Installation and configuration of IBM RTC 3.0.1.2 on Windows

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Installation and configuration of IBM RTC 3.0.1.2 on Windows Server 2008 R2 x64 and SQL Server 2008 R2 x86

June 2013 Applies to: RTC 3.0.1.2 | Windows Server 2008 R2 | Microsoft SQL Server 2008 R2

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Summary

This white paper provides steps that will help you install and configure IBM RTC 3.0.1.2 on 64-bit Windows Server 2008 R2. It includes instructions for configuring SQL Server 2008 and Apache webserver for proper functioning of RTC 3.0.1.2.

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Overview

This white paper assumes that you have installed SQL Server 2008 R2 and your system meets the requirement for installation of RTC 3.0.1.2. Details of system requirements for RTC is available on jazz.net website at following location - <u>https://jazz.net/library/article/632/</u>

You will have to signup on <u>http://jazz.net</u> for downloading RTC 3.0.1.2 installer. This is an important setup and you cannot proceed with installation without this.

If you are planning to expose RTC Server on extranet or internet then you need to configure the firewall to allow traffic from Apache server. RTC server allows both SSL (Secure Socket Layer) and non-SSL traffic.

Software prerequisites for Access apps

The following are software pre-requisites for installation of RTC 3.0.1.2:

SQL Server: SQL Server 2008 R2 Standard or Enterprise. You can also use free version of SQL Server 2008 R2 – SQL Server 2008 R2 Express edition. It is also recommended that you install SQL Server Management Studio (SSMS). SSMS simplifies the task for creation and configuration of databases.

Apache Tomcat: Apache Tomcat 7.0.32 is recommended because it contains critical security fixes. Apache Tomcat installation is optional as Apache Tomcat 7.0.32 5.5.30 is bundled along with RTC 3.0.1.2 installer.

JDBC Driver: JDBC Driver 2.0 is required for configuring database for RTC Server. This can be downloaded from Microsoft website.

Java Runtime Environment: IBM Java SDK 5.0 SR11 is bundled along with the RTC Installer.

You can refer to following article on jazz.net for more details on software prerequisites - <u>https://jazz.net/library/article/632/</u>

Installation of RTC 3.0.1.2 Server

RTC Server installer can be downloaded from <u>http://jazz.net</u>. Logon to the Jazz website using your credentials and navigate to RTC download page - <u>https://jazz.net/downloads/rational-team-concert/</u>. Download the correct version of the RTC Installer based on your server configuration.

Download and launch RTC 3.0.1.2 Installer:

Download the RTC 3.0.1.2 installer with file name - **RTC-Web-Installer-Win-3.0.1.2.zip** and save it on your disk. Extract the contents of the zip archive on your disk and run *Launchpad.exe*. This will launch the RTC Installer. Image-1 below is the screenshot of the first page of the RTC installer.



Image-1: Launch screen of RTC 3.0.1.2 Installer

As highlighted in Image-1 above, click on "Jazz Team Server with Required Keys, *including Trials, and CCM, QM and RM applications*" to proceed with the installation. This will launch the IBM Installation Manager. You'll have to authenticate yourself using the Jazz.net credentials before proceeding with the installation.

Selection of packages:

On next screen you will have to select the packages that you would like to install on your setup. These packages include:

IBM Installation Manager

Jazz Team Server and CCM, QM and RM applications

Required Base License Keys, including trails

Select all three options and press Next button. You can also check for other versions, fixes and extensions by clicking on the "*Check for other versions, fixes and extensions*" button on right side. Image-2 shows the screenshot of this page.



Image-2: High level installation package selection

International Program License Agreement:

Go through the license agreement. If license terms are acceptable to you, click on the checkbox – "*I accept the terms in the license agreement*" and press *Next* button. See the Image-3 for the screenshot of this page.

Read the following license agreements carefully.	
☐- IBM Installation Manager License Agreement ☐- Jazz Team Server and CCM, QM, and RM Applications License Agreement	International Program License Agreement Part 1 - General Terms Py DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND LICENSEE TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS, DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, CLICK ON AN "ACCEPT" BUTTON, OR USE THE PROGRAM; AND PROMPTLY RETURN THE UNUSED MEDIA, DOCUMENTATION, AND PROOF OF ENTITLEMENT TO THE PARTY FROM WHOM IT WAS OBTAINED FOR A REFUND OF THE AMOUNT PAID. IF THE PROGRAM WAS DOWNLOADED, DESTROY ALL COPIES OF THE PROGRAM. I. Definitions 'Authorized Use" - the specified level at which Licensee is authorized to execute or run the Program. That level may be measured by number of users, millions of service units ("MSUs"), Processor Value Units ("PVUs"), or other level of use specified by IBM. 'IBM' - International Business Machines Corporation or one of its subsidiaries. 'License Information" ("LI") - a document that provides information and any additional terms specific to a Program. The Program's Li is available at www.ibm.com/software/sla. The LI can also be found in the Program's directory, by the use of a system command, or as a booklet included with the Program. 'Program's the following, including the original and all whole or partial copies: 1) machine-readable instructions and data, 2) components, files, and modules, 3) audio-visual content (such as images, text, recordings, or pictures), and 4) related licensee with a FoC, then IBM may accept as the FOC the original placi alse receipt or other sales record from the party (HMEH IBM or Nervarranty, future update prices, if any, and potential special or promotional opportunities. If IBM does not provide Licensee with a FoC, then IBM may accept as the FOC the original placi alse receipt or other sales record from the party (HMEH IBM or Nervarranty, Future update prices, if any, and p

Image-3: International Program License Agreement

Directory selection for "shared resources" and "installation manager"

On this screen you will have to provide installation directory for shared resources and installation manager. You need to make sure that there is sufficient space available on the drive. This is important to keep space for future packages and their shared resources. Image-4 is a screenshot of this page. Press *Next* button to continue with the installation.

IBM Installation Manager			
Install Packages Select a location for the share	ed resources directory and a location for Installation Manager.		
When you install pack 1) The shared resour 2) The installation dir Important: You can c available space beca	kages, files are stored in two locations: ces directory - resources that can be shared by multiple packages. ectory - any resources that are unique to the package that you are installing. mly select the shared resources directory the first time you install a package with the IBM Installation Ma use it must have adequate space for the shared resources of future packages.	anager. For best results select the drive with the most	
' Shared <u>R</u> esources Directory:	DI\Program Files (x86)\IBM\IBMIMShared	Br	o <u>w</u> se
Once installed, IBM Ir Installation <u>M</u> anager Directory	nstallation Manager will be used to install, update, modify, manage and uninstall your packages. : D:\Program Files (x86)\IBM\Installation Manager\eclipse	Br	owse
Disk Space Information Volume Available Space D: 5,35 GB			
0		< Back Next > Instell	Cancel

Image-4: Directory selection for "shared resources" and "installation manager"

Package selection

Since this is a fresh installation, you need to create a new package group for installing RTC Server. Name of the default package is "*Jazz Team Server*" and you cannot change it. You'll have to specify the installation directory for this package. Image-5 shows the screenshot of this page. Press *Next* button to continue with the installation.

elect an existing package group, or create a new one.	ne packages can be installed into a common package group and will share a common user interface.
D Use the existing package group	
Э ⊆reate a new package group	
Package Group Name	Installation Directory
······ ⁴ te Jazz Team Server	D:\Program Files (x86)\IBM\JazzTeamServer
Package Group Name: Jazz Team Server	
^v ackage Group Name: Jazz Team Server nstallation <u>Di</u> rectory: □D∤\Program Files (×86)\IBM\JazzTeamServer	Browse
Package Group Name: Jazz Team Server nstallation <u>Di</u> rectory: Dt\Program Files (x86)\IBM\JazzTeamServer	Browse,
Package Group Name: Jazz Team Server Installation Directory: Dł\Program Files (x86)\IBM\JazzTeamServer Details	Disk Space Information
³ ackage Group Name: Jazz Team Server Installation <u>Directory:</u> D}\Program Files (x86)\IBM\JazzTeamServer Details Shared Resources Directory: D:\Program Files (x86)\IBM\IBMIMShared	Disk Space Information Volume Available Space
Package Group Name: Jazz Team Server Installation <u>Di</u> rectory: D}\Program Files (x86)\IBM\JazzTeamServer Details Shared Resources Directory: D:\Program Files (x86)\IBM\IBMIMShared	Disk Space Information Volume Available Space D: 5.35 GB
Package Group Name: Jazz Team Server Installation Directory: DI\Program Files (x86)\IBM\JazzTeamServer Details Shared Resources Directory: D:\Program Files (x86)\IBM\IBMIMShared	Disk Space Information Volume Available Space D: 5.35 GB
Package Group Name: Jazz Team Server nstallation <u>D</u> irectory: Dt\Program Files (x86)\IBM\JazzTeamServer Details Shared Resources Directory: D:\Program Files (x86)\IBM\IBMIMShared	Disk Space Information Volume Available Space D: 5.35 G8
Package Group Name: Jazz Team Server Installation <u>D</u> irectory: Dt/Program Files (x86)/IBM1/JazzTeamServer Details Shared Resources Directory: D:\Program Files (x86)/IBM1/IBMIMShared	Disk Space Information Volume Available Space D: 5.35 GB
rackage Group Name: Jazz Team Server Installation <u>D</u> irectory: DI: Program Files (x86)\IBM\JazzTeamServer Details Shared Resources Directory: D:\Program Files (x86)\IBM\IBMIMShared	Disk Space Information Volume Available Space D: 5.35 GB
rackage Group Name: Jazz Team Server Installation <u>D</u> irectory: Dt\Program Files (x86)\IBM\JazzTeamServer Details Shared Resources Directory: D:\Program Files (x86)\IBM\IBMIMShared	Disk Space Information Volume Available Space D: 5.35 GB
Package Group Name: Jazz Team Server Installation <u>D</u> irectory: Dt\Program Files (x86)\IBM\JazzTeamServer Details Shared Resources Directory: D:\Program Files (x86)\IBM\IBMIMShared	Disk Space Information Volume Available Space D: 5.35 GB
Package Group Name: Jazz Team Server Installation <u>D</u> irectory: Dt\Program Files (x86)\IBM\JazzTeamServer Details Shared Resources Directory: D:\Program Files (x86)\IBM\IBMIMShared	Disk Space Information Volume Available Space D: 5.35 GB

Image-5: Package selection page

Language package selection

On this page you can select the language package you would like to install. Default selection is *English* and it cannot be unselected. Image-6 shows the screenshot of this page. Press *Next* to continue with the installation.

BM Installation Mana Install Packa	ges			
Select the translation	ns to install.			1
Translations				
🗹 <u>E</u> nglish	Brazilian P <u>o</u> rtuguese	Czech	Erench	🗖 <u>G</u> erman
Hungarian	🔲 Italian	🔲 Japanese	🗖 Korean	🗖 Polish
🗖 Ru <u>s</u> sian	Simplified Chinese	🗖 Spanish	☐ Traditional Chinese	
)			(<u>Back</u> <u>N</u> ext >	Install Cancel

Image-6: Language package selection page

Feature selection

On this page you can select the features that you would like to install. You can unselect the Apache Tomcat installation if you have it installed already. Following three applications are also bundled along with Jazz Team Server:

CCM: Change and configuration Management

RM: Requirement Management

QM: Quality Management

You can select the applications which you would like to install. Following two features are mandatory installation and cannot be unselected:

IBM Installation Manager 1.4.3

Required Base License Keys, including trials, for Rational Team concert...

Select the features that you would like to install and press Next button. Image-7 is a screenshot for this page.

BM Installation Manager								_ 🗆
Install Packages Select the features to inst	6 :all.					-		-
Constant Service Constrant Service Constant Service Constant Service Constant Service	tion Manager 1 wer and CCM, Q Server as ge and Configura rements Manage y Management a Server th Application Set License Keys, in	1.3 M, and RM Applicatio tion Management ment rver v5.5 ncluding Trials, for Ra	ons 3.0.1.2 ational Team Conce	ert, Rational Qualit	y Manager and	Rational Requirem	ents C	
☐ Show dependencies ☆- Selected by Installatic	on Manager beca	ause of dependencies	;		Expand	d All ⊆ollapse All	<u>R</u> estore De	fault
Details								
IBM® Installation Man IBM® Installation Manager	ager 1.4.3 r							
Disk Space Information	n							
Shared Descurses Area	Volume	Required	Temporary	Total	Available			
Installation Directory	D:	1.24 GB	46.06 MB	1.29 GB	5.35 GB			
)					< <u>B</u> ack	<u>N</u> ext >	Install	Cancel

Image-7: Feature selection page

Context root selection

On this page you can select the application context for Jazz Team server and other applications that you had selected in the previous step. It is recommended to use default (3.x) context root for installation. Following context root values are used for default installation:

Jazz Team Server - /jts

Change and configuration management - /ccm

Quality Management - /qm

Requirements Management - /rm

Press *Next* button to continue with the installation. Image-8 shows the screenshot of this page.

Install Packages Fill in the configurations for the packages.	
Context Root Options	Common Configurations Context Root Options Use the options below to align the context roots of installed applications with context root values used in your See these help topics for additional information related to the options here: - Upgrading from a previous release requires planning beyond the options presented here. - Command-line installation allows for additional control over context roots (such as /ccm2). Select one of these options: © Use default 3.x application context roots O Use Rational Team Concert 2.x context root O Use Rational Quality Manager 2.x context root O Use Rational Requirements Composer 2.x context root Application context root values Based on your application choices and the selection above, these context root values will be used:
	/jts Jazz Team Server /ccm Change and Configuration Management /qm Quality Management /rm Requirements Management

Image-8: Context root selection page

Installation summary

On this page you can view the installation summary and proceed with the installation of the Jazz team server and the applications selected by you. This page shows the total download size of the installation package.

Press *INSTALL* button to begin installation. This will download the latest files from the server and deploy it on your machine. You'll have to make sure that you have

an active internet connection available for the installation. Images-9 shows the screenshot of this page.

Install Daskages	
Install Packages	
Review the summary information.	
Target Location	
Package Group Name: Jazz Team Serv	ver
Installation Directory: D:\Program File	es (x86)\IBM\JazzTeamServer
Shared Resources Directory: D:\Program File	es (×86)\IBM\IBMIMShared
Packages	
Packages	
IBM® Installation Manager 1.4.3	
□ ⊟… III Jazz Team Server and CCM, QM, and	1 RM Applications 3.0.1.2
Required Base License Keys, including	n Trials, for Rational Team Concert, Rational Quality Manager and Rational Requirements Composer 3.0.1.2
Environment	Disk Space Information
Environment English	Disk Space Information Total Available Space
English	Disk Space Information Total Available Space C: 585.32 MB
English	Disk Space Information Total Available Space C: 585.32 MB D: 5.35 GB
English	Disk Space Information Total Available Space C: 585.32 MB D: 5.35 GB Total Download Size: 902.63 MB Total Installation Size: 2.07 GB
 Environment English Repository Information 	Disk Space Information Total Available Space C: 585.32 MB D: 5.35 GB Total Download Size: 902.63 MB Total Installation Size: 2.07 GB

Image-9: Installation summary page

You will see the post installation page once the installation is over. Press *FINISH* button on this page to exit the installer. This will bring up an article in RTC documentation to configure the server. You can read the documentation online at following location -

http://pic.dhe.ibm.com/infocenter/clmhelp/v3r0m1/index.jsp?topic=/com.ibm.jazz. install.doc/topics/c_post_install.html. Image-10 shows the screenshot of this page.



Image-10: Post Installation page

SQL Server configuration

SQL Server will host databases for Jazz Team Server and other applications selected during the installation. Detailed information on configuring SQL Server for RTC is available at following location -

http://pic.dhe.ibm.com/infocenter/clmhelp/v3r0m1/index.jsp?topic=%2Fcom.ibm.jazz.i nstall.doc%2Ftopics%2Ft_s_server_installation_setup_sql.html

Download JDBC Driver 2.0

You will have to download and install JDBC Driver 2.0 from Microsoft website. JDBC Driver can be downloaded from following location -

http://www.microsoft.com/downloads/details.aspx?FamilyID=99b21b65-e98f-4a61b811-19912601fdc9&displaylang=en

[Optional] Configure SQL Server port

Configuring SQL Server on custom port is an optional step. This is required if you have multiple SQL Server running on your machine. You can configure SQL Server 2008 R2 to run on custom port. Detailed steps on configuring SQL Server 2008 R2 is available on following location – <u>http://msdn.microsoft.com/en-us/library/ms177440(v=sql.105).aspx</u>

SQL Server Configuration Manager (Local)	Protocol Name	Status	
SQL Server Services	🕉 Shared Memory	Enabled	
👤 SQL Server Network Configuration (32bit)	🐺 Named Pipes	Enabled	
Protocols for SQLEXPRESS_32BIT	TCP/IP	Enabled	TCP/IP Properties
🖳 SQL Native Client 10.0 Configuration (32bit)	VIA 🐨	Disabled	Protocol JP Addresses
Scient Protocols			
🖶 Aliases			Enabled Yes
SQL Server Network Configuration			IP Address 127.0.0.1
2. SQL Native Client 10.0 Configuration			TCP Dynamic Ports
			TCP Port
			Active Yes
			Enabled No
			IP Address fe80::5efe:10.10.0.121%14
			TCP Dynamic Ports 0
			TCP Port
			□ Ib2
			Active Yes
			Enabled No
			IP Address 2001:0:9d38:953c:3c60:2d91:f5f!
			TCP Dynamic Ports 0
			TCP Port
			Active
			Indicates whether the selected IP Address is active.
			OK Cancel Apply Help
	1		

Image-11: Configuring SQL Server port

🤝 📶 🖽 🖙 🔟						
SQL Server Configuration Manager (Local)	Protocol Name	Status				
SQL Server Services	🕉 Shared Memory	Enabled				
SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration (32bit) Protocols for SQLEXPRESS_32BIT SQL Native Client 10.0 Configuration (32bit) Client Protocols Aliases SQL Server Network Configuration SQL Native Client 10.0 Configuration	Protocol Name Shared Memory Named Pipes TCP/IP	Status Enabled Enabled Disabled	/IP Propertie otocol IP Ad IP5 Active Enabled IP Address TCP Dynamic TCP Port IP6 Active Enabled IP Address TCP Dynamic TCP Port IPAII TCP Dynamic TCP Port ICP Port	Ports Ports Ports er the selected	Yes No 2001:0:9d38:953c:3c60:2d91: 0 Yes No fe80::3c60:2d91:f5f5:ff86%12 0	? ×
				ок	Cancel Apply H	
	1					

Image-12: Configuring SQL Server port

This port number will be used in the connection string while configuring database and data warehouse for Jazz Team Server and other applications.

Following commands / steps will come handy while configuring SQL Server 2008 R2 with JDBC Driver.

1. Use following command to get version on JVM -

%installdir%\IBM\JazzTeamServer\server\jre\bin>JAVA -version

- 2. Also make sure that users have full access on %installdir%\IBM folder
- Another simple way is to create a new folder "sqlserver" under the installation directory and place the driver in that directory. Please refer to comments from Walter Mansur given on Aug 03 '11, 9:09 a.m at following location -<u>https://jazz.net/forum/questions/60079/cannot-create-jazz-database-tables-sql-</u><u>server</u>
- 4. Use following command to verify SQL Server configuration -

%installdir%\IBM\JazzTeamServer\server>repotools-jts.bat -verify

SQL configuration is complete if the connection verification succeeds in step 4 above.

You should also configure SQL Server authentication in case you are not planning to use windows authentication. You can refer to following article for more details - <u>http://msdn.microsoft.com/en-us/library/ms188670(v=sql.110).aspx</u>

RTC Server configuration

Apache Tomcat configuration

If you want to change the default ports for SSL and non-SSL you'll have to configure the *server.xml* file for Apache Tomcat. This XML is located at following path: **%installdir%\IBM\JazzTeamServer\server\tomcat\conf\server.xml**

Default port for SSL is 9443 and for non-SSL is 9080. In current installation this has been changed to 443 for SSL and 8080 for non-SSL. Here are the relevant sections from server.xml:

```
<!-- Define a non-SSL HTTP/1.1 Connector on port 9080 -->
<Connector port="8080" maxHttpHeaderSize="8192"
maxThreads="150" minSpareThreads="25" maxSpareThreads="75"
enableLookups="false" redirectPort="443" acceptCount="100"
connectionTimeout="20000" disableUploadTimeout="true"
URIEncoding="UTF-8" />
```

<!-- Define a SSL HTTP/1.1 Connector on port 9443 -->

<Connector port="443"

connectionTimeout="20000"
maxHttpHeaderSize="8192"
maxThreads="150"
minSpareThreads="25"
maxSpareThreads="75"
enableLookups="false"
disableUploadTimeout="true"
acceptCount="100"
scheme="https"
secure="true"

clientAuth="false"
 keystoreFile="ibm-team-ssl.keystore"
 keystorePass="ibm-team"
 sslProtocol="\${jazz.connector.sslProtocol}"
algorithm="\${jazz.connector.algorithm}"
URIEncoding="UTF-8" />

You can read more about this here http://pic.dhe.ibm.com/infocenter/clmhelp/v3r0m1/topic/com.ibm.jazz.install.doc/t opics/t_ports_change.html

Starting up RTC server

Use following command to start the RTC Server: **IBM\JazzTeamServer\server>**.\server.startup.bat

JAZZ Team Server configuration

Jazz Team Server configuration involves following 6 steps:

- 1. Configure Public URI
- 2. Configure Database
- 3. Enable e-mail notification
- 4. Register application
- 5. Setup user registry
- 6. Configure Data warehouse

Logon to https://localhost/jts/setup

Username: **ADMIN**

Password: **ADMIN**

Configure Public URI

You can now configure the public URI of the RTC Server. This is particularly important if you are planning to have RTC server is accessible over the Internet. You'll have to make sure that relevant ports are open on firewall. Image-13 shows the screenshot of the public URI configuration page. Press "*Test Connection*" button to verify the connection. You need to make sure that this test succeeds before proceeding further with the configuration.

Configure this value in the fol	owing format: "https:// <public_hostname><:port>/<context>" (e.g. https://host.my.company.net:9443/jts)</context></public_hostname>
Step 1: Configure Public U	ข
Property	Current Value
Public URI Root	https://host.my.company.net/jts
Step 2: Confirm Public UR	
🏝 warning	
The Public URI (which incl to the data on the server a review the information on t the Public URI.	udes the fully qualified hostname) must be chosen carefully because once it is set, it becomes integral id can not be modified. This is particularly important when configuring a production server. Please his page and refer to the Planning your URIs topic for guidance and recommendations on configuring
I understand that once	he Public URI is set, it can not be modified.
The configuration test su	ceeded. Click Next to save the settings and continue. Restore to Saved Test Connection
	< Back Next > Finish

Image-13: Public URI configuration

Database configuration

Image-14 shows the screenshot of database configuration page for Jazz Team Server. If you have configured SQL Server with custom port number, you'll have to mention it in the connection string.

JDBC connection string:

//sqlserver:port;databaseName=dbname;user=username;password={passwor d}

Press "*Test Connection*" button to test the connectivity with the SQL Server. This should work if the SQL Server has been configured properly. Press *Create Table* button to create tables in the database.

Introduction						
Configure Public URI	Configure Da	itabase				
🔶 Configure Database	By default, this Jazz Te choose a different date	eam Server in abase vendo	cludes a pre-configured database using a JDBC connection. You can either keep this default or r and/or connection type. If you change the default, you may need to configure some additional actions' buttop to verify that the larg Team Secure consumers of the communicate with the database.			
Enable E-mail Notification	using the connection i	nformation ye	nection button to verny that the Jazz Tearn Server can Successibility contributions are with the balabase ou provided.			
Register Applications	Step 1: Configure D	atabase Ver	ndor and Connection Type			
Setup User Registry	Database Vendor:	SQL Serve	er 💌			
Configure Data	Connection Type:	JDBC	×			
Warehouse	Step 2: Configure D	atabase Cor	nnection Properties			
▼ FINISH SETUP	Property		Current Value			
Summary	JDBC Password					
	The password of t	he JDBC	Default Value			
	substituted into the location value whe {password} is four	e JDBC ere nd.	none			
	JDBC Location		//localhost:1434:databaseName=its:user=rtcadmin:password={password}			
	The location of the	JDBC	Example: //localhost:1433;databaseName=jazz;user=jazzDBuser;password={password}			
	{password} instea	ne value ead of the Default Value				
	actual password.		none			
	Step 3: Create Data The specified datab required tables. Tab Create Tables	abase Tables ase exists bu	t there are no Jazz tables present. Please click the "Create Tables" button below to create the nay take a few minutes.			
	 The database exi Jazz. ID CRJAZ1 	sts, but is no 5671	t configured to contain Jazz. Use the "Create Tables" button in Step 3 to configure the database for			
			Restore to Saved Test Connection			
			< Back Next > Finish			

Image-14: Database configuration

Email Configuration

You can configure your SMTP server to send emails. You can also use your Gmail server to send emails. Image-15 shows the screenshot of email configuration using Gmail. You can read more about configuring Gmail as email server at following location - <u>https://jazz.net/forum/questions/26597/gmail-smtp-</u> configuration?redirect=%2Fforum%2Fquestions%2F26597%2Fgmail-smtpconfiguration

Press Test Connection button to verify connectivity SMTP Server.

roperty	Current Value		
SMTP Server The SMTP server for sending change notification e-mail, (e.g smtp.yourcompany.com)	smtp.gmail.com		
	Default Value		
	none		
SMTP Username The username used to authenticate to the SMTP server (if required).			
	Default Value		
	none		
SMTP Password			
he password used to uthenticate to the SMTP	Default Value		
erver (if required).	none		
-mail From Address			
he 'Sender:' e-mail address ent with notification e-mail, as	Default Value		
'jazz-user@ibm.com'.	none		
mail From Name	RTC Demo Server		
efines the name to use as ender of the notification e-	Default Value		
ails, as in 'jazz-user'.	none		
MTP Reply Address			
he 'Reply To:' e-mail address ent with notification e-mail. as	Default Value		
'jazz-user@ibm.com'.	none		
roperty	Current Value	Default Value	Description
MTP Server port	587	25	The SMTP server port.
SE STARTTLS	true 💌	false	Whether to issue a STARTTLS command before authentication or not.
3: Specify E-mail Notification nail notifications can be sent to	n Mailing List all recipients or to a spe	ecified group of recipients.	
strict E-mail Notification to: (N	o restriction) 💌		

Image-15: Email configuration

Application registration

This step is required to register the installed applications with Jazz Team Server. On this page you will have to verify and update the URLs of the applications. Image-16 shows the screenshot of this page.



Image-16: Application registration with Jazz Team Server

Setup user registry

Jazz team server relies on a user registry to provide basic information about users and groups. On this page you need to provide following information:

- Select the type of user registry you will use. You can choose one of the following three options:
 - 1. Tomcat user database
 - 2. LDAP
 - 3. Non-LDAP External registry
- Provide the user ID, name, password, and email address of the user who will have administrative access to the Jazz Team Server.
- Option to disable default admin access

Image-17 shows the screenshot of this page.

RATIONAL JAZZ TEAM SERVER (/jts)

- Introduction
- Configure Public URI
- 🖉 Configure Database
- Enable E-mail Notification
- Register Applications
- 🔶 Setup User Registry
- Configure Data
- CHANGE AND CONFIGURATION MANAGEMENT (/ccm)
- Configure Database
- Finalize Application
- Configure Data
- ♥ QUALITY MANAGEMENT (/qm)
- eeningste batabaee
- Thranze Application
- Configure Data
- _____
- REQUIREMENTS MANAGEMENT (/rm)
- Finalize Application
- LIFECYCLE PROJECT ADMINISTRATION (/adm



Value

admin

·----

Jazz Administrator

The default ADMIN user is defined in Jazz to allow you to log into a new server, configure the server, and create an initial JazzAdmins user. For enhanced server security we recommend that you disable default ADMIN access at this time.

Configure Data Warehouse

On this page you need to provide information to setup connection to a data warehouse. This database is used for reporting and analytics.

You need to first create the database with proper collation. You can use SQL Server Management Studio to first create the database and alter its collation. **Changing**

the collation of the database is an important step. You can use following query to change the collation of the database;

```
ALTER DATABASE <DatabaseName> COLLATE SQL_Latin1_General_CP437_CS_AS
GO
ALTER DATABASE <DatabaseName> SET READ_COMMITTED_SNAPSHOT ON
GO
```

Image-18 shows the screenshot of the data warehouse configuration page. On this

(i) Please complete the form to create a new user and press the 'Next' button.

external registry.

JazzAdmins role, which will allow you to log in to the Admin UI.

Jazz Team Server relies on a user registry to provide basic information about users and groups. You may choose one of these optior

groups for you with the Tomcat user database

This is the simplest configuration option and allows the Jazz Team Server to manage users and

If your organization uses LDAP to centrally manage users and groups and you have configured you application server and LDAP server as described in the server setup guide, choose this option and

If you wish to use an external registry other than LDAP, choose this option. Note that if you choose

this option you must manually create users in the Jazz Repository to correspond to the users in you

Description

typos

Your user ID (e.g. 'jsmith')

Your e-mail address (e.g. 'jsmith@example.com')

Your full name (e.g. 'John Smith')

Enter a password that you can remember

but won't be easy for others to guess.

Re-type your password to help prevent

the Jazz Team Server will use your LDAP server for user and group information

You are currently logged in as the default user (ADMIN). Please create an administrator account for yourself using the form below. When you press the "Next" button, the new user account will be created in the Jazz Team Server. Your new account will have the

Setup User Registry

Tomcat User

Non-LDAP External

Database

Reaistry

Step 1: Select the type of user registry you will use

User Registry Type Description

for your user reaistry:

•

C LDAP

 \mathbf{O}

Property

User ID

Name

Password

Re-type Password

E-mail Address

☑ Disable default ADMIN access

page you need to select database vendor as "SQL Server", connection type as "JDBC". In Step-2 you should provide connection details for SQL Server.

	Configure Data Ware	house
Configure Public URI	The data wavehaves is a database i	used for reporting and applitude. Buildefault this is a two configured database using a IDDO
🖌 Configure Database	connection. You can either keep this may need to configure some additio	default or reporting and analytics, by default, this is a pre-configured database or baing a 30 b c default or choose a different database vendor and/or connection type. If you change the default, you nal properties. Also if you change the default, use the "Test Connection" button to verify that the
 Enable E-mail Notification 	server can successfully communica	te with the database using the connection information you provided.
 Register Applications 	I do not wish to configure the da	ta warehouse at this time.
🖋 Setup User Registry	Database Vendor: SOL Server	se Database vendor and Connection Type
➡ Configure Data Warehouse	Connection Type: JDBC	
CHANGE AND CONFIGURATION	Step 2: Configure Data Warehous	se Database Connection Properties
MANAGEMENT (/ccm)	Property	Current Value
Configure Database	JDBC Password	
Finalize Application	The password of the JDBC database. This value will be	Default Value
Configure Data Warehouse	substituted into the JDBC location value where {password} is found.	none
	JDBC Location	//localhost:1434;databaseName=jtsDW;user=rtcadmin;password={password}
	database. Use the value	Example: //localhost:1433;databaseName=jazz;user=jazzDBuser;password={password}
Configure Database	{password} instead of the	Default Value
Finalize Application	actual passworu.	none
O autorium Diata	Database Table Space Folder	d:\Program Files (x86)\MSSQL10_50.SQLEXPRESS_32BIT\MSSQL\DATA
Warehouse	server where the table space	Default Value
REQUIREMENTS MANAGEMENT (/rm)	will be created. This folder must exist already and be valid for table space files for this vendor or data warehouse creation may fail.	none
- manze Application	Custom Report Database	rtcadmin
LIFECYCLE PROJECT	User	Default Value
ADMINISTRATION (/admin)	user to generate custom	RPTUSER
Finalize Setup	reporting permissions for. This user must exist in the	
FINISH SETUP	database.	
Summary	Step 3: Create Database Tables	

The specified database exists but there are no data warehouse tables present. Please click the "Create Tables" button below to create the required tables. Table creation may take a few minutes.

Create Tables

Image:-18: Configure Data Warehouse

Step 3: Create Database Tables The specified database exists but create the required tables. Table c Create Tables	there are no data warehouse tables reation may take a few minutes.	present. Please click the "Create Tables" button below to
Please use the form below to spec Repository it will be created and ha registry this will only create the cor collection jobs will use an automa	ify the user information for running t we the appropriate Client Access Lie tributor in the Repository, it will need ically created OAuth Consumer nam	the data collection jobs. If the user does not exist in the Jazz cense applied. If you are using an LDAP or external user d to match a user defined in your registry. If left blank, the data ned 'Jazz Reporting' with a Functional User ID of 'etl_user'.
Property	Value	Desription
User ID	admin	The user ID (e.g. 'etl_user')
Password		Enter a password that you can remember but won't be easy for others to guess.
Re-type Password	·····	Re-type your password to help prevent typos.
E-mail Address		Your e-mail address (e.g. 'etl_user@example.com')
 Test the settings to continue. 		Restore to Saved Test Connection
		< Back Next > Finish

Image:-19: Configure Data Warehouse

For the user that will run the data collection jobs, you must enter a different user ID than the ID you are using to configure the application. Press *Test Connection* button to test the connection. Press Create Table button to create tables and then press Next to proceed.

Application configuration

Based on the applications installed by you, there are three applications to be configured.

- 1. CCM Change and Configuration Management
- 2. QM Quality Management
- 3. RM Requirements Management

In addition to these three applications there is one more application to be configured: Lifecycle Project Administration (/admin).

Configuration of all these applications involves three steps:

- 1. Create database and change the collation
- 2. Finalize application
- 3. Configure Data Warehouse

Steps for application configuration are similar to that of Jazz Team Server. Image-20 to Image-29 are screenshots of these steps.

```
      SQLQuery3.sql...(rtcadmin (63))
      SQLQuery2.sql...rtcadmin (58))*
      SQLQuery1.sql...tcadmin (53))*

      --create new database jtsCCM

      ALTER DATABASE jtsCCM COLLATE SQL_Latin1_General_CP437_CS_AS

      GO

      ALTER DATABASE jtsCCM SET READ_COMMITTED_SNAPSHOT ON

      GO
```

Image-20: Configuring database collation for CCM database

RATIONAL JAZZ TEAM SERVER (/jts)

 CHANGE AND CONFIGURATION MANAGEMENT (/ccm)

🔶 Configure Database

Finalize Application

Configure Data Warehouse

QUALITY MANAGEMENT (/qm)

Configure Database

Finalize Application

Configure Data Warehouse

REQUIREMENTS MANAGEMENT (/rm)

Finalize Application

 LIFECYCLE PROJECT ADMINISTRATION (/admin)
 Finalize Setup

FINISH SETUP

Summary

① The database exists, but is not configured to contain Jazz. Use the "Create Tables" button in Step 3 to configure the database for Jazz. ID CRJAZ15671

Configure Database

By default, this application includes a pre-configured database using a JDBC connection. You can either keep this default or choose a different database vendor and/or connection type. If you change the default, you may need to configure some additional properties. Also use the "Test Connection" button to verify that the application can successfully communicate with the database using the connection information you provided.

Step 1: Configure Database Vendor and Connection Type
Database Vendor: SQL Server

Connection Type: JDBC

Property	Current Value
JDBC Password The password of the JDBC database. This value will be substituted into the JDBC location value where {password} is found.	
	Default Value
	none
JDBC Location The location of the JDBC database. Use the value {password} instead of the actual password.	//localhost:1434;databaseName=jtsCCM;user=rtcadmin;password={password}
	Example: //localhost:1433;databaseName=jazz;user=jazzDBuser;password={password
	Default Value
	none

Create Tables

① The database exists, but is not configured to contain Jazz. Use the "Create Tables" button in Step 3 to configure the database for Jazz. ID CRJAZ15671

Restore to Saved Test Connection

Image-21: Database Creation for CCM

RATIONAL JAZZ TEAM SERVER (/jts)	Finalize Application		
CHANGE AND CONFIGURATION MANAGEMENT (/ccm)	In order to finish the configuration of this application, there are a few operations that need to be completed. This step will provide feedback regarding the status of these operations. Once this step is complete, the application setup will be complete. Step 1: Initiate Finalization Process		
🖋 Configure Database			
🔶 Finalize Application	The finalization process is composed of two parts: Storing Consumer Key and Secret, and User Synchronization. To begin, click the hutton below		
Configure Data Warehouse	Finalize Application Setup		
▼ QUALITY MANAGEMENT (/qm)	Sten 2: View Progress		
Configure Database			
Finalize Application	Finish Registration		
Configure Data Warehouse	Now that this application's database has been configured, this operation will complete the application's registration with the Jazz Team Server.		
▼ REQUIREMENTS MANAGEMENT (//m)	Perform User Synchronization		
Finalize Application	This operation will synchronize the user records stored in the Jazz Team Server into this application.		
 LIFECYCLE PROJECT ADMINISTRATION (/admin) 			
Finalize Setup			
▼ FINISH SETUP			
Summary			
	< Back Next > Finish		

Image-22: Application finalization for CCM

Step 1: Configure Data Warehous	e Database Vendor and Connection Type	
Database Vendor: SQL Server	V	
Connection Type: JDBC	T	
Ctau 2: Caufanna Data Waashana	- Natabase Convertion Descertion	
Step 2: Configure Data Warehous	e Database Connection Properties	
Property	Current Value	
JDBC Password		
database. This value will be	Default Value	
substituted into the JDBC location value where {password} is found.	none	
JDBC Location	//localhost:1434;databaseName=jtsCCMDW;user=rtcadmin;password={password}	
The location of the JDBC database. Use the value	Example: //localhost:1433;databaseName=jazz;user=jazzDBuser;password={password}	
{password} instead of the	Default Value	
actual password.	none	
Database Table Space Folder	d:\Program Files (x86)\MSSQL10_50.SQLEXPRESS_32BIT\MSSQL\DATA1	
server where the table space	Default Value	
will be created. This folder must exist already and be valid for table space files for this vendor or data warehouse creation may fail.	none	
Custom Report Database	rtcadmin	
User The name of the database	Default Value	
user to generate custom reporting permissions for. This user must exist in the database.	RPTUSER	
Step 3: Create Database Tables		

The specified database exists but there are no data warehouse tables present. Please click the "Create Tables" button below to create the required tables. Table creation may take a few minutes.

Create Tables

Image-23: Data Warehouse configuration for CCM

```
      SQLQuery3.sql...(rtcadmin (63))
      SQLQuery2.sql...rtcadmin (58))*
      SQLQuery1.sql...tca

      --create new database jtsQM

      ALTER DATABASE jtsQM COLLATE SQL_Latin1_General_CP437_CS_AS

      GO

      ALTER DATABASE jtsQM SET READ_COMMITTED_SNAPSHOT ON

      GO
```

Image-24: Update database collation for Quality Management

(i) Database tables are being created. This may take a few minutes...

Configure Database

I

By default, this application includes a pre-configured database using a JDBC connection. You can either keep this default or choose a different database vendor and/or connection type. If you change the default, you may need to configure some additional properties. Also use the "Test Connection" button to verify that the application can successfully communicate with the database using the connection information you provided.

Property	Current Value	
JDBC Password	******	
The password of the JDBC database. This value will be	Default Value	
substituted into the JDBC location value where {password} is found.	none	
JDBC Location	//localhost:1434;databaseName=jtsQM;user=rtcadmin;password={password}	
The location of the JDBC	Example: //localhost:1433;databaseName=jazz;user=jazzDBuser;password={password}	
{password} instead of the	Default Value	
actual password.	none	
ep 3: Create Database Tables he specified database exists bu equired tables. Table creation m	t there are no Jazz tables present. Please click the "Create Tables" button below to create the hay take a few minutes.	

Image-25: Database configuration for Quality Management

	Current Value	
JDBC Password		
The password of the JDBC database. This value will be	Default Value	
substituted into the JDBC	pope	
ocation value where password} is found.		
IDBC Location	//localhost:1434;databaseName=jtsQMI	DW;user=rtcadmin;password={password}
The location of the JDBC	Example: //localhost:1433;databaseNan	ne=jazz;user=jazzDBuser;password={password}
password} instead of the	Default Value	
actual password.	none	
Database Table Space Folder	d:\Program Files (x86)\MSSQL10_50.SQ	QLEXPRESS_32BIT\MSSQL\DATA2
The tolder on the database server where the table space	Default Value	
vill be created. This folder	none	
must exist already and be valid		
endor or data warehouse		
reation may fail.		
Custom Report Database	rtcadmin	
The name of the database	Default Value	
user to generate custom	RPTUSER	
eporting permissions for. This user must exist in the		
jatabase.		
ep 3: Create Database Tables		
p 3: Create Database Tables ne specified database exists but eate the required tables. Table c Create Tables	there are no data warehouse tables prese reation may take a few minutes.	nt. Please click the "Create Tables" button below to
ep 3: Create Database Tables ne specified database exists but eate the required tables. Table c Create Tables ease use the form below to spec Il use an automatically created C	there are no data warehouse tables prese reation may take a few minutes. :ify the user information for running the dat :Auth Consumer named 'Jazz Reporting' w	nt. Please click the "Create Tables" button below to a collection jobs. If left blank, the data collection jobs ith a Functional User ID of 'etl_user'.
ep 3: Create Database Tables he specified database exists but eate the required tables. Table c Create Tables ease use the form below to spec Il use an automatically created C Property	there are no data warehouse tables prese reation may take a few minutes. If the user information for running the dat Auth Consumer named 'Jazz Reporting' w Value	nt. Please click the "Create Tables" button below to a collection jobs. If left blank, the data collection job ith a Functional User ID of 'etl_user'. Desription
p 3: Create Database Tables he specified database exists but eate the required tables. Table c Create Tables ease use the form below to spec II use an automatically created C Property Jser ID	there are no data warehouse tables prese reation may take a few minutes. :ify the user information for running the dat :Auth Consumer named 'Jazz Reporting' w Value admin	nt. Please click the "Create Tables" button below to a collection jobs. If left blank, the data collection job ith a Functional User ID of 'etl_user'. Desription The user ID (e.g. 'etl_user')
ep 3: Create Database Tables the specified database exists but eate the required tables. Table c Create Tables ease use the form below to spec Il use an automatically created C Property User ID Password	there are no data warehouse tables prese reation may take a few minutes. :ify the user information for running the dat :Auth Consumer named 'Jazz Reporting' w Value admin	nt. Please click the "Create Tables" button below to a collection jobs. If left blank, the data collection job ith a Functional User ID of 'etl_user'. Desription The user ID (e.g. 'etl_user') Enter a password that you can rememb but won't be easy for others to guess.
p 3: Create Database Tables he specified database exists but eate the required tables. Table c Create Tables ease use the form below to spec Il use an automatically created C Property Jser ID Password Re-type Password	there are no data warehouse tables prese reation may take a few minutes. Ify the user information for running the dat Auth Consumer named 'Jazz Reporting' w Value admin	nt. Please click the "Create Tables" button below to a collection jobs. If left blank, the data collection jobs ith a Functional User ID of 'etl_user'. Desription The user ID (e.g. 'etl_user') Enter a password that you can rememb but won't be easy for others to guess. Re-type your password to help prevent typos.

Image-26: Data Warehouse configuration for admin application

CHANGE AND CONFIGURATION MANAGEMENT (/ccm)	Finalize Application
QUALITY MANAGEMENT (/am)	
	in order to finish the configuration of this application, there are a few operations that need to be completed. This step will provide feedback regarding the status of these operations. Once this step is complete, the application setup will be complete. You may click
MANAGEMENT (/rm)	"Next" to continue.
🔶 Finalize Application	Step 1: Initiate Finalization Process
 LIFECYCLE PROJECT ADMINISTRATION (/admin) 	The finalization process is composed of three parts: applying an internal license, configuring storage on the Jazz Team Server and building indexed data. To begin, click the button below.
Finalize Setup	Finalize Application Setup
▼ FINISH SETUP	Ston 2: Rehuild Indexed Data Onk/ (Ontional)
Summary	
	The Jazz Team Server maintains an index of the data. To begin rebuilding the index, click the button below.
	Rebuild Index
	Step 3: View Progress
	Apply Internal License
	The application uses a preauthorized user to communicate with the Jazz Team Server. This user must have an internal license for the application to operate.
	👝 Configure Storage on the Jazz Team Server
	The application stores user data on the Jazz Team Server. In order to store data, the application must configure storage on the Jazz Team Server. This operation also creates the data necessary for the
	application to function.
	Rebuild Indexed Data
	This operation will rebuild an index of the data on the Jazz Team Server. Depending on the amount of data stored on the Jazz Team Server, the index rebuild can take several minutes. While the index rebuild is active, using the application can result in unexpected behavior and is not recommended.
	Finalization is in progress. This can take a few minutes

Image-27: Requirement Management Application finalization

- RATIONAL JAZZ TEAM SERVER (/jts)
- CHANGE AND CONFIGURATION MANAGEMENT (/ccm)
- QUALITY MANAGEMENT (/qm)
- REQUIREMENTS MANAGEMENT (/rm)
- LIFECYCLE PROJECT ADMINISTRATION (/admin)

🔶 Finalize Setup

FINISH SETUP
 Summary

Finalize Setup

In order to finish the configuration of this application, there are a few operations that need to be completed. This step will provide feedback regarding the status of these operations. Once this step is complete, the application setup will be complete. You may click "Next" to continue.

(i) Please wait while the application is being finalized. This may take a minute.

Step 1: Initiate Finalization Process

The finalization process is composed several steps including LPA license assignment, application linking, storage area creation, and default template deployment. To begin, click the button below.

Finalize Application Setup

Step 2: View Progress

👩 Apply Internal License

The application uses a preauthorized user to communicate with the Jazz Team Server. This user must have an internal license for the application to operate.

👩 Create Storage Areas

The application stores user data on the Jazz Team Server. In order to store data, the application must configure storage on the Jazz Team Server.

Link Applications

Now that all the applications have registered with the Jazz Team Server, the applications must be linked together so they can communicate with one another. Linking applications enables project area linking between applications as well as other cross-application communication.

👝 🛛 Deploy Templates

There are a number of predefined templates available in the Lifecycle Project Administration application. Deploying the predefined templates will make some default templates available which can then be used for lifecycle project creation.

Image-28: Admin application finalization

TEAM SERVER &	APPLICATION SETUP		
RATIONAL JAZZ TEAM SERVER (/jts)	Congratulations, you have successfully completed page, or select Create Users or Create a Lifecycle	the setup. Click Finish t Project to get started wi	to go to the Jazz Team Server Administration Home th one of those tasks right away.
CHANGE AND CONFIGURATION MANAGEMENT (/ccm)	Summary		
QUALITY MANAGEMENT (/qm)	Jazz Team Server Setup		
REQUIREMENTS MANAGEMENT (/m)	Database Configuration		sqlserver connection successfu
	Public URL		https://pasdm.aaa.saama.com/jt
PLIFECYCLE PROJECT ADMINISTRATION (/admin)	E-mail Notification		Enable
	User Registry		DETEC
	Registered Applications		4 Applications registere
	Data Warehouse Configuration		sqlserver connection successfu
	We recommend that you visit the Jazz Team Serv	ver Administration site to	complete the next steps to get your project started:
	1. Create Users		2. Create a Lifecycle Project
	Create users in the Jazz Team Server and continue to manage them from within this single source.	OR	Create a project within Project Administration to manage relationships across the lifecycle.
	You may also skip these steps and go to the Jazz Team Server Administration "Home" page where these options will also be available, or browse the complete Jazz Tutorial to take a tour of some of the major Jazz components.		
			< Back Next > Finish

Image-29: Summary of Jazz Team Server Setup

This completes the installation and configuration of RTC 3.0.1.2 Server on Windows Server 2008 R2 with SQL Server 2008 R2. You can now start using the RTC Server.