



# Installing Rational Team Concert for System z on Linux for System z

*Version 1.0.1*



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# Installing Rational Team Concert for System z on Linux for System z

This information provides step-by-step instructions for installing and configuring Rational® Team Concert for System z® on Linux® for System z.

These instructions are intended for system administrators responsible for installing and maintaining the Jazz™ Team Server for System z on Linux for System z. Instructions for installing the Rational Team Concert client on your workstation are also included. To understand the instructions, you must be familiar with Windows® and Linux for System z operating systems.

Rational Team Concert for System z builds on the core Rational Team Concert product by providing a Jazz Team Server that runs on Linux for System z.

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## Installation prerequisites

Before you can install Rational Team Concert for System z on Linux for System z, you must ensure that the prerequisite applications are installed and operational.

The installation package includes:

- Java™ Runtime Environment (JRE) for Linux for System z (IBM® J9 VM 1.5.0 64 bits and IBM J9 VM 1.5.0 32 bits).
- Apache Tomcat Version 5.5 Web application server containing the Jazz Team Server Web application.
- A Derby database and all necessary database libraries.

**Important:** Jazz Team Server with a Derby database supports up to 10 users. To support more than 10 users, use DB2®.

- The Jazz Build System Toolkit.

Make sure you have the following prerequisite applications installed and operational before you proceed with the installation on Linux for System z:

- Operating system: Red Hat Enterprise Linux, Version 5 or SUSE Linux Enterprise Server, Version 10.
- Application Server: Apache Tomcat Server V5.5 (included) or **optional:** WebSphere® Application Server V6.1.0.10 or later with IBM Java SDK 1.5 SR5 or later Cumulative Fix applied.
- **Optional:** DB2 V9.1.

**Note:** The Derby database included in the default configuration requires no installation, but this database has a 10 user limit.

**Note:** WebSphere Application Server and DB2 are obtained separately. It is assumed that basic installation configuration steps for those products have been followed.

For more information, see the IBM DB2 Database for Linux, Unix, and Windows Information Center at <http://publib.boulder.ibm.com/infocenter/db2luw/v9/index.jsp> and the WebSphere Application Server, Version 6.1 Information Center at <http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/index.jsp>.

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## Overview of installing Jazz Team Server for System z on Linux for System z

You can install the Jazz Team Server for z using a .zip file downloaded from a CD or from an electronic image from IBM Passport Advantage®.

Configure your database and your server according to your installation environment:

- Apache Tomcat Server with the default Derby database.
- Apache Tomcat Server with a DB2 database.
- WebSphere Application Server with a DB2 database.

These instructions provide an overview of the steps required for installing the Jazz Team Server for System z. For detailed instructions, refer to the appropriate related topic.

1. Ensure you meet all installation and configuration prerequisites.
2. Download and copy the Standard edition of the Jazz Team Server for System z .zip file.
3. If you plan to use a DB2 database, set up the database to work with Jazz Team Server for System z and create the Jazz Team Server database table.

**Note:** No additional database configuration is required if you use the default Derby database.

4. Set up the application server environment if you plan to use WebSphere Application Server. It is assumed that you have a secure WebSphere Application Server.

**Notes:** No additional application server configuration is required if you use Apache Tomcat server.

- a. Install the Jazz Team Server for System z Web archive file (jazz.war) on your WebSphere Application Server.
  - b. Map users to Jazz Team Server for System z roles.
5. Verify and complete your installation.
  6. Install the Rational Team Concert client and the System z documentation extension.

### Related information

Rational Team Concert for System z on Passport Advantage

## Preparing to install the Jazz Team Server for System z

Before installing the Jazz Team Server for System z, you must complete special conditions for a successful setup on Linux for System z.

- If Security-Enhanced Linux (SELinux) is enabled, you must disable it or change the security context of the Java Runtime Environment (JRE) to allow text relocation in order to install and run Rational Team Concert.

**Note:** For more details, see “Configuring Security-Enhanced Linux” on page 14.

- Increase the maximum number of files that the Apache Tomcat user can handle to 5,000. You can do this by adding the following lines to `/etc/security/limits.conf`:

```
tomcat_user hard nofile 5000
tomcat_user soft nofile 5000
```

**Note:** tomcat\_user should be substituted with the name of the user that launches the Tomcat server.

- The reports component requires that 32-bit X11 libraries be installed on the server. The required packages are **libXp**, **libXinerama**, and **mesa-libGL**.
- If you are installing DB2 on Linux, set the **shmmax** to 1GB.
- Ensure that the DB2 instance user and the user ID that runs the WebSphere Application Server have write access to the **/tmp** directory.

## Installing Jazz Team Server for System z on Linux for System z

After obtaining the installation files, extract the contents to your file system on IBM z.

To purchase Rational Team Concert for System z, go to Rational Team Concert for System z on Passport Advantage at <http://www.ibm.com/support/docview.wss?rs=727&uid=swg24020827>, where you can download an installable image or order a CD.

1. From a CD or electronic image, download the Standard edition of the RTCz-TeamServer-1.0.1-Linux-on-Systemz.zip file to your computer.
2. Copy the .zip file to your file system on IBM z and use the unzip utility to extract the contents of the file.

### Notes:

- The directory to which you extract the files is referred to as **JazzInstallDir**.
- The Jazz Team Server installation path names must not contain spaces.
- A Derby database is included in the default configuration and requires no installation; however, the Derby database has a 10 user limit.

## Setting up the database

After your Jazz Team Server for System z is installed, you must configure the database.

**Fast path:** If you are using the included Derby database, no additional database setup is required. Proceed to “Starting the server” on page 6.

The overview steps for setting up a DB2 database are:

1. Create a database.
2. Configure the properties files.
3. Create the database tables.

If you are using DB2, proceed to “Setting up a DB2 database.”

### Setting up a DB2 database

Set up a DB2 database to work with the Jazz Team Server for System z.

This procedure assumes the following prerequisites have been met. Consult your DB2 documentation or a DB2 database administrator for help.

- Review the DB2 documentation to verify that your system meets the requirements and is configured correctly.

- DB2 is installed and running on a machine to be used as the database server. This machine can be a different one from that on which the Jazz Team Server runs.
- You reviewed Special DB2 instructions at [http://publib.boulder.ibm.com/infocenter/rtczhelp/v1r0m0/topic/com.ibm.team.install.doc/topics/c\\_plan\\_database\\_db2.html](http://publib.boulder.ibm.com/infocenter/rtczhelp/v1r0m0/topic/com.ibm.team.install.doc/topics/c_plan_database_db2.html).
- The user performing these instructions has system administrator authority on the DB2 database.

**Tip:** To get system administrative authority on the DB2 database, use commands similar to the following:

```
sudo db2fenc1
bash
```

To set up a DB2 database:

1. **Optional:** You can create a new DB2 instance to use with the Jazz Team Server, or just create a database in an existing DB2 instance. To create a DB2 instance for the Jazz Team Server:
  - a. Log on with the root user.
  - b. Define two new user IDs to the Linux for System z. For example, *db2fenc1* and *db2inst1*.
  - c. From the `DB2InstallPath/V9.1/instance` directory, run the following command:
 

```
./db2icrt -a server -s ese -u db2fenc1 -p db2c_db2inst1 db2inst1
```
2. Create the Jazz Database:
  - a. Log on with *db2inst1* or your DB2 instance user ID.
  - b. Start the DB2 manager:
 

```
db2start /D
```
  - c. Run the following command:
 

```
db2 create database JAZZ on YourDatabasePath using codeset UTF-8 territory en
```

**Important:** The directory *YourDatabasePath* must exist and the user ID *db2inst1* must have write access.

**Note:** To ensure proper handling of Unicode content, the database character set must be UTF-8 encoding.

**Tip:** If the database is not running, the command `db2start` starts DB2.

3. Locate the file **teamserver.properties** in the directory `JazzInstallDir/server` and rename it to **teamserver.derby.properties**.
4. Locate the file **teamserver.db2.properties** in the directory `JazzInstallDir/server` and rename it to **teamserver.properties**.
5. Specify the database and connection details in the file **teamserver.properties**. The default connection specification connects to a DB2 database that runs on *localhost* on port 50000. The database is called *JAZZ*, and both the user name and password are *db2admin*. If the default values were used when setting up your database, the **teamserver.properties** file might already be configured correctly. If not, change this information to match your configuration.
  - a. Open the file **teamserver.properties** in a text editor.
  - b. Locate the following lines:

```
com.ibm.team.repository.db.vendor = DB2
com.ibm.team.repository.db.jdbc.location=//localhost:50000/
    JAZZ:fullyMaterializeLobData=false;user=db2admin;password={password};
com.ibm.team.repository.db.jdbc.password=db2admin
```

- c. Edit the value of **com.ibm.team.repository.db.jdbc.location** for your DB2 server and database.

**Tip:** From your DB2 instance user (such as *db2inst1*), enter the command `db2 get dbm cfg`, then find the line that contains `SVCENAME`, which indicates the DB2 port name or number. If this command displays a number, use it as the port number (in place of 50000 in the example above). If the command returns a non-numeric name, determine what port number was assigned for this name and use that port number. The file `/etc/services` contains the mapping between port names and numbers. For more information, ask your database administrator or consult the database documentation.

- d. Edit the value of **com.ibm.team.repository.db.jdbc.location** for your DB2 user name.

It is important that the user has authority to create tables, tablespaces, and modify the database configuration.

- e. Specify the user password in the property **com.ibm.team.repository.db.jdbc.password**.

**Note:** Do not change the `password={password}` text in the **com.ibm.team.repository.db.jdbc.location** property.

- f. If necessary, change the property **com.ibm.team.repository.db.db2.content.tablespace.location** to a path on your Jazz Team Server where the main tablespace can be created.

**Note:** If this value is not changed from the default of **content\_tablespace**, the tablespace is created under the database storage location.

You are finished setting up your database. Continue with “Creating the Jazz Team Server database tables.”

## Creating the Jazz Team Server database tables

Create the database tables using the repository tools.

To create the database tables:

1. Review and update the database location in the **teamserver.properties** file:

```
com.ibm.team.repository.db.vendor = DB2

com.ibm.team.repository.db.jdbc.location=//localhost:50000/JAZZ:
fullyMaterializeLobData=false;
user=db2admin;password={password};

com.ibm.team.repository.db.jdbc.password=db2admin
```

2. Log on with *db2inst1* or your DB2 instance user name.
3. Run the command **reptools.sh -createTables** to create the database tables for a Jazz repository.

The **reptools** file is located in `JazzInstallDir/server`.

The command uses the configuration properties in **teamserver.properties** for the connection and size settings. By default, the command looks in the current directory. The parameter `teamserver.properties` can be used to reference a different properties file.

- If you are running a 32-bit system, edit **repotools.sh** and replace `zLinux64/ibm-java2-s390x-50` with `zLinux32/ibm-java2-s390-50`.
- Execute the following command:  

```
./repotools.sh -createTables
```

This command creates the tablespace and all the required tables and indexes for a Jazz Team Server repository.

4. After the database tables are created, you must stop and restart the database to make sure all changes are in effect.

**Tip:** Example commands that stop and start DB2 are **db2stop** and **db2start**.

You are finished setting up your database and can continue with “Starting the server.”

## Starting the server

This topic describes the different options for running the server startup scripts.

If you plan to use the included Apache Tomcat application server, you are ready to start the Jazz Team Server for System z.

If you plan to use the WebSphere Application Server, set up your server environment as described in “Setting up WebSphere Application Server” on page 7.

### Starting the Apache Tomcat server

This topic describes how to start the Apache Tomcat Server.

Before starting the server, proceed as follows:

- If you are using a DB2 Jazz repository, add the following line to your **.profile** file:
  - If you are running a 64-bit system:  

```
export LD_LIBRARY_PATH=/yourDB2Path/V9.1/lib64
```
  - If you are running a 32-bit system:  

```
export LD_LIBRARY_PATH=/yourDB2Path/V9.1/lib32
```
- To complete your modification, run the following command: **./profile**

Apache Tomcat has been installed in the directory `JazzInstallDir/server/tomcat`. The Web application (`jazz.war`) has been installed in the Apache Tomcat directory `webapps`. In a command window, set your current directory to `JazzInstallDir/server`. The server startup and shutdown scripts are located in this directory.

- If you want to run the start and stop scripts from any other directory, you must change the `.ini` files in `JazzInstallDir/server/provision_profiles` to use an absolute path.
- Apache Tomcat is configured to use the ports 9080 and 9443 in file `JazzInstallDir/server/tomcat/conf/server.xml`. If necessary, change them as appropriate for your system. If necessary, also update the configuration settings of Jazz Team Server repository HTTP ports in the **Advanced Properties** configuration page in the Jazz administrative Web interface.
- The directory `JazzInstallDir/server/tomcat/logs` contains the server log files. If you have trouble starting the server, check the log files.

If you are running a 32-bit system, edit `JazzInstallDir/server.startup` and `jazzInstallDir/server.shutdown` and replace `zLinux64/ibm-java2-s390x-50` with `zLinux32/ibm-java2-s390-50`.

You are now ready to start the Apache Tomcat server. To do so, run the startup file.

1. To start the server as user root, run this command:

```
./server.startup
```

If your user ID has administrator access, run this command:

```
sudo ./server.startup
```

**Note:** A separate Apache Tomcat console window is not visible. You can check the server startup progress by viewing the log file at `JazzInstallDir/server/tomcat/logs/catalina.out`.

2. To stop the server as user root, run this command:

```
./server.shutdown
```

If your user ID has administrator access, run this command:

```
sudo ./server.shutdown
```

**Note:** This example runs the start and stop scripts directly from the directory `JazzInstallDir/server`.

When the server is started, proceed to “Running the setup wizard” on page 12.

## Setting up WebSphere Application Server

This topic describes how to set up the Team Server to work with Application Server. This setup assumes that you are installing the Team Server for on the same machine as the Application Server.

Before beginning these steps, you should have the following completed:

- WebSphere Application Server is already installed.
- The database is created and the **teamserver.properties** file is updated with your database settings.
- Refer to your WebSphere Application Server documentation for information on setting up security and case-sensitive passwords.
- Java 2 Security option should be turned off. If this option is turned on in WebSphere Application Server it will cause the Jazz Team Server to fail to start.

**Attention:** Administrative security and application security should be enabled.

**Note:** Although WebSphere and many LDAP directories allow you to log in with user IDs and passwords that are not case sensitive, Jazz Team Server for System z stores user records with user IDs in the exact case as they are imported. When you log in to the Jazz Team Server, the user record is retrieved from the list of users and the case must match exactly.

- Only a subset of files will be used with the WebSphere Application Server:
  - The directory `/JazzInstallDir/server/license-update-site`.
  - The file `JazzInstallDir/server/teamserver.properties`.
  - The file `JazzInstallDir/server/log4j.properties`. If you use a WebSphere Application Server, in this file you can change the path for the `jazz.log` file, which only logs messages from the Jazz Team Server. The default path is `tomcat/logs/jazz.log`.

- The file `JazzInstallDir/server/tomcat/webapps/jazz.war`.
- The directory `JazzInstallDir/server/provision_profiles`.
- The directory `JazzInstallDir/server/update-site`.
- The repository tools in `JazzInstallDir/repotools`.

**Note:** This document does not provide instructions for configuring WebSphere Application Server authentication or SSL, which are complex topics. Detailed information about the authentication and encryption options for WebSphere Application Server is described in the WebSphere Application Server Information Center. See Securing applications and their environment at <http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/topic/com.ibm.websphere.express.doc/info/exp/ae/welc6topsecuring.html> for more information. The Jazz Web user interface requires that authentication be configured in order to perform authorization and personalize the application.

To setup the Jazz Team Server to work with WebSphere Application Server, proceed as follows:

1. Modify the `profile.ini` and `license-profile.ini` files:

Edit each of profiles in `JazzInstallDir/server/provision_profiles` and set an absolute path for the URL property.

**Example:**

Change this line:

```
url=file:./update-site
```

To something like this:

```
url=file:/opt/IBM/JazzTeamServer/server/update-site
```

**Note:** The directory `JazzInstallDir/server/provision_profiles` must only contain the `.ini` files included and must not contain any backup files. Some editors automatically save a backup file, which must be removed.

2. Verify or update the WebSphere Application Server level.

Jazz Team Server requires WebSphere Application Server Version 6.1 with the IBM Java SDK 1.5 SR5 or later cumulative fix applied. The IBM Java SDK 1.5 SR6 SDK update is available from Java SDK 1.5 SR6 Cumulative Fix for WebSphere Application Server at <http://www.ibm.com/support/docview.wss?rs=180&uid=swg24017492>. With WebSphere 6.1 and the IBM Java SDK, Jazz starts to report proxy errors after several operations.

3. Define users and user groups for Jazz Team Server.

The security roles and levels of access defined by the Jazz Team Server include:

- *JazzAdmins* - Jazz repository administrators with full read-write access
- *JazzDWAdmins* - Jazz repository administrators with specific permissions to control the data warehouse on a Jazz Team Server
- *JazzGuests* Users with read-only access to the Jazz repository
- *JazzUsers* Users with regular read-write access to the Jazz repository

There are two options for mapping security roles. If you have many users, it is more efficient to create groups and map those groups to Jazz Team Server roles rather than mapping a large number of individual users.

- a. Create Users Groups using names such as *JAZZADMINS*, *JAZZDWADMS*, *JAZZGUESTS*, *JAZZUSERS*.

**Note:** These group names are suggestions only. You can choose to assign any group name you prefer.

b. Assign users to the appropriate groups.

4. Update the JVM arguments.

The Jazz Team Server requires specific settings on the Java Virtual Machine in which it is run.

First, it needs to know where to find the configuration files for the server and for **log4j**, the logging framework used by the server. This is done by setting the system properties **com.ibm.team.server.configURL** and **log4j.configuration**. These properties use a URL rather than a simple path, so the value should be specified as a **file://-style URL**.

The second property that is required for the Jazz Team Server is to provide more than the default maximum memory allocation. This allocation should be set according to the size of the team supported by the server and the memory capacity of the server where the Jazz Team Server is running. A typical medium-size team can use a value of 1000 MB of heap memory for the Jazz Team Server process.

The following system properties must be set to control server behaviors. Set these JVM properties in the WebSphere Administrative Console, by substituting JazzInstallDir with your Jazz Team Server for System z installation directory:

- a. Click **Servers** → **Application Servers**.
- b. Click **server1** or your application server.
- c. Click **Java and Process Management** → **Process Definition**.
- d. Click **Java Virtual Machine**.
- e. Add the value 1000 to the **Maximum Heap Size**.
- f. Click **Apply**.
- g. Click **Custom Properties**.
- h. Add the following properties: Click **New**; enter the **Name** and **Value**; then click **OK**.

- **Name:** com.ibm.team.repository.provision.profile **Value:** com.ibm.team.repository.provision.profile

**Note:** The property com.ibm.team.repository.provision.profile must point to the directory containing the provision\_profiles.

- **Name:** com.ibm.team.server.configURL **Value:** file:///JazzInstallDir/server/teamserver.properties (as file URL)
- **Name:** log4j.configuration **Value:** file:///JazzInstallDir/server/log4j.properties (as file URL)
- **Name:** java.awt.headless **Value:** true
- **Name:** org.eclipse.emf.ecore.plugin.EcorePlugin.doNotLoadResourcesPlugin **Value:** true

i. Click **Save directly to the master configuration** .

5. Install the Jazz Application.

- a. Open the administrative console for your WebSphere Application Server.
- b. Click **Applications** → **Install New Application**.
- c. Under **Path to new Application**, click **Local file system**.
- d. Under **Full path**, enter:

JazzInstallDir/server/tomcat/webapps/jazz.war

- e. Set **Context Root** to `/jazz`.
- f. Under **How do you want to install the application?**, select **Show me all installation options and parameters** and click **Next**.

Complete each subsequent step, accepting all defaults until you get to **Step 8 Map security roles to users or groups**.

- **To map groups of users to Jazz Team Server roles (recommended):**
  - 1) Use **Look up groups** to map those groups of users to their corresponding roles.
  - 2) Select *JazzAdmins* and click **Look up groups**.
  - 3) On the next screen, click **Search**, and select at least one group from the **Available** list and move it to **Selected** using **>>**.

**Note:** The WebSphere Application Server console displays only those groups that have at least one user assigned.

- 4) Repeat these steps for *JazzDWAdmins*, *JazzUsers*, and *JazzGuests*.
- **To map individual users to Jazz Team Server roles:**
  - 1) Select *JazzAdmins* and click **Look up users**.
  - 2) On the next screen, click **Search**, and select at least one user ID from the **Available** list and move it to **Selected** using **>>**.
  - 3) Repeat these steps for *JazzDWAdmins*, *JazzUsers*, and *JazzGuests*.

**Note:** If you use LDAP security, the users and groups in this case would correspond to user IDs or groups on your LDAP server. For more information on LDAP security and Jazz, see *Managing users with Lightweight Directory Access Protocol (LDAP)* at [http://publib.boulder.ibm.com/infocenter/rtczhhelp/v1r0m0/topic/com.ibm.team.install.doc/topics/c\\_plan\\_identity\\_management.html](http://publib.boulder.ibm.com/infocenter/rtczhhelp/v1r0m0/topic/com.ibm.team.install.doc/topics/c_plan_identity_management.html).

- g. Click **Next** and continue through the remaining **Install New Application** steps.
  - h. Click **Finish**.
  - i. Click **Save directly to the master configuration**.
6. Before restarting WebSphere, add the following line to your `.profile.ini`:
- ```
export LD_LIBRARY_PATH=/yourDB2Path/V9.1/lib64
```

and run the command `./profile` to take your modification into account.

7. Restart WebSphere Application Server.
- In the following command line examples, *WASInstallDir* represents the location where WebSphere Application Server is installed on your server.
- The default value for WebSphere installation directory is:  
`/opt/IBM/WebSphere/AppServer`
- You can restart the server with the following commands:
- ```
cd WASInstallDir/bin
./stopServer.sh server1
[for a secure server, include: -username {User} -password {Password}]
./startServer.sh server1
```

After the server is started, proceed to “Running the setup wizard” on page 12.

## Optional: Setting up a z/OS LDAP server with SDBM backend (RACF)

If you have z/OS® running in your setup, you have the option of using a z/OS LDAP server with an SDBM backend. SDBM provides native authentication on z/OS with RACF®. This task is optional and should be performed by your z/OS security administrator.

- **LDAP configuration:**

LDAP (Lightweight Directory Access Protocol ) is configured as an SDBM backend as follows. The example shows the LDAP configuration file **slapd.conf** configured for SDBM.

```
listen ldap://:3399
maxConnections 2000
adminDN "profiletype=user"
database sdbm GLDSDBM
suffix "sysplex=yourSysplexName,o=yourOrganization"
sizeLimit 2000
timeLimit 3600
```

Refer to z/OS Integrated Security Services LDAP Server Administration and Use at <http://publibfp.boulder.ibm.com/cgi-bin/bookmgr/BOOKS/glda2a40/CCONTENTS> for a complete description of keywords.

**Note:** Notice how only **profiletype=user** is specified in the configuration file. This enables multiple BDNs to act as an LDAP AdminDN.

The BDN must be specified in the LDAP user registry properties under **Security** → **Secure administration, applications, and infrastructure** in the administrative console.

All security requests from WebSphere will be transferred to RACF (after global security has been activated) under the LDAP Administrator DN of the Bind Distinguished Name. The BDN must be an RACF-defined user with a valid OMVS segment. This RACF user ID must have the system-wide **AUDITOR** attribute.

- **WebSphere user registry settings:**

In WebSphere, some global security settings have to be set in order to use LDAP SDBM as user registry.

1. In the administrative console go to **Security** → **Secure administration, applications, and infrastructure** → **Standalone LDAP registry** → **configure** and supply the values shown below.

**Note:** The **Ignore case for authorization** check box should be checked in order to convert any lowercase user ID or password forwarded to RACF to uppercase.

Property	Value (description, actual)
Bind distinguished name (DN)	Master Administrators' RACF user ID
Bind password	Master Administrators' password
Type	Custom
Host	IP address or URL of LPAR where LDAP is listening
Port	LDAP listen port as specified in slapd.conf
Base distinguished name (DN)	suffix as in slapd.conf (without the quotes)

Property	Value (description, actual)
Bind distinguished name (DN)	racfid=BDNracid,profiletype=user,suffix
Bind password	password of BDNracid

2. In Advanced LDAP user registry settings, add the filters shown below:

Property	Value
User filter	racfid=%v
Group filter	racfid=%v
User ID map	*:racfid
Group ID map	*:racfid
Group member ID map	racfconnectgroupname:racfgroupuserids

**Note:** The Bind Distinguished Name should be a RACF user ID with the **AUDITOR** attribute, a valid OMVS segment (specific or implied by a default segment), and no TS0 segment. It is not required, so it is an easy step to avoid misuse of the BDN account.

Use a non-expiring password for the BDN user ID to prevent the WebSphere cell from halting because of internal authentication and authorization failures.

If your organization's policies require this category of user IDs to expire, ensure that you have a process in place to change the BDN password before it expires.

## Running the setup wizard

Running the setup wizard verifies that the server is operating properly and guides you through the steps to configure the server.

To verify that the Jazz Team Server is connecting to the database, look at the server log or console output. The connection and database information is echoed on its first access. The directory `JazzInstallDir/server/tomcat/logs` is used for the server log files.

This procedure assumes your server is available using the hostname *yourServerName* and the default port is *9443*. If necessary, replace *yourServerName* with your server hostname and replace port *9443*.

Start the setup wizard to configure your server. Use the URL: `https://yourServerName:9443/jazz/setup`.

The default user name and password are case-sensitive:

- If you use the local operating system (Linux for system z) as a security repository, log in as a *JazzAdmin* user that is defined in your Linux for system z system.

If you configured the LDAP directory Web container, log in as a *JazzAdmin* user that is defined in your LDAP directory.

Choose a setup path. The setup wizard has two main paths.

- The **Fast Path Setup** uses the default configuration. If you want to get the server running quickly, the fast path setup is a good option. During the Fast Path Setup, you set up the following:

- user registry
- The **Custom Setup** guides you through the detailed server configuration, including the ability to enable e-mail notifications. During the Custom Setup, you set up the following:
  - database
  - e-mail notification
  - user registry

When the initial setup is complete, additional options can be configured from the Jazz Team Server Administrative Web user interface by using the URL: `https://yourServerName:9443/jazz/admin`.

If the server setup wizard does not load, check the following items:

- Verify that the application server has started. Use the URL: `http://yourServerName:9080`.
- Verify the Jazz Team Server has started by logging in to the Jazz Team Server Administrative Web interface using the URL: `https://yourServerName:9443/jazz/admin`.
- The URI root for the Jazz Team Server path must be **/jazz**. For example: `https://example.com:9443/jazz` must be used rather than `https://example.com:9443`.

## Completing the installation

After the server is installed, you must consider some configuration options before continuing.

- Some files contain passwords. Those files should be protected so that they are readable only by users authorized to know the password for the accounts.
  - **teamserver.properties** - The Jazz Team Server requires that the database password is stored in `JazzInstallDir/server/teamserver.properties`.  
When properties files are saved, the application always makes a backup copy of the previous version in the same directory. If you want to remove all files that contain the clear-text password, remove the backup properties files after configuring the server for the first time.
  - **cqconnector.properties** sync engine requires that user passwords be stored in an properties file.
  - **cqconnector.properties** - The ClearQuest Connector requires that both ClearQuest® user IDs and passwords be stored in a properties file.
- When connecting to the server with the Rational Team Concert client or a Web browser, you might see security certificate warnings. To disable the warning, see Disabling security certificate settings at [http://publib.boulder.ibm.com/infocenter/rtczhelp/v1r0m0/topic/com.ibm.team.install.doc/topics/t\\_disable\\_server\\_certificates.html](http://publib.boulder.ibm.com/infocenter/rtczhelp/v1r0m0/topic/com.ibm.team.install.doc/topics/t_disable_server_certificates.html).
- You are now ready to connect to the server with the Rational Team Concert client or a Web browser.

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## Installing the Build System Toolkit

The Build System Toolkit must be installed on the build machines using a .zip file download.

1. Download the `RTCz-BuildSystemToolkit-1.0.1-Linux-on-Systemz.zip` file.
2. Extract the .zip file into the `JazzInstallDir` directory.

3. After the installation is complete, configure a build. See About Jazz team build at [http://publib.boulder.ibm.com/infocenter/rtczhelp/v1r0m0/topic/com.ibm.team.build.doc/topics/c\\_build-about.html](http://publib.boulder.ibm.com/infocenter/rtczhelp/v1r0m0/topic/com.ibm.team.build.doc/topics/c_build-about.html) for more information about the Build System Toolkit.

**Note:** If you want to install the Build System Toolkit on a system where the Jazz Team Server is not installed, you must edit the file `..../buildsystem/buildengine/eclipse/jbe.sh` and replace the line:

```
JAVA="$START_DIR/../../../../server/zLinux64/ibm-java2-s390x-50/jre/bin/java"
```

with

```
JAVA="@YourJavaInstallPath@/jre/bin/java"
```

where `@YourJavaInstallPath@` is your Java installation directory.

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## Configuring Security-Enhanced Linux

If Security-Enhanced Linux (SELinux) is enabled, you must either disable it or change the security context of the Java Runtime Environments (JREs) used for installing and running Rational Team Concert to allow text relocation.

If you have set up a machine for the sole purpose of evaluating Rational Team Concert and the SELinux features are not important to you, then the easiest way to proceed is to disable SELinux.

### Notes:

- SELinux is installed and enabled by default on Red Hat Enterprise Linux 5.
- SELinux is not installed on Suse Linux Enterprise Server 10.
- To disable SELinux from the command line:
  1. Run the **setup** command (this is `/usr/bin/setup`).
  2. Select **Firewall Configuration** and press **Enter**.
  3. Use the Tab and arrow keys to change the **SELinux** to Disabled.
  4. Select **OK** and press **Enter**.
- To change the security context of the JREs:
  1. In the installation files directory, locate the directory `jre`. If you extracted the installation files to `/tmp/rtc`, then the directory `jre` is located at `/tmp/rtc/zLinux64/ibm-java2-s390x-50/jre`.
  2. Run the command **chcon -R -t textrel\_shlib\_t** against the `jre` directory. This command recursively processes the files and allows text relocation. For example, if you extracted the installation files to `/tmp/rtc`, run the following command:

```
chcon -R -t textrel_shlib_t /tmp/rtc/zLinux64/ibm-java2-s390x-50/jre
```

---

## Setting up the Rational Team Concert client

You must install the Rational Team Concert client as well as the documentation extension for Rational Team Concert for System z, which will insert the specific topics for Rational Team Concert for System z in the Rational Team Concert documentation.

To install the Rational Team Concert client, follow the instructions given in Installing Rational Team Concert client at [http://publib.boulder.ibm.com/infocenter/rtczhelp/v1r0m0/topic/com.ibm.team.install.doc/topics/c\\_client\\_installation.html](http://publib.boulder.ibm.com/infocenter/rtczhelp/v1r0m0/topic/com.ibm.team.install.doc/topics/c_client_installation.html).

To install the System z documentation extension for the Rational Team Concert client, you must perform the following steps:

1. If the Rational Team Concert client has been installed with the Installation Manager, download RTCz-Client-Doc-Add-on-1.0.1-Win.exe for Windows or RTCz-Client-Doc-Add-on-1.0.1-Linux.zip on Linux.
2. Extract the contents of the file. This file contains an executable file that will run the IBM Installation Manager launchpad program. This program will guide you through the install process.