**Setting up a DB2 database**

The Rational® solution for Collaborative Lifecycle Management products support IBM® DB2® Enterprise Server Edition. For platforms that do not support Enterprise Server Edition, you can use IBM DB2 Workgroup Server Edition. You can obtain a trial download of one these DB2 editions or the free DB2 Express Server edition for deployments of 50 developers or fewer from ibm.com®.

**Before you begin**

**Note:**

These instructions do not apply to the parts that are being installed or configured on the IBM i or z/OS® operating systems. On IBM i, the DB2 for i database is configured automatically. For z/OS, see [Setting up a DB2 database on a z/OS system](http://www.ibm.com/support/knowledgecenter/en/SSYMRC_6.0.2/com.ibm.jazz.install.doc/topics/t_rtcz_server_installation_db2zos.html?view=kc).

This procedure requires that the following prerequisites are met. Consult your DB2 documentation or a DB2 database administrator (DBA) for help.

* The databases are not partitioned. Partitioned databases are not supported in this release and must not be used.
* You have the correct user password. In the UNIX systems, get the password for the DB2 instance owner, which is typically the db2inst1 user.
* You have reviewed the DB2 documentation to verify that your system meets the requirements and is configured correctly.
* A supported version of DB2 is installed and running on a computer to be used as the database server. This computer can be a different one from the one that the Jazz™ Team Server runs on. For a list of supported versions of DB2, see [Hardware and software requirements](http://www.ibm.com/support/knowledgecenter/en/SSYMRC_6.0.2/com.ibm.jazz.install.doc/topics/c_req_hardsoft.html?view=kc).
* The user in the teamserver.properties file has system administrator authority over the database. For information about preparing a DB2 database with only DBADM authority, see this [wiki page](https://jazz.net/wiki/bin/view/Main/ReducedDB2Privileges).

[Learn more about DB2 commands](javascript:void(0))

**Important:** If you install Jazz Team Server with the Change and Configuration Management, Quality Management, Jazz Reporting Service (two databases: one for Lifecycle Query Engine and one for Data Collection Component), Link Index Provider, Global Configuration, Rational Engineering Lifecycle Manager, or Requirements Management applications on either the same computer or distributed platforms, a separate database and a DB user who is associated with that database must be created for each application. In addition, you must create a separate database for data warehouse. This topic also includes the necessary commands to create a database for CLM Server Monitoring.

Run the following commands in the DB2 Command Window. You can open the Command window from the application **Start** menu under the DB2 **Command Line Tools** menu. To connect to a remote server, you can use Telnet or SSH. On Unix systems, ensure that you are connected as the db2inst1 user by running the su db2inst1 command.

**Procedure**

1. Open a DB2 command window and create the database.

For **Jazz Team Server**, create a database called JTS with 16K pages and the UTF-8 code set.

db2 create database JTS using codeset UTF-8 territory en PAGESIZE 16384

For the **Change and Configuration Management** application, create a database called CCM with 16K pages and the UTF-8 code set.

db2 create database CCM using codeset UTF-8 territory en PAGESIZE 16384

For the **Quality Management** application, create a database called QM with 16K pages and the UTF-8 code set.

db2 create database QM using codeset UTF-8 territory en PAGESIZE 16384

For the **Requirements Management** application, create a database called RM with 16K pages and the UTF-8 code set.

db2 create database RM using codeset UTF-8 territory en PAGESIZE 16384

For the **Lifecycle Query Engine** application, create a database called LQE with 32K pages and the UTF-8 code set.

**Note:** The Lifecycle Query Engine database requires 32K pages.

db2 create database LQE using codeset UTF-8 territory en PAGESIZE 32768

For the **Link Index Provider** application, create a database called LDX with 32K pages and the UTF-8 code set.

**Note:** The Link Index Provider database requires 32K pages.

db2 create database LDX using codeset UTF-8 territory en PAGESIZE 32768

For the **Data Collection Component** application, create a database called DCC with 16K pages and the UTF-8 code set.

db2 create database DCC using codeset UTF-8 territory en PAGESIZE 16384

For the **Global Configuration Management** application, create a database called GC with 16K pages and the UTF-8 code set.

db2 create database GC using codeset UTF-8 territory en PAGESIZE 16384

For the **Rational Engineering Lifecycle Manager** application, create a database called RELM with 16K pages and the UTF-8 code set.

db2 create database RELM using codeset UTF-8 territory en PAGESIZE 16384

For the **Design Management** application, create a database called DM with 16K pages and the UTF-8 code set.

db2 create database DM using codeset UTF-8 territory en PAGESIZE 16384

For the **Data Warehouse**, create a database called DW with 16K pages and the UTF-8 code set.

db2 create database DW using codeset UTF-8 territory en PAGESIZE 16384

For more information about DB2 data warehouse setup, [click here](https://jazz.net/wiki/bin/view/Main/MoreControlOverTheDB2DataWarehouseSetup).

For the **CLM Server Monitoring**, create a database called CSM with 16K pages and the UTF-8 code set.

db2 create database CSM using codeset UTF-8 territory en PAGESIZE 16384

**Note:** If you are creating the database with a user other than the user specified in the teamserver.properties file, you must grant DBADM authority to that user:

db2 connect to *database name*

db2 grant dbadm on database to user *user name*

db2 disconnect *database name*

1. To configure your databases connections and create database tables, complete one of these steps:
   1. If you are using the default Liberty or Tomcat, start the server and continue with [Running the setup by using Custom setup in the setup wizard](http://www.ibm.com/support/knowledgecenter/en/SSYMRC_6.0.2/com.ibm.jazz.install.doc/topics/t_s_server_installation_setup_wizard.html?view=kc).
   2. If you are deploying IBM WebSphere Application Server, see [Deploying and starting WebSphere Application Server](http://www.ibm.com/support/knowledgecenter/en/SSYMRC_6.0.2/com.ibm.jazz.install.doc/topics/c_deploying_was.html?view=kc), then continue with [Running the setup by using Custom setup in the setup wizard](http://www.ibm.com/support/knowledgecenter/en/SSYMRC_6.0.2/com.ibm.jazz.install.doc/topics/t_s_server_installation_setup_wizard.html?view=kc).
   3. If you prefer to manually modify the teamserver.properties file for database connection and run the repotools commands to create database tables, see [Manually configuring a DB2 database](http://www.ibm.com/support/knowledgecenter/en/SSYMRC_6.0.2/com.ibm.jazz.install.doc/topics/t_manually_update_config_db2.html?view=kc)
   4. If you are upgrading from a previous version, continue to run the appropriate upgrade scripts which will migrate over your existing database connections.

**Note:** If you create all CLM databases on the same database server, verify that the **Max number of concurrently active databases** is set to a number greater than the number of databases you created. If this value is lower than the number of active databases, you will get the SQL Code 1041 error.

* 1. To open the database manager configuration, from the DB2 command window enter the following command:

db2 get dbm cfg

* 1. Look for the **Max number of concurrently active databases** line. If this number is lower than the installed databases, increase the number by entering the following command:

db2 update dbm cfg using numdb 11

* 1. Stop and start the database manager for these changes to take effect by entering these commands:
  2. db2stop

db2start

* [**Manually configuring a DB2 database**](http://www.ibm.com/support/knowledgecenter/en/SSYMRC_6.0.2/com.ibm.jazz.install.doc/topics/t_manually_update_config_db2.html?view=kc)  
  Running the setup wizard is the recommended method to configure the database connections and create the database tables. If you prefer to do this procedure manually, use this topic to edit the teamserver.properties file to set up an IBM DB2 database connection and run the -createTables command to create database tables.