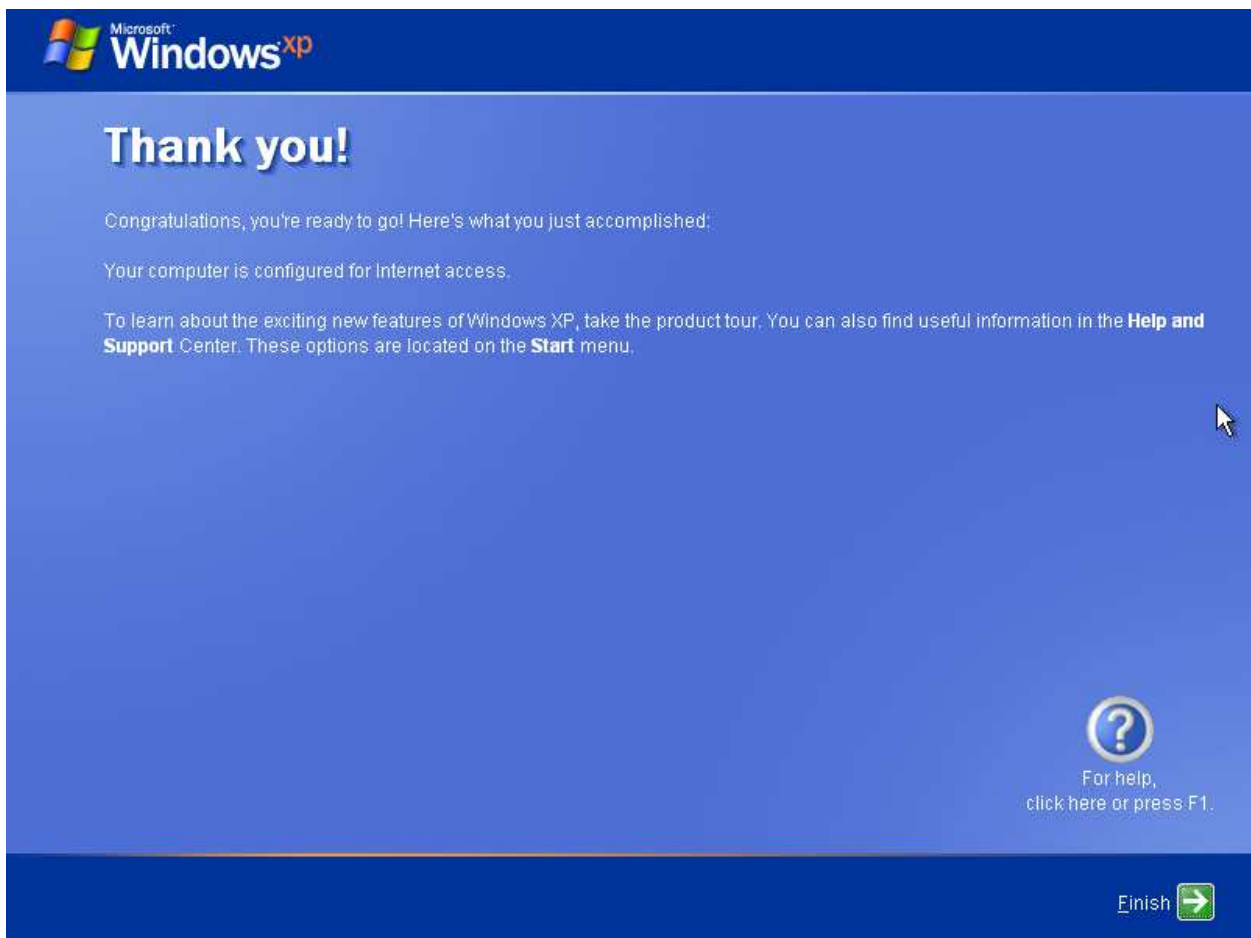




Click on next.



Enter the users name and click on Next.

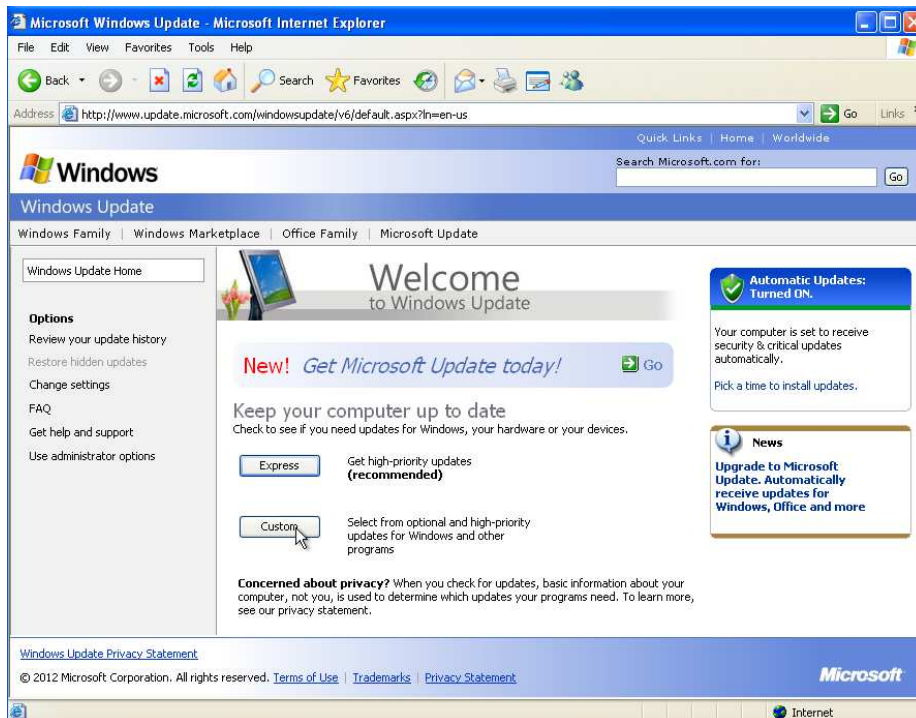


Finally click on Finish, we can now login to ur fresh system for the first time.

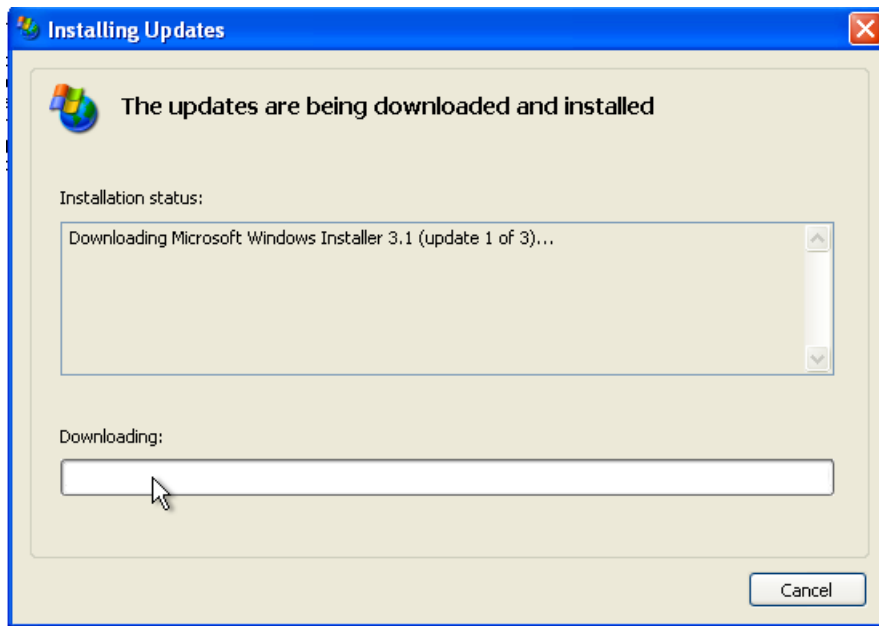
Step 2: - Update Windows XP to SP3



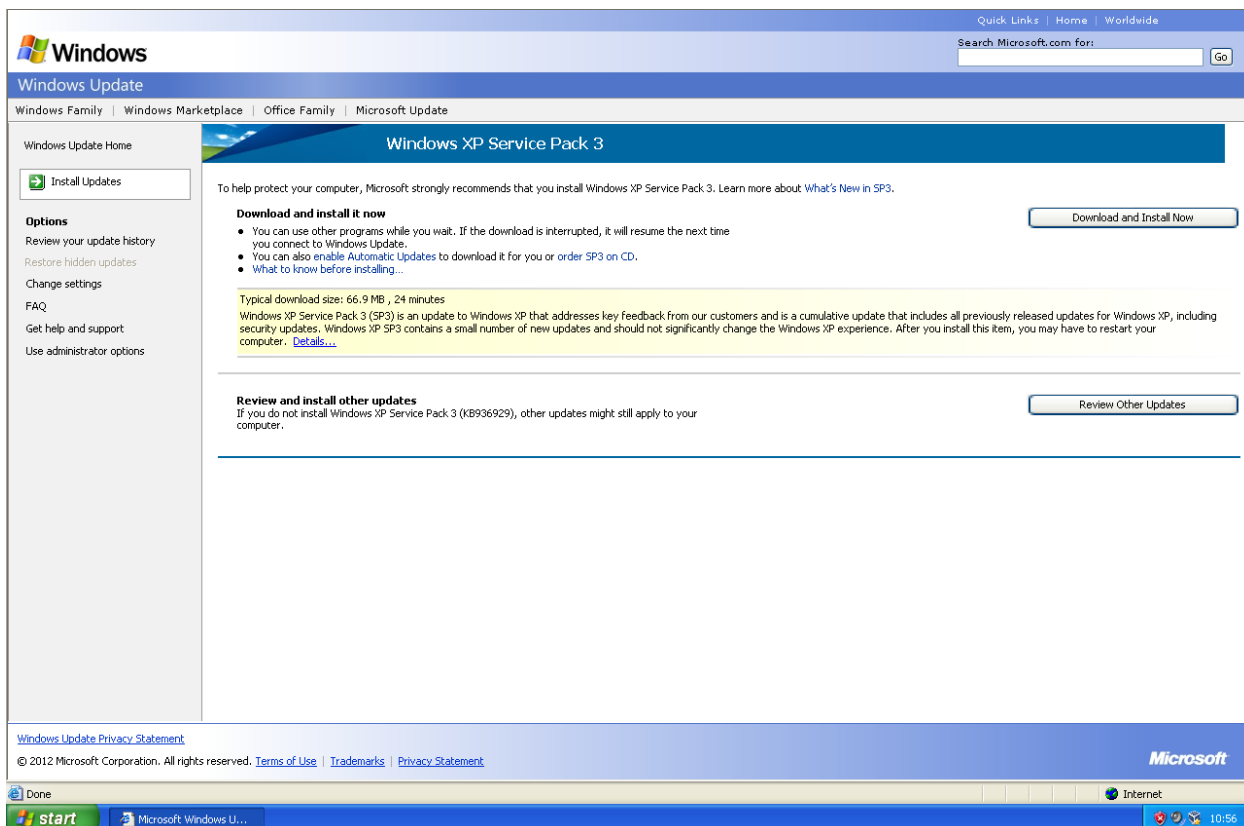
Goto Start > All Programs > Windows Update



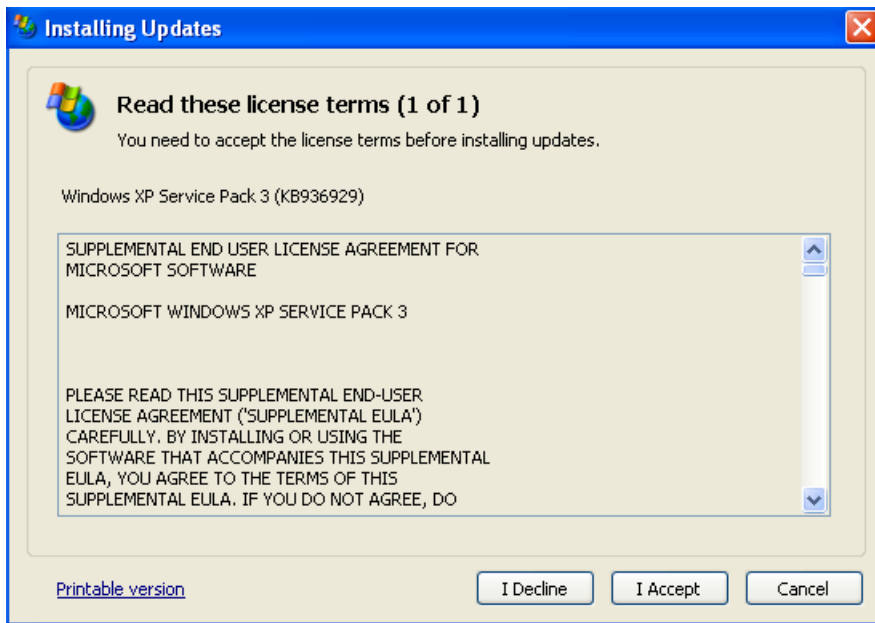
Choose Custom.



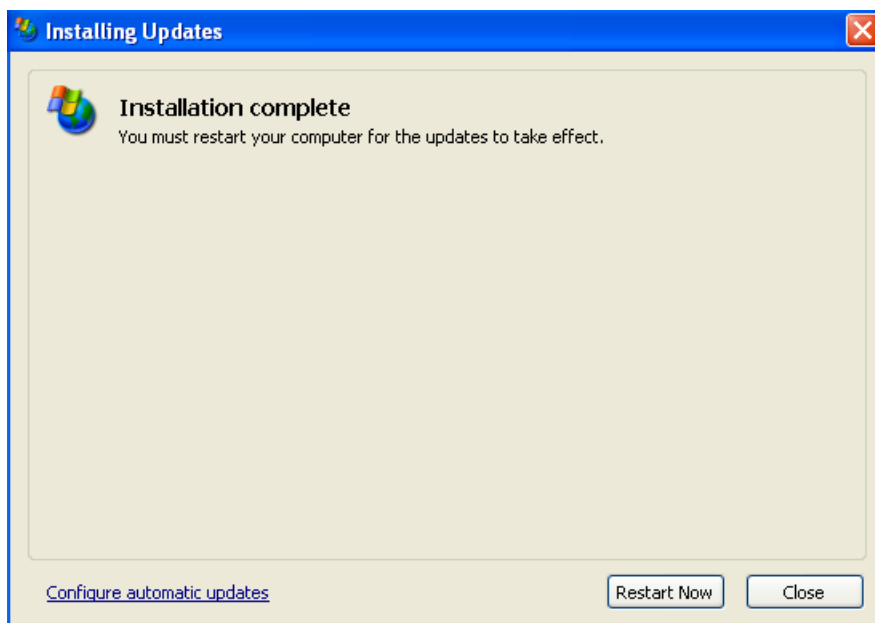
First it will ask you to update the Windows installer to 3.1, chose yes and then restart the machine when asked. Once it has rebooted follow the same procedure to start Windows Update and again choose custom.



Choose to Download and Install Service Pack 3.



Accept the License terms and let this continue until reboot.

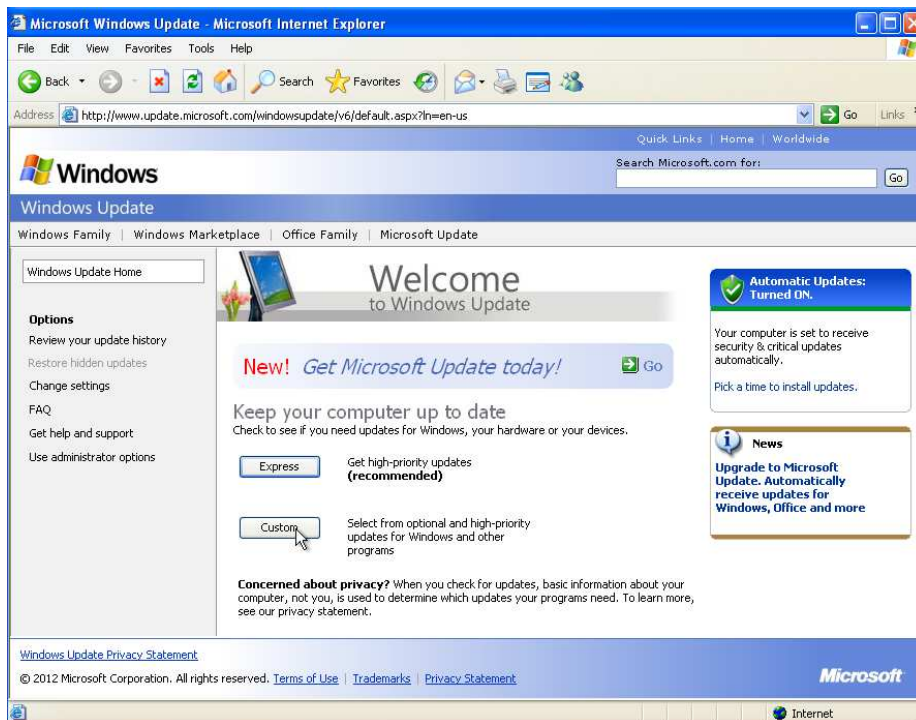


Reboot.

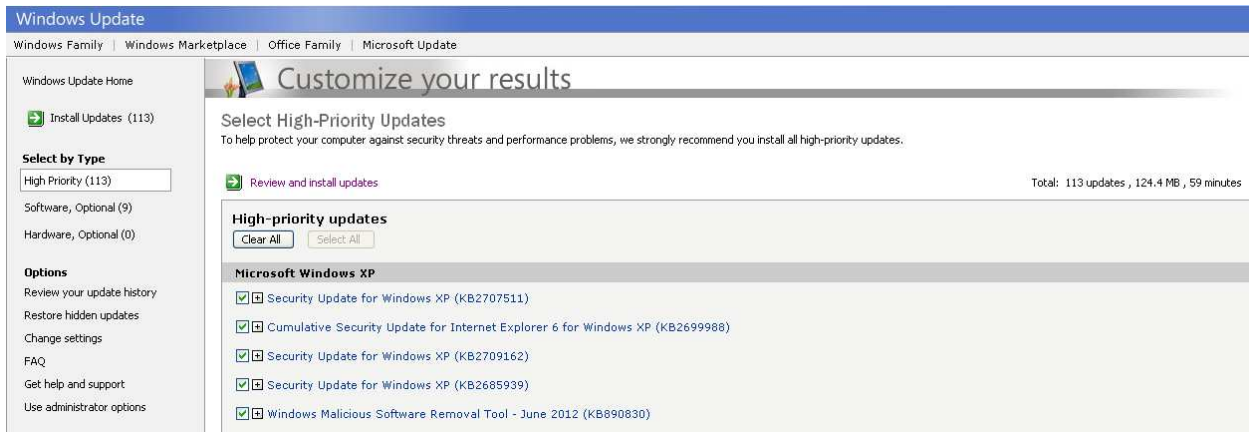
**Step 4: Install all Security and MS Patches to latest version.**



Goto Start > All Programs > Windows Update



Choose Custom.



Click on Review and Install updates, then choose Install, once that's finished and reboot

## Step 5: Install 7-Zip and WinRAR

<http://downloads.sourceforge.net/sevenzip/7z920.exe>

<http://www.rarlab.com/rar/wrar42b3.exe>

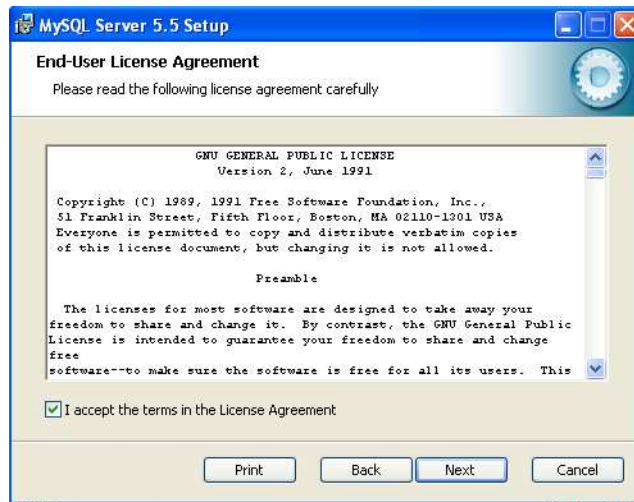
Download and install the above program using the default options.

## Step 6: Install MySQL 5.5.25

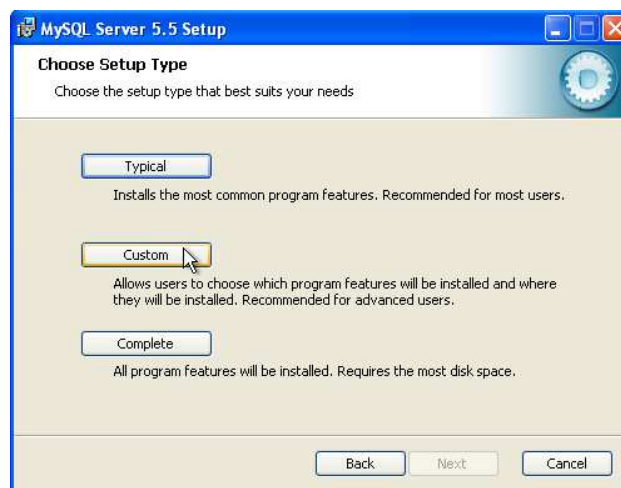
<http://dev.mysql.com/get/Downloads/MySQL-5.5/mysql-5.5.25-win32.msi/from/http://www.mirror-service.org/sites/ftp.mysql.com/>



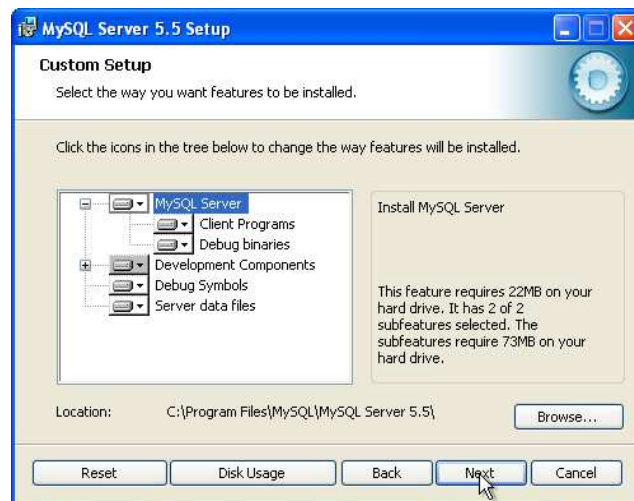
Choose next.



Accept the agreement



Choose Custom and then next.



Choose Next and then Install





Now choose Finish to launch the Configuration Wizard.



Select Standard Configuration and choose next.



## OpenMeetings 2.X Installation on Windows XP\7 32\64bit

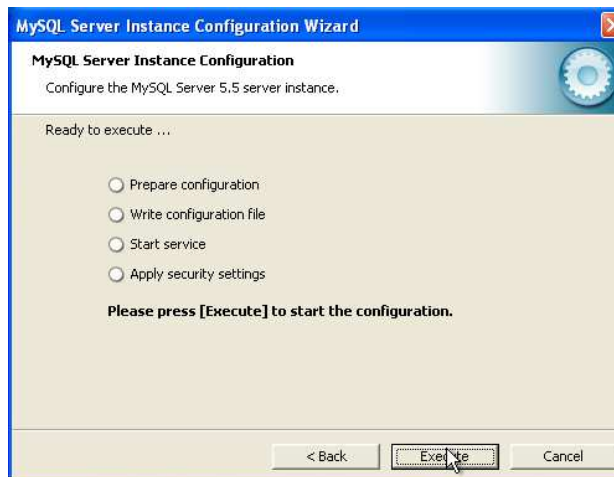
Stephen Cottham

13/06/2012

Tick the “Include Bin Directory in Windows PATH” and choose next.



Set the root password and tick the enable root access from remote machines.



And now click Execute.



If all went to plan you should be see the above window, click on Finish

**Step 6: Install Java 1.6 JDK**

<http://www.oracle.com/technetwork/java/javase/downloads/jdk-6u25-download-346242.html>

Choose jdk-6u25-windows-i586.exe and install with default options

**Step 7: Install SWFTools**

<http://www.swftools.org/swftools-0.9.2.exe>

Download and install the above program with default options.

**Step 8: Install SOX**

<http://sourceforge.net/projects/sox/files/sox/14.4.0/sox-14.4.0-win32.exe/download>

Download and install the above program with default options.

**Step 9: Install ffmpeg**

<http://ffmpeg.zeranoe.com/builds/win32/static/ffmpeg-latest-win32-static.7z>

Download and extract the above program using the 7-Zip program we installed earlier, this will leave you with a folder called “ffmpeg-latest-win32-static”, rename this folder to be ffmpeg and move it to “C:\program files\”

**Step 10: Install ImageMagick**

<http://www.imagemagick.org/download/binaries/ImageMagick-6.7.7-7-Q16-windows-dll.exe>

Download and install the above program with default options.

**Step 11: Install Apache Ant**

<http://mirror.lividpenguin.com/pub/apache//ant/binaries/apache-ant-1.8.4-bin.zip>

Download the above program and using WinRAR extract the contents to “c:\program files”

**Step 12: Install CollabNet SubVersionEdge 3.0.1**

<http://www.open.collab.net>

You have to register for a free account before you can download.

Once you have downloaded the file “CollabNetSubversionEdge-3.0.1\_setup.exe” install to “c:\program files\svn” keeping the rest of the options as default.

**Step 13: Install OpenOffice**

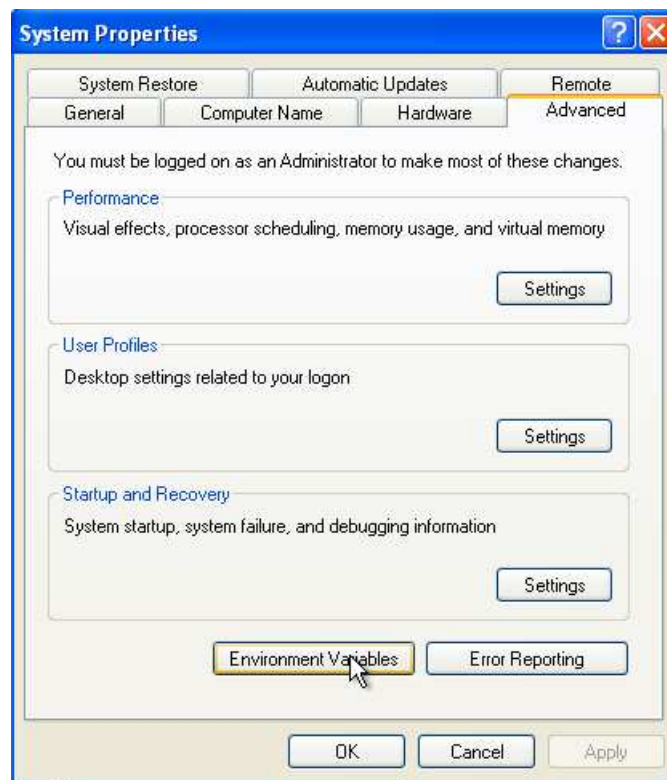
[http://downloads.sourceforge.net/project/openofficeorg.mirror/stable/3.4.0/Apache\\_OpenOffice\\_incubating\\_3.4.0\\_Win\\_x86\\_install\\_en-US.exe?r=http%3A%2F%2Fwww.openoffice.org%2Fdownload%2Findex.html&ts=1339587985&use\\_mirror=ignum](http://downloads.sourceforge.net/project/openofficeorg.mirror/stable/3.4.0/Apache_OpenOffice_incubating_3.4.0_Win_x86_install_en-US.exe?r=http%3A%2F%2Fwww.openoffice.org%2Fdownload%2Findex.html&ts=1339587985&use_mirror=ignum)

Install using default options.

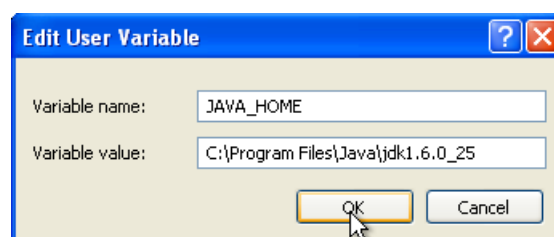
**Step 14: Add JAVA\_HOME and ANT\_HOME Variables**

Start > Control Panel > System

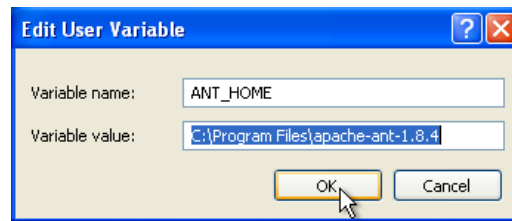
Choose Advanced TAB > Environment Variables



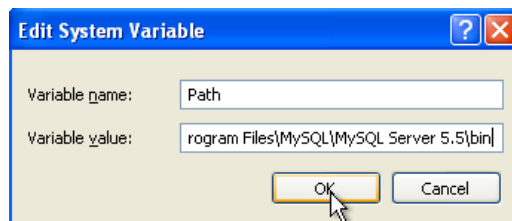
Now add a new User Variable called JAVA\_HOME with a value of “C:\program files\Java\jdk1.6.0\_25”



Now add a second user Variable called ANT\_HOME with a value of “c:\program files\apache-ant-1.8.4\”



And lastly we want to add some more paths to the Windows Path variable, this time scroll thru the System variables and double click on the variable called “Path”



Copy the Variable value to a text editor and add these additional lines seperated by a semi colon “;”.

### Step 15: Test Installs

Issue the following from the command line: (each of which should display their version numbers)

```
ffmpeg -version
pdf2swf --version
convert -version
sox --version
svn --version
ant -version
java -version
javac -version
```

### Step 16: Create DB for OpenMeetings

Open Command prompt and issue these commands

```
mysql -u root -p
```

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
C:\Documents and Settings\stephen.cottham>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 5.5.25 MySQL Community Server (GPL)

Copyright (c) 2000, 2011, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> _
```

Enter your mysql admin password to log in.

Now issue these commands to create the DB.

```
CREATE DATABASE openmeetings DEFAULT CHARACTER SET 'utf8';
GRANT ALL PRIVILEGES ON openmeetings.* TO 'openmeetings'@'localhost'
IDENTIFIED BY 'password' WITH GRANT OPTION;
quit
```

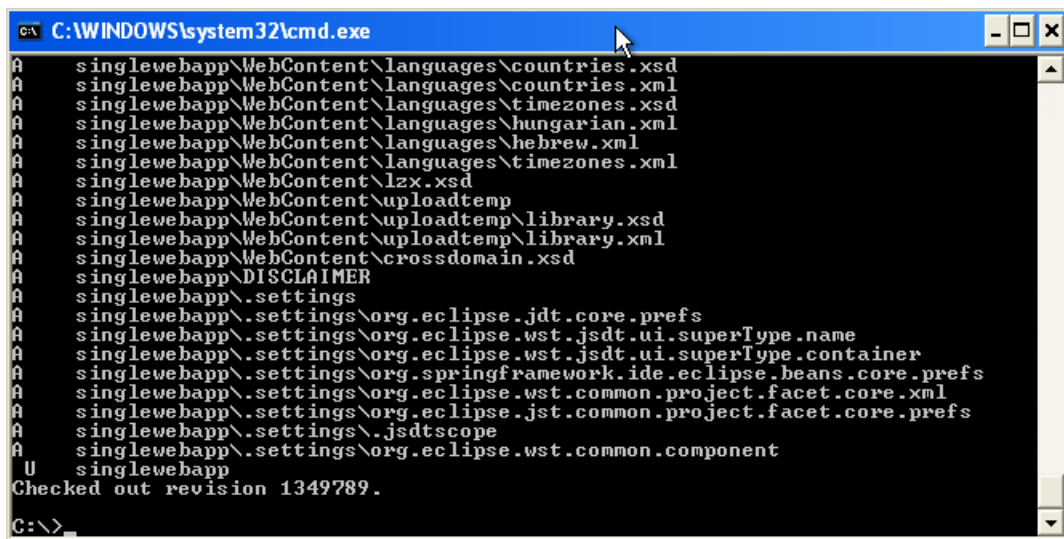
Step 17: Checkout OM2.x and compile

Open command prompt and issue these commands

```
cd c:\
mkdir Builds
cd Build
svn checkout https://svn.apache.org/repos/asf/incubator/openmeetings/trunk/singlewebapp/
```

(When asked to Accept certificate choose permanently)

The OM Source will now download to the current folder, once it's finished you should see the following:



```
C:\WINDOWS\system32\cmd.exe
A singlewebapp\WebContent\languages\countries.xsd
A singlewebapp\WebContent\languages\countries.xml
A singlewebapp\WebContent\languages\timezones.xsd
A singlewebapp\WebContent\languages\hungarian.xml
A singlewebapp\WebContent\languages\hebrew.xml
A singlewebapp\WebContent\languages\timezones.xml
A singlewebapp\WebContent\lzx.xsd
A singlewebapp\WebContent\uploadtemp
A singlewebapp\WebContent\uploadtemp\library.xsd
A singlewebapp\WebContent\uploadtemp\library.xml
A singlewebapp\WebContent\crossdomain.xsd
A singlewebapp\DISCLAIMER
A singlewebapp\settings
A singlewebapp\settings\org.eclipse.jdt.core.prefs
A singlewebapp\settings\org.eclipse.wst.jsdt.ui.superType.name
A singlewebapp\settings\org.eclipse.wst.jsdt.ui.superType.container
A singlewebapp\settings\org.springframework.ide.eclipse.beans.core.prefs
A singlewebapp\settings\org.eclipse.wst.common.project.facet.core.xml
A singlewebapp\settings\org.eclipse.jst.common.project.facet.core.prefs
A singlewebapp\settings\jsdt.scope
A singlewebapp\settings\org.eclipse.wst.common.component
U singlewebapp
Checked out revision 1349789.
C:\>
```

Now we can compile by issuing the following:

```
cd singlewebapp
ant -Ddb=mysql
```

This will now start to compile.

After a while you should see the following:

```

C:\WINDOWS\system32\cmd.exe
[sign.jar] Signing JAR: C:\Builds\singlewebapp\dist\red5\webapps\openmeetings\screensharing\spring-beans-3.1.1.RELEASE.jar to C:\Builds\singlewebapp\dist\red5\webapps\openmeetings\screensharing\spring-beans-3.1.1.RELEASE.jar as filetest
[sign.jar]
[sign.jar] Warning:
[sign.jar] The signer certificate will expire within six months.
[sign.jar] Signing JAR: C:\Builds\singlewebapp\dist\red5\webapps\openmeetings\screensharing\spring-context-3.1.1.RELEASE.jar to C:\Builds\singlewebapp\dist\red5\webapps\openmeetings\screensharing\spring-context-3.1.1.RELEASE.jar as filetest
[sign.jar]
[sign.jar] Warning:
[sign.jar] The signer certificate will expire within six months.
[sign.jar] Signing JAR: C:\Builds\singlewebapp\dist\red5\webapps\openmeetings\screensharing\spring-core-3.1.1.RELEASE.jar to C:\Builds\singlewebapp\dist\red5\webapps\openmeetings\screensharing\spring-core-3.1.1.RELEASE.jar as filetest
[sign.jar]
[sign.jar] Warning:
[sign.jar] The signer certificate will expire within six months.

-copy-libraries:
  [copy] Copying 10 files to C:\Builds\singlewebapp\dist\red5\lib
  [copy] Copying 90 files to C:\Builds\singlewebapp\dist\red5\webapps\openmeetings\WEB-INF\lib

dist:
BUILD SUCCESSFUL
Total time: 24 minutes 30 seconds
C:\Builds\singlewebapp>

```

Now we need to copy the compiled OM to the correct locations, so copy the red5 folder from “C:\Builds\singlewebapp\dist” and paste it at “c:”

### Step 18: Install JOD Converter

Download and extract JOD

<http://jodconverter.googlecode.com/files/jodconverter-core-3.0-beta-4-dist.zip>

Extract folder jodconverter-core-3.0-beta-4-dist to the following location  
“C:\red5\webapps\openmeetings”

### Step 19: Edit Config Files for mysql usage

Locate the following folder:

C:\red5\webapps\openmeetings\WEB-INF\classes\META-INF

Rename **persistence.xml** to **persistence.xml.old**

Copy **mysql\_persistence.xml** and rename as **persistence.xml**

Open persistence.xml in wordpad and change the Username and Password like the following:

```
, Username=openmeetings
, Password=password"/>
```

Save the file and we are now ready to start the service.

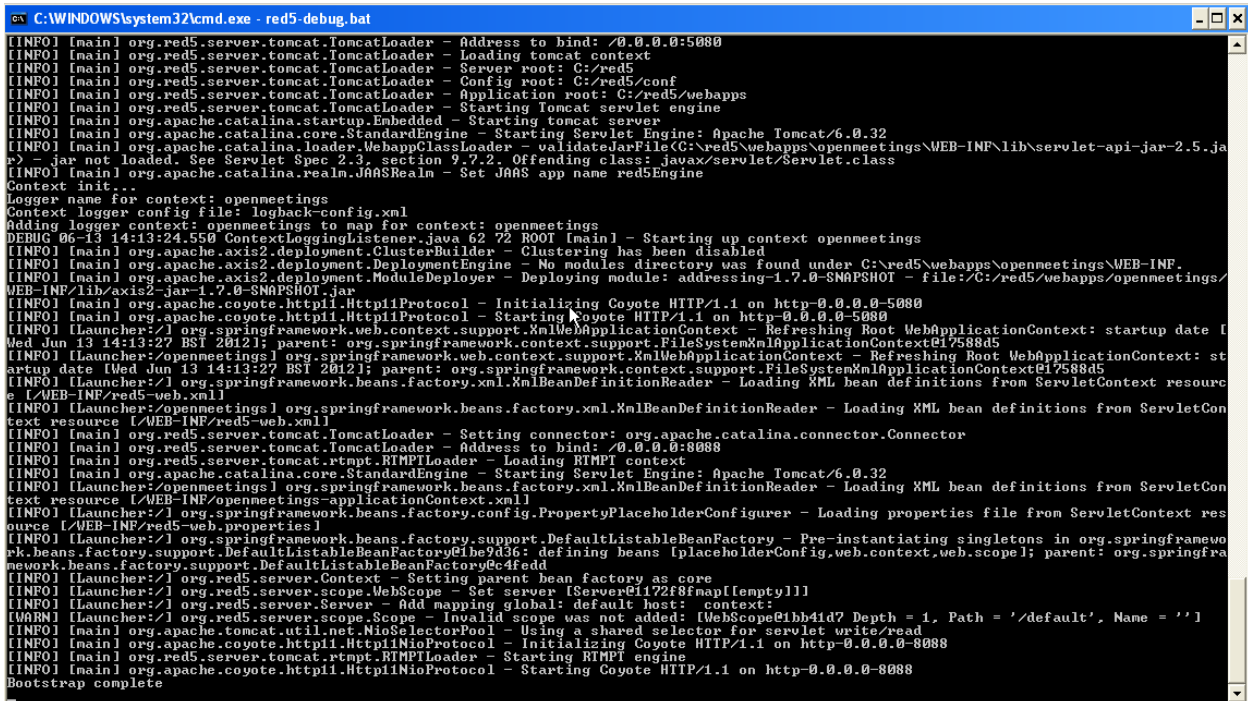
# OpenMeetings 2.X Installation on Windows XP\7 32\64bit

Stephen Cottham

13/06/2012

## Step 20: Running OM 2.X for the first time

Locate this folder C:\red5, and run the script called “red5-debug.bat”



```
C:\WINDOWS\system32\cmd.exe - red5-debug.bat
[INFO] [main] org.red5.server.tomcat.TomcatLoader - Address to bind: /0.0.0.0:5080
[INFO] [main] org.red5.server.tomcat.TomcatLoader - Loading tomcat context
[INFO] [main] org.red5.server.tomcat.TomcatLoader - Server root: C:/red5
[INFO] [main] org.red5.server.tomcat.TomcatLoader - Config root: C:/red5/conf
[INFO] [main] org.red5.server.tomcat.TomcatLoader - Application root: C:/red5/webapps
[INFO] [main] org.red5.server.tomcat.TomcatLoader - Starting Tomcat servlet engine
[INFO] [main] org.apache.catalina.startup.Embedded - Starting tomcat server
[INFO] [main] org.apache.catalina.core.StandardEngine - Starting Servlet Engine: Apache Tomcat/6.0.32
[INFO] [main] org.apache.catalina.loader.WebappClassLoader - validateJarFile(C:\red5\webapps\openmeetings\WEB-INF\lib\servlet-api-jar-2.5.jar) - jar not loaded. See Servlet Spec 2.3, section 9.7.2. Offending class: javax/servlet/Servlet.class
[INFO] [main] org.apache.catalina.realm.JAASRealm - Set JAAS app name red5Engine
Context init...
logger name for context: openmeetings
Context logger config file: logback-config.xml
Adding logger context: openmeetings to map for context: openmeetings
DEBUG 06-13 14:13:24.550 ContextLoggingListener.java:62:72:ROOT [main] - Starting up context openmeetings
[INFO] [main] org.apache.axis2.deployment.ClusterBuilder - Clustering has been disabled
[INFO] [main] org.apache.axis2.deployment.DeploymentEngine - No modules directory was found under C:\red5\webapps\openmeetings\WEB-INF.
[INFO] [main] org.apache.axis2.deployment.ModuleDeployer - Deploying module: addressing-1.7.0-SNAPSHOT - file:C:/red5/webapps/openmeetings/WEB-INF/lib/axis2-jar-1.7.0-SNAPSHOT.jar
[INFO] [main] org.apache.coyote.http11.Http11Protocol - Initializing Coyote HTTP/1.1 on http-0.0.0.0-5080
[INFO] [main] org.apache.coyote.http11.Http11Protocol - Starting Coyote HTTP/1.1 on http-0.0.0.0-5080
[INFO] [Launcher:/] org.springframework.web.context.support.XmlWebApplicationContext - Refreshing Root WebApplicationContext: startup date [Wed Jun 13 14:13:27 BST 2012]; parent: org.springframework.context.support.FileSystemXmlApplicationContext@17588d5
[INFO] [Launcher:/openmeetings] org.springframework.web.context.support.XmlWebApplicationContext - Refreshing Root WebApplicationContext: startup date [Wed Jun 13 14:13:27 BST 2012]; parent: org.springframework.context.support.FileSystemXmlApplicationContext@17588d5
[INFO] [Launcher:/] org.springframework.beans.factory.xml.XmlBeanDefinitionReader - Loading XML bean definitions from ServletContext resource [/WEB-INF/red5-web.xml]
[INFO] [Launcher:/openmeetings] org.springframework.beans.factory.xml.XmlBeanDefinitionReader - Loading XML bean definitions from ServletContext resource [/WEB-INF/red5-web.xml]
[INFO] [main] org.red5.server.tomcat.TomcatLoader - Setting connector: org.apache.catalina.connector.Connector
[INFO] [main] org.red5.server.tomcat.TomcatLoader - Address to bind: /0.0.0.0:8088
[INFO] [main] org.red5.server.tomcat.rtmpt.RTMPTLoader - Loading RTMPT context
[INFO] [main] org.apache.catalina.core.StandardEngine - Starting Servlet Engine: Apache Tomcat/6.0.32
[INFO] [Launcher:/openmeetings] org.springframework.beans.factory.xml.XmlBeanDefinitionReader - Loading XML bean definitions from ServletContext resource [/WEB-INF/openmeetings-applicationContext.xml]
[INFO] [Launcher:/] org.springframework.beans.factory.config.PropertyPlaceholderConfigurer - Loading properties file from ServletContext resource [/WEB-INF/red5-web.properties]
[INFO] [Launcher:/] org.springframework.beans.factory.support.DefaultListableBeanFactory@11e9d36: defining beans [placeholderConfig,web.context.web.scope]; parent: org.springframework.beans.factory.support.DefaultListableBeanFactory@cc4fedd
[INFO] [Launcher:/] org.red5.server.Context - Setting parent bean factory as core
[INFO] [Launcher:/] org.red5.server.scope.WebScope - Set server [Server@1172f8fmap[[]]]
[INFO] [Launcher:/] org.red5.server.Server - Add mapping global: default host: context:
[WARN] [Launcher:/] org.red5.server.scope.Scope - Invalid scope was not added: [WebScope@11bb41d? Depth = 1, Path = '/default', Name = '' ]
[INFO] [main] org.apache.tomcat.util.net.NioSelectorPool - Using a shared selector for servlet write/read
[INFO] [main] org.apache.coyote.http11.Http11NioProtocol - Initializing Coyote HTTP/1.1 on http-0.0.0.0-8088
[INFO] [main] org.red5.server.tomcat.rtmpt.RTMPTLoader - Starting RTMPT engine
[INFO] [main] org.apache.coyote.http11.Http11NioProtocol - Starting Coyote HTTP/1.1 on http-0.0.0.0-8088
Bootstrap complete
```

You will see something similar to the above debug window; we are running it with debug so we can check everything is running as normal, you can start the service with red5.bat after we have initially set this up.



# OpenMeetings 2.X Installation on Windows XP/7 32/64bit

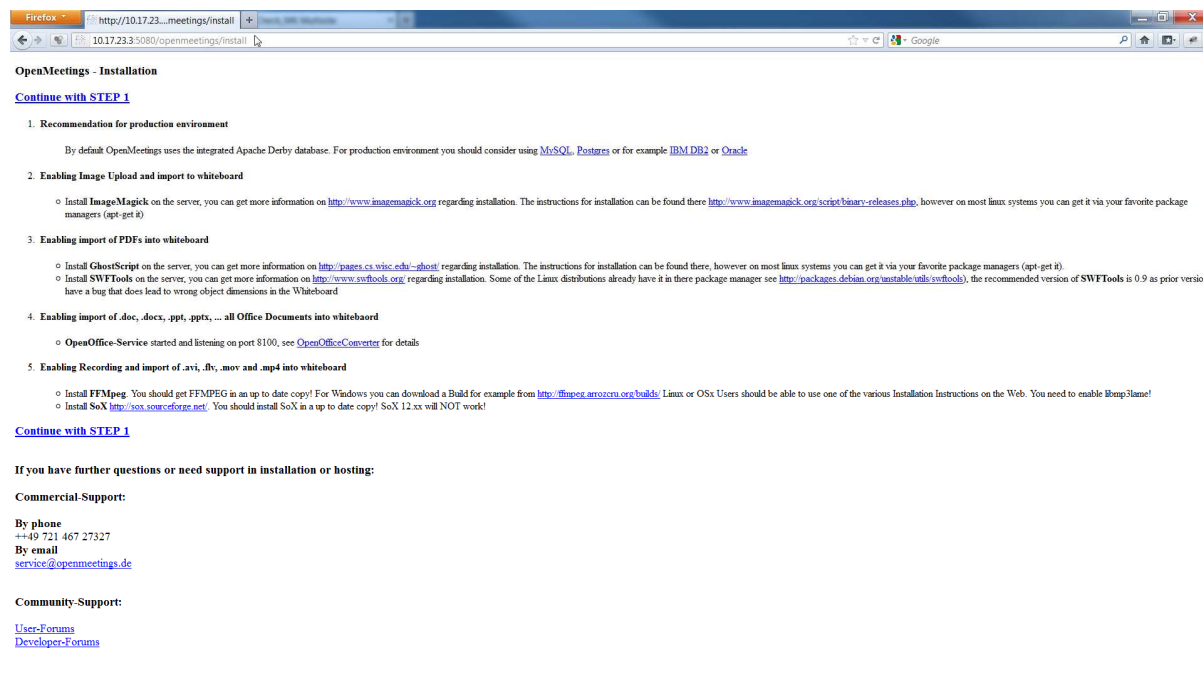
Stephen Cottham

13/06/2012

Now open the browser and go to the following link.

<http://<yourIP>:5080/openmeetings/install>

If all went well you should now see this page:



Choose the “Continue with STEP 1” link

## OpenMeetings - Installation

<b>Userdata</b>	
Username	<input type="text"/>
Userpass	<input type="password"/>
E-Mail	<input type="text"/>
User Time Zone	New Zealand (Etc/GMT+12 (New Zealand))
<b>Organisation (Domains)</b>	
Name	<input type="text"/>
<b>Configuration</b>	
Allow self-registering (allow_frontend_register)	Yes
Send Email to new registered Users (sendEmailAtRegister)	Yes
New Users need to verify their E-Mail (sendEmailWithVerificationCode)	Yes
Default Rooms of all types will be created	Yes
Mail-Referer (system_email_addr)	noreply@localhost
SMTP-Server (smtp_server)	localhost
SMTP-Server Port (default Smtip-Server Port is 25) (smtp_port)	25
SMTP-Username (email_userpass)	<input type="text"/>
SMTP-Userpass (email_userpass)	<input type="password"/>
Enable TLS in Mail Server Auth	No
Set inviter's email address as ReplyTo in email invitations (inviter.email.as.replyto)	Yes
Default Language	english

The only section we need to fill out at this stage is the following:

Username: **omadmin**  
Userpass: **ompassword**  
Email: **something@something.com**  
TimeZone: **United Kingdom**  
Domain Name: **somedomain**

Now click on INSTALL at the bottom of the page, this will then create all the needed tables etc.. - it can take a little while but be patient.

## OpenMeetings - Installation Complete!

### [Enter the Application](#)

If your Red5-Server runs on a different Port or on a different domain  
[alter the config values of the client](#)

### Mailing list

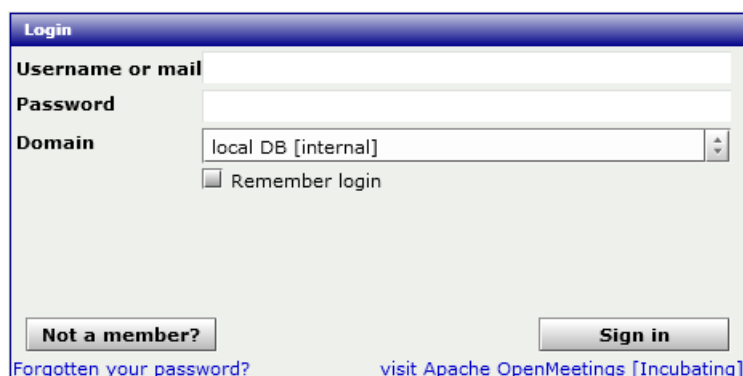
<http://incubator.apache.org/openmeetings/mail-lists.html>

There are some companies that also offer commercial support for Apache OpenMeetings:

<http://incubator.apache.org/openmeetings/commercial-support.html>

Once that has completed you can now enter the application by clicking on the “**Enter the Application**” link

You should see the following logon screen:



Username or mail

Password

Domain: local DB [internal]

Remember login

Not a member? Sign in

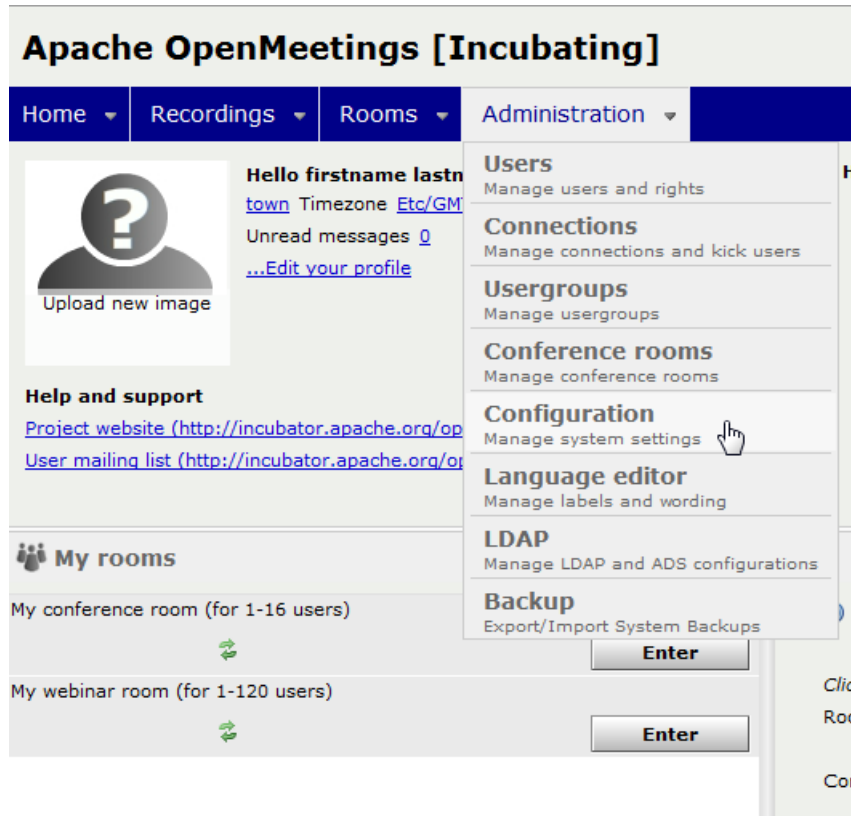
[Forgotten your password?](#) [visit Apache OpenMeetings \[Incubating\]](#)

Enter these details to sign in.

Username: **omadmin**  
Userpass: **ompassword**

**Step 11: Add relevant paths to the configuration**

Once logged in go to **Administration > Configuration**



You will see on the left hand pane a list of keys and values, the ones we are interested in are

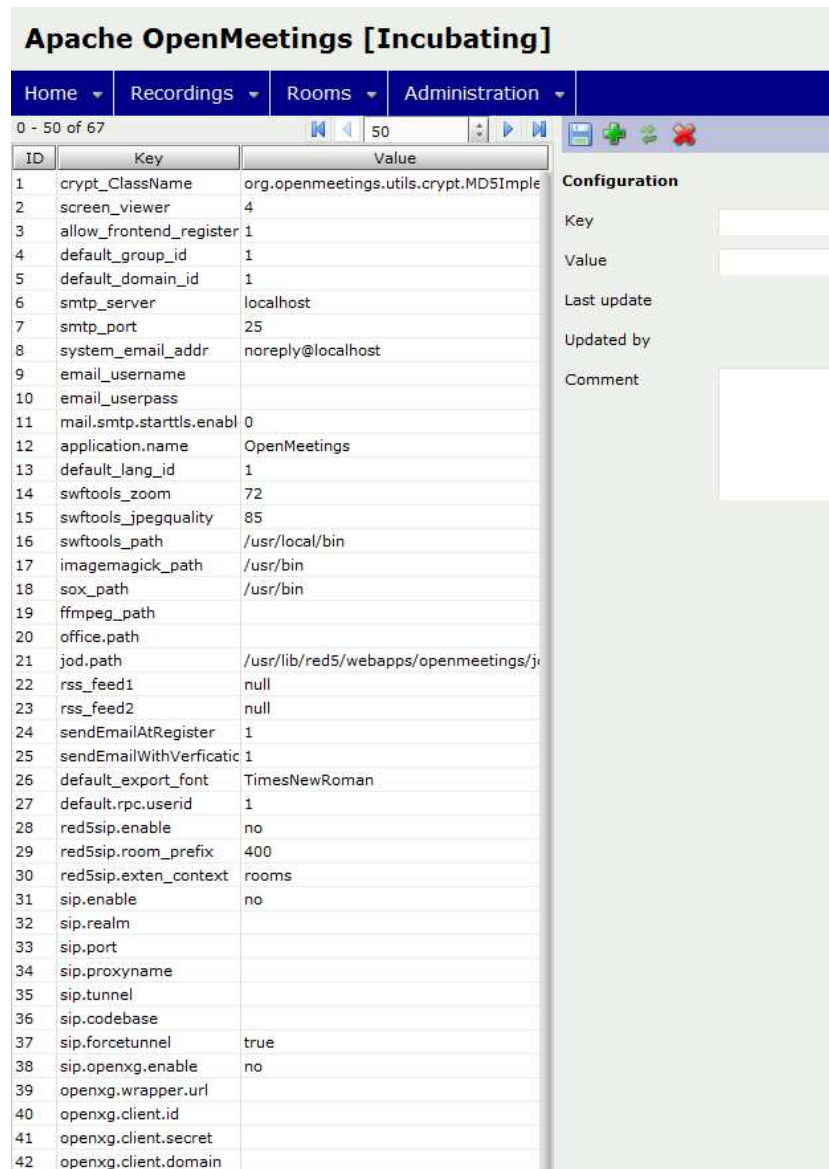
SWFTools Path	<b>C:\Program Files\SWFTools</b>
ImageMagick Path	<b>C:\Program Files\ImageMagick-6.7.7-Q8</b>
FFMPEG Path	<b>C:\Program Files\ffmpeg\FFMPEG\bin</b>
SoX Path	<b>C:\Program Files\sox-14-4-0</b>
JOD Path	<b>C:\red5\webapps\openmeetings\jodconverter-core-3.0-beta-4\lib</b>

## OpenMeetings 2.X Installation on Windows XP\7 32\64bit

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13/06/2012

Click on the left hand pane option and then enter the value as above, click on the save button to apply the changes; once you have done each key you should see the following:



The screenshot shows the Apache OpenMeetings Administration interface. The title bar reads "Apache OpenMeetings [Incubating]". The navigation menu includes "Home", "Recordings", "Rooms", and "Administration". The main content area displays a table of configuration keys and values. The table has three columns: "ID", "Key", and "Value". The values are as follows:

ID	Key	Value
1	crypt_ClassName	org.openmeetings.util.crypt.MD5Imple
2	screen_viewer	4
3	allow_frontend_register	1
4	default_group_id	1
5	default_domain_id	1
6	smtp_server	localhost
7	smtp_port	25
8	system_email_addr	noreply@localhost
9	email_username	
10	email_userpass	
11	mail.smtp.starttls.enabl	0
12	application.name	OpenMeetings
13	default_lang_id	1
14	swftools_zoom	72
15	swftools_jpegquality	85
16	swftools_path	/usr/local/bin
17	imagemagick_path	/usr/bin
18	sox_path	/usr/bin
19	ffmpeg_path	
20	office.path	
21	jod.path	/usr/lib/red5/webapps/openmeetings/j
22	rss_feed1	null
23	rss_feed2	null
24	sendEmailAtRegister	1
25	sendEmailWithVerificatic	1
26	default_export_font	TimesNewRoman
27	default.rpc.userid	1
28	red5sip.enable	no
29	red5sip.room_prefix	400
30	red5sip.exten_context	rooms
31	sip.enable	no
32	sip.realm	
33	sip.port	
34	sip.proxynome	
35	sip.tunnel	
36	sip.codebase	
37	sip.forcetunnel	true
38	sip.openxg.enable	no
39	openxg.wrapper.url	
40	openxg.client.id	
41	openxg.client.secret	
42	openxg.client.domain	

On the right side of the interface, there is a "Configuration" panel with fields for "Key", "Value", "Last update", "Updated by", and "Comment".

**JOD will find open office in this case so we do not need to set the path.**

**System is now ready to be tailored to your needs.**