

# XIDE Deployment Instructions

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## 1 Introduction

### 1.1 Purpose of the document

This document contains installation instructions for XIDE application. Using this document it is possible to run XIDE on the server. This document covers getting and configuration of deployment archive, server configuration and deployment of the XIDE.

This document is targeted for users, who need to install ready-made XIDE deployment archive on the server.

For information about installation of XIDE project locally please see XIDE Installation Instructions.

### 1.2 Version information

This document was last updated on 30.06.2010 and is corresponds to XIDE deployment archive published on XIDE open source project page <http://code.google.com/p/xformsdb-ide/> on 31.05.2010.

Before starting deployment process, please make sure there is no newer version of this document or deployment archive on the project page.

### 1.3 Configuration details

#### 1.3.1 Obligatory configurations

This installation manual is written and tested with the following configurations. They are obligatory to use.

Applications need to be installed and run:

1. Apache Tomcat 6.x.

There should be an ability to create a directory, where Tomcat has a right to read and write. Check this possibility with system administrator of your server.

Let us refer to the path where Apache Tomcat is installed as TOMCAT\_HOME and to the URL it runs as TOMCAT\_URL

You will also need a administrator account for the Apache Tomcat in order to be able to deploy the application.

2. eXist-db Open Source Native XML Database 1.4 or later

In order to run XIDE, you need Exist-db database server running locally or remotely. There should be a user, who has a right to create collections and have read/write access to them. Let us refer

- to URL where Exist-db server is running (use localhost:correct\_port if it runs locally) as XIDE\_EXIST\_URL
- to the username and password of the user who has right to view and modify the schema as XIDE\_EXIST\_USERNAME and XIDE\_EXIST\_PSWD

### 3. MySQL database

In order to run XIDE, you need MySQL database server running either locally or remotely. There should be a user, who has a right to create schemas and have read/write access to them. Let us refer

- to URL where MySQL server is running (use localhost:correct\_port if it runs locally) as XIDE\_SQL\_URL
- to the username and password of the user who has right to view and modify the schema as XIDE\_SQL\_USERNAME and XIDE\_SQL\_PSWD

### 4. Java JRE 1.6

Libraries need to be downloaded:

- xformsdb.jar file. The XFormsDB project can be found in <http://code.google.com/p/xformsdb/>

## 1.3.2 Prerequisites

- All requirements from section 1.3.1 should be fulfilled
- CATALINA\_HOME environment variable should be set. It should point to the root of the Apache Tomcat folder (e.g. /Applications/apache-tomcat/). Variable should be set globally (for the current user of the system) if you are going to run as a .war file under your local Tomcat. Otherwise it is enough to set the variable in run configurations in the Eclipse.
- xformsdb.jar should be placed in Tomcat's CATALINA\_HOME/lib folder

## 2 XIDE deployment instructions

In this section you can find step-by-step instructions how to deploy XIDE on the production server.

### Step 1: Organize XIDE files

XIDE files contain folder structure for XIDE working files (e.g. components and application's sources) and some XIDE internal files. You need to have XIDE files folder structure stored somewhere on the server you are going to run the XIDE

To copy the file structure, please follow the steps:

1. Download XIDE file structure archive from XIDE project page (<http://xformsdb-ide.googlecode.com/files/xidefiles.zip>)
2. Unpack the archive to the place, where your Apache Tomcat has access to (see section 1.3).  
Let us refer to the path where the root folder of the unpacked structure is saved as XIDE\_FILES

### Step 2: Get XIDE deployment archive

There are two options how to get XIDE deployment archive. You can either download ready-made archive from XIDE project page or make it yourself from the source code.

Second option is described in XIDE Development Environment Installation Instructions document, since it requires development environment to be installed. If you are using this option, you can skip several steps and continue with Step 7: .

In this document first option, using of ready-made deployment archive (xide.war file) from XIDE project page is used.

1. Download xide.war file from XIDE project page (<http://xformsdb-ide.googlecode.com/files/xide.war>)
2. Change the file extension to .zip and unpack it in order to change environment specific settings. Change Let us refer to the path where the archive is unpacked as WAR\_FILE\_PATH

### Step 3: Set up MySQL database and connection

MySQL database should have a schema with required tables. If you don't have tables yet, you can create them by running in order SQL scripts from MySQL database setup pack from XIDE project

page (<http://xformsdb-ide.googlecode.com/files/DB%20Initialization.zip>). There are instructions in the package.

Let us refer to the schema where XIDE tables are stored as XIDE\_SQL\_SCHEMA.

After the database is configured, you need to set up connection to the database and username/password.

3. Open context.xml file from /META-INF/
4. Enter the following settings

```
<Resource name="jdbc/xidedb" auth="Container" type="javax.sql.DataSource"
driverClassName="com.mysql.jdbc.Driver"
maxActive="100" maxIdle="30" maxWait="10000" username="XIDE_SQL_USERNAME"
password="XIDE_SQL_PSWD" validationQuery="select 1"
url="jdbc:mysql://XIDE_SQL_URL/
XIDE_SQL_SCHEMA?zeroDateTimeBehavior=convertToNull&autoReconnect=true" />
```

#### Step 4: Set up Exist-db database and connection

Exist-db database should have the following collections (create, if not):

- /db/xide/
- /db/xide/published
- /db/xide/temp

After the database is configured, you need to set up connection to the database and username/password.

Update constant.properties file from /WEB\_INF/ to match the following:

<i>xide.exist.user</i>	=	<i>XIDE_EXIST_USERNAME</i>
<i>xide.exist.password</i>	=	<i>XIDE_EXIST_PSWD</i>
<i>xide.exist.dbPublished</i>	=	<i>/db/xide/published/</i>
<i>xide.exist.dbTemp</i>	=	<i>/db/xide/temp/</i>
<i>xide.exist.uri</i>	=	<i>xmldb:exist://XIDE_EXIST_URL/exist/xmlrpc</i>

#### Step 5: Update other settings according to your local configurations

Update constant.properties file from /war/WEB\_INF/ to match the following:

<i>xide.tomcat.home</i>	=	<i>TOMCAT_HOME</i>
<i>xide.serverUrl</i>	=	<i>TOMCAT_URL</i>
<i>xide.fileSystemPath</i>	=	<i>XIDE_FILES</i>

#### Step 6: Compress the archive

After all settings are made, archive the files under WAR\_FILE\_PATH. Note root folder should not be included in archive. Change archive extension to .war

#### Step 7: Deploy the .war

1. Using your browser, access TOMCAT\_URL page
2. Click “Tomcat Manager” link and log in with your administrator user
3. Deploy the .war file created in previous step using deploy button on the bottom of the page.
4. Wait for couple of minutes and check XIDE on TOMCAT\_URL/xide

You can change deployment URL from “/xide” to some other value in web.xml file.

If you do have some problems with deploying the project, please contact [samochadina@gmail.com](mailto:samochadina@gmail.com)