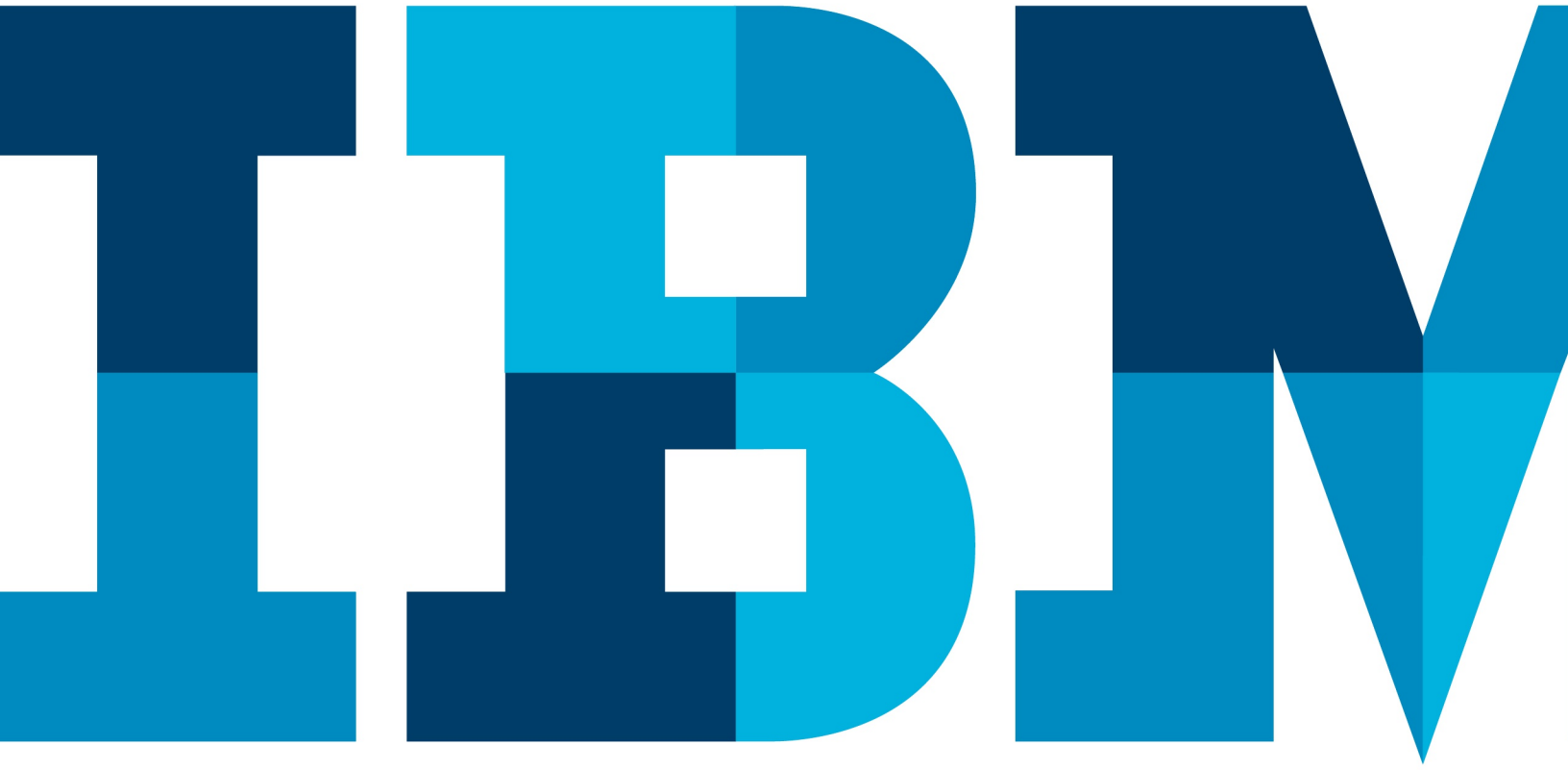
IBM Rational Team Concert Enterprise Extensions Build Administration Workshop

Version 1.0
Installation Instructions



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Installation instructions for the Rational Team Concert V4.0 Enterprise Extensions Build Administration Workshop

This preparation document will take you through the setup of the infrastructure required to complete the EE Build Administration Workshop. The necessary components can be downloaded from https://jazz.net/downloads/. Note that instead of a step-by-step installation and configuration walk-through, reference information will be provided to guide you through these tasks.

The necessary workshop infrastructure can be either:

a) An existing Rational Team Concert installation. In this case, you can use this document to make sure that all the components needed for the workshop are installed, and you have expected users and licenses available in your environment.

b) A new installation. This document provides you with reference information for this task.

Keep in mind that the outlined steps are a one-time setup and would likely be executed by a system administrator (product install and configuration). This role is distinctly separate from the role of the EE Build Administrator, which is the focus of the this workshop.

Using an existing environment?

Make sure your Jazz user for the workshop has the needed license assigned (IBM Enterprise Platforms license) in your CLM server environment, and take note of your build environment details to be used in the workshop:

- z/OS build machine hostname
- Build agent port
- TSO ID and password for connection to build agent
- ISPF Gateway startup script location

The sections and topics covered in this document are the following:

1. Install the Jazz Team Server and CCM application (other CLM applications are optional)
2. Install and configure the Build System Toolkit and Rational Build Agent on z/OS
3. Configure the ISPF gateway for promotion, packaging, and deployment
4. Install the Rational Team Concert eclipse client

5. (Optional) Verify your installation using BLZIVP.rex

1. Install the Jazz Team Server and CCM application

Follow the help in the Information Center to install and configure the Jazz Team Server and CCM application. The other CLM applications may optionally be installed for your exploration, but they will not be used in this workshop.

Remember it is NOT required that you place your Jazz Team Server or your CCM application on z/OS to support mainframe development.

Interactive installation guide for distributed platforms:
http://pic.dhe.ibm.com/infocenter/clmhelp/v4r0/topic/com.ibm.jazz.install.doc/topics/roadmap_form.html

Instructions for installing and configuring the Jazz Team Server and CLM products on z/OS:
http://pic.dhe.ibm.com/infocenter/clmhelp/v4r0/index.jsp?topic=%2Fcom.ibm.jazz.install.doc%2Ftopics%2Fc_rtcz_install_zos_overview.html

Once you have installed your CLM solution components, complete the Jazz Team Server and Application Setup by navigating to https://*your_host_name*:9443/jts/setup in your web browser and log in as ADMIN/ADMIN. Take all defaults and create a user ID for yourself as described below.

Leave the Jazz Team Server running for the remainder of the workshop.

Create required users

You will need to create a user ID for yourself as the EE build administrator. Assign yourself a Developer for IBM Enterprise Platforms license and grant yourself JazzProjectAdmins repository permissions.

You will also need to create a functional user ID for your build. Name the ID “build”, assign a Rational Team Concert – Build System license, and grant JazzUsers repository permissions. If a build agent is being provided to you, create a user with the ID/password provided.

JazzProjectAdmins role need

The role of JazzProjectAdmins is needed to create the two project areas used during the workshop. In a real world scenario, this task may be completed by someone other than the build administrator. In that case, your EE build administrator would be assigned JazzUsers repository permissions.

2. Install and configure the Build System Toolkit and Rational Build Agent on z/OS

The Build System Toolkit and Rational Build Agent are used to perform dependency builds, promotions, packagings, and deployments on z/OS.

Follow the help in the Information Center to install and configure the Build System Toolkit and Rational Build Agent on z/OS:

- Installing and configuring the Build System Toolkit on z/OS: http://pic.dhe.ibm.com/infocenter/clmhelp/v4r0/topic/com.ibm.jazz.install.doc/topics/t_rtcz_install_build_toolkit_smpe.html

- Installing and configuring the Rational Build Agent on z/OS: http://pic.dhe.ibm.com/infocenter/clmhelp/v4r0/topic/com.ibm.jazz.install.doc/topics/BF_setup_TOP.html

When configuring the Rational Build Agent startbfa.sh shell script, specify the build functional user ID you created above as JAZZ_USER.

3. Configure the ISPF gateway for promotion, packaging, and deployment

Rational Team Concert invokes the ISPF gateway to perform promotion, packaging, and deployment. You therefore must customize your ISPF concatenations to include the RTC product load library (hlq.SBLZLOAD) and product message library (hlq.SBLZMENU).

Follow the help in the Information Center to configure the ISPF Gateway for promotion, packaging, and deployment:

http://pic.dhe.ibm.com/infocenter/clmhelp/v4r0/topic/com.ibm.jazz.install.doc/topics/c_rtcz_customize_ispfgateway.html

4. Install the Rational Team Concert eclipse client

You will need a Rational Team Concert eclipse client in order to complete the workshop. You can install Rational Team Concert in the same Installation Manager installation as Rational Developer for System z, but RDz is not required for the workshop.

Follow the help in the Information Center to install the RTC eclipse client.

http://pic.dhe.ibm.com/infocenter/clmhelp/v4r0/topic/com.ibm.jazz.install.doc/topics/t_client_installation.html

Rational Team Concert client and RDz compatibility

You can check the compatibility between the Rational Team Concert client and Rational Developer for System Z for shell sharing as well as considerations when upgrading your CLM solution in this blog post.

5. (Optional) Verify your installations with BLZIVP

Run the installation verification program included with this workshop, BLZIVP.rex, and review the output. Following is a sample JCL indicating the values that must be provided to the IVP:

```
//BLZIVP   JOB CLASS=A,MSGCLASS=X,NOTIFY=&SYSUID
//*
//*
//RUNREXX EXEC PGM=IKJEFT01,DYNAMNBR=400,COND=(0,LT)
//SYSTSIN   DD *
BLZIVP
//CONF      DD PATH='/etc/jazz/ccm'
//WORK      DD PATH='/u/jazz/'
//SYSTSPRT  DD SYSOUT=*
//SYSEXEC   DD DSN=JAZZ00.RTCZV3.EXEC,DISP=SHR
```

Note that CONF and WORK must be set to the directory path to your Rational Build Agent configuration file directory and your Jazz Team Server working directory.

Not quite sure what to do with this IVP?

Add the sample JCL to the *hlq*.SBLZSAMP sample data set that was installed with RTC (or another JCL data set you have access to). Add the REXX to an existing REXX PDS or create a new one. You can easily create a data set for REXX source using the RDz Allocate Partitioned Data Set wizard, or use ISPF 3.2 if RDz is not available. Update the SYSEXEC line in the sample JCL to reflect the location of your REXX data set. If you are using RDz, navigate to the JCL member in the Remote Systems view, right click and choose Submit. Otherwise, use ISPF 3.4 to navigate to the JCL and choose the Submit option. Use the Job Monitor in RDz or SDSF to review the output.

Summary

You now have a proper Rational Team Concert server, Rational Team Concert client, and z/OS build environment. Continue on to the “Workshop setup and preparation” section of the workshop lab manual for initial setup steps to be performed in preparation for the labs.

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