# WebSphere Business Monitor V6.2 – Configuring a remote CEI server

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## What this exercise is about

The objective of this lab is to provide instructions for installing WebSphere Business Monitor V6.2 as a standalone server, then configuring it to use a remote CEI server which is installed on a second machine.

To enable the WebSphere® Business Monitor server to manage a remote CEI event server, you must install support files into the installation folder of the remote CEI server. If the CEI server is in a different cell than the WebSphere Business Monitor server, these tasks guide you through the configuration to enable the remote system to send events to WebSphere Business Monitor.

## Lab requirements

List of system and software required for the student to complete the lab:

- WebSphere Business Monitor V6.2 which includes
  - WebSphere Application Server V6.1.0.21
  - Alphablox V9.5
- WebSphere Process Server V6.2
- DB2 ESE V9.5
- You should have two machines, or you may use just one machine if it has sufficient memory to allow starting two stand-alone servers simultaneously.

## What you should be able to do

At the end of this lab you should be able to do the following:

- Install DB2 on machine 1.
- Install WebSphere Business Monitor on machine 1.
- Install WebSphere Process Server on machine 2.
- Configure single sign-on and SSL on both machines.
- Copy the crosscell JAR's to the remote server and register the plug-ins.
- Run the queue bypass scripts on the remote server and test the JDBC connection.
- Deploy a monitor model to the monitor server.
- Submit events on the remote server.
- Verify that monitoring context instances are created.

## Introduction

To enable the WebSphere® Business Monitor server to manage a remote CEI event server, you must install support files into the installation folder of the remote CEI server. If the CEI server is in a different cell than the WebSphere Business Monitor server, then you must change the configuration to enable the remote system to send events to WebSphere Business Monitor. The remote server can be WebSphere Process Server 6.1, WebSphere Process Server 6.2, or WebSphere Application Server 6.1.

For WebSphere Business Monitor version 6.2, there are two options for receiving events, "Queued" and "Queue Bypass".

In previous releases, only the queued option was available and you would use the crosscell scripts to create an SI bus link which would create the connection between the buses on the two servers.

In this release, queue bypass is a new method for the consumption of events from the CEI server into the server Moderator for a monitoring model. Event flow skips the monitoring model's JMS queue and instead places all events directly into the monitoring model's event database table. This will increase server throughput.

This lab will show you how to install DB2 and a stand-alone monitor server onto machine 1. Then you will install a stand-alone process server on machine 2. Then you will configure the queue bypass connection.

You will not need an LDAP server since you will use the built-in VMM file based repositories.

## Part 1: Install DB2 on machine 1

- 1. Activate the license.
  - \_\_\_\_a. Unzip your activation zip to <DB2License> folder. An example of the license file is DB2\_ESE\_Auth\_User\_Activation\_V95.zip.
  - \_\_\_\_b. Copy the 'db2' folder in <DB2License> to the 'db2' folder in the DB2 image folder <DB2Image>.
  - \_\_\_\_ c. The DB2 installer will use this information to activate the license.
  - \_\_\_\_\_d. As an alternative, you could also wait until DB2 is installed, then open the DB2 control center, then select Tools > License center > select the system name in the drop down > License > Add > Browse to <DB2License>\db2\license\db2ese\_u.lic > Ok.
- 2. Run setup.exe in <DB2Image> to start the DB2 installer. Specify the following options in the wizard:
  - \_\_\_\_a. Specify typical installation type.
  - \_\_\_\_b. You do not need to specify a response file.
  - \_\_\_\_ c. The default installation path is acceptable: \ibm\sqllib.
  - \_\_\_\_\_d. For user information, you do not need to specify a domain.
  - \_\_\_\_e. Enter a user and password. In this example the user is db2admin and the password is db2admin.
  - \_\_\_\_f. You do not need to prepare the DB2 tools catalog.
  - \_\_\_\_g. You do not need to setup notification.
  - \_\_\_h. Operation system security is not required.
- 3. See the appendix for a series of screen captures for the installation process.

## Part 2: Install monitor server on machine 1

- 1. To install the supporting software properly, make sure that your folder structure is correct for the Monitor install image.
  - \_\_\_a. The Alphablox install.exe should be located in <MonitorImage>\ABX\Windows\.
  - \_\_\_b. The WebSphere Application server install.exe should be located in <MonitorImage>\WAS\.
- \_\_\_\_ 2. Install a stand-alone Monitor server.
  - \_\_\_\_a. Run Launchpad.exe in <MonitorImage>.
  - \_\_\_\_b. Use the following options in the wizard:
    - 1) Select basic installation type.
    - 2) Specify a short path for the installation, such as c:\MonServer62.
    - 3) Enable administrative security, specifying a user and password. In this example the user is admin and the password is admin.
    - 4) You do not need to configure human tasks.
    - 5) For the database configuration, specify DB2 Universal Database. Select the option to create a local database. Provide a database name and schema name. In this example the database and schema names are MON62.
    - 6) Enter your DB2 user and password, and select JDBC driver type 4.
    - 7) See the appendix for a series of screen captures for the installation process.
- \_\_\_\_\_ 3. Make a backup of your monitor server profile.
  - \_\_\_\_a. For example, copy C:\MonServer62\profiles\WBMon01 to a backup folder.
- \_\_\_\_\_4. Start the server.
  - \_\_\_\_a. Programs > IBM WebSphere > Business Monitor 6.2 > Profiles > WBMon01 > Start the server.
  - \_\_\_\_ 5. Check the SystemOut.log for any errors.
    - \_\_\_a. For example, look in C:\MonServer62\profiles\WBMon01\logs\server1\SystemOut.log.
- 6. Log into the administrative console, to verify that it works properly.
  - \_\_\_\_a. For example, open this URL: <u>https://localhost:9043/ibm/console</u>

## Part 3: Install process server on machine 2

- Install a stand-alone process server. You will not need DB2 for this installation since Derby will be used.
  - \_\_\_a. Run Launchpad.exe in <WPSImage>.
  - \_\_\_\_b. Use the following options in the wizard:
    - 1) If you already have an application server on the machine, you will be prompted to use it or create a new server. Select the option to create a new application server.
    - 2) Select typical installation type.
    - 3) You do not need to load the samples.
    - 4) Enter a short path for the installation such as \ProcServer62.
    - 5) For the environment, select stand-alone server.
    - 6) Enable administrative security and enter the user and password. In this example the user is admin and the password is admin.
    - 7) See the appendix for a series of screen captures for the installation process.
- \_\_\_\_\_2. Make a backup of your process server profile.
  - \_\_\_\_a. For example, copy C:\ProcServer62\profiles\ProcSrv01 to a backup folder.
- 3. Start the server.
  - \_\_\_\_a. Programs > IBM WebSphere > Process Server 6.2 > Profiles > ProcSrv01 > Start the server.
- 4. Check the SystemOut.log for any errors.
  - \_\_\_a. For example, look in C:\ProcServer62\profiles\ProcSrv01\logs\server1\SystemOut.log.
- 5. Log into the administrative console, to verify that it works properly.
  - \_\_\_\_a. For example, open this URL: <u>https://localhost:9043/ibm/console</u>

## Part 4: Configure single sign-on and SSL on monitor server on machine 1

- \_\_\_\_1. Configure 'Single Sign-on' on monitor server on machine 1.
  - \_\_\_\_a. In the administrative console, navigate to Security > Secure administration, applications and infrastructure > Authentication > Web security > click the 'Single sign-on (SSO)' link
  - \_\_\_\_b. In the 'Single sign-on (SSO)' panel, do the following:
    - 1) Select the check box for 'Enabled'
    - 2) Ensure the check box for 'Requires SSL' is NOT selected
    - 3) Enter your domain name, such as ibm.com
    - 4) Select the check box for 'Interoperability Mode'
    - 5) Clear the check box for 'Web bound security attribute propagation'
    - 6) Click OK.
  - \_\_\_\_ c. Click to save the configuration.
  - \_\_\_\_\_d. On the Secure administration, applications and infrastructure page, find the Authentication section, then click the link 'Authentication mechanisms and expiration'
    - 1) Enter a password such as 'monitor' and the same for the confirm password
    - 2) Enter the key file name such as 'C:\monitor.key'
    - 3) Click the 'Export Keys' button. This action exports a key file to the specified location.
    - 4) Click Ok
  - \_\_\_\_e. Click to save the configuration.
- 2. Setup SSL on monitor server on machine 1.
  - \_\_\_\_a. In the administrative console, navigate to Security > SSL certificate & key management > Key stores & certificates
  - \_\_\_b. Click NodeDefaultTrustStore > Signer certificates > Retrieve from port
  - \_\_\_\_ c. For the host name, enter the remote CEI server machine name. For example, aimcp096.austin.ibm.com.
  - \_\_\_\_ d. Enter the remote server port. For example, 8880
    - 1) You can verify the remote port by logging into the remote server administrative console and navigating to Servers > Server1 > Ports.
  - \_\_\_\_e. Enter the alias as wps62

#### \_\_\_\_f. Click to retrieve signer information.

Retrieved signer information
Serial number
81543256427842
Issued to
CN=aimcp096.austin.ibm.com, O=IBM, C=US
Issued by
CN=aimcp096.austin.ibm.com, O=IBM, C=US
Fingerprint (SHA digest)
CE:28:52:AB:38:45:04:1A:4B:EB:A3:C5:A5:72:4A:5A:7A:47:91:6A
Validity period
November 14, 2023

- \_\_\_ g. Click Ok.
- \_\_\_\_h. Click to save the configuration.
- \_\_ i. In the administrative console, navigate to Security > SSL certificate & key management > Manage endpoint security configuration.
- \_\_\_\_j. For the inbound event node, navigate to Inbound > <yourCell> > nodes > then click the node link
- 🗆 Inbound

 WSBETA147Node01Cell
 nodes
 WSBETA147Npde01(NodeDefaultSSLSettings,default)
 servers ()
 MONITOR.WSBETA147Node01Cell.Bus CommonEventInfrastructure\_Bus

\_\_\_\_k. Make sure you have the default SSL configuration and the default alias:

Specific SSL configuration for this	endpoint –
SSL configuration	Und
NodeDefaultSSLSettings 💌 🛛	Opu
Certificate alias in key store default 💌	

I. For the inbound event node server, navigate to Inbound > <yourCell> > nodes > <yourNode> > servers > then click the server1 link

🗆 Inb	ound	
E١	WSBETA147Node01Cell	
I	🗆 🛅 nodes	
	🗆 🗗 🍘 WSBETA147Node01(NodeDefaultSSL	<u>.Settings,null)</u>
	🖻 🚘 servers	
	🖽 🎲 <u>senver1</u>	
	MONITOR.WSB A147Node01Cell.Bus	
	CommonEventInfrastructure Bus	
		Specific SSL configuration for this endpoint
		$\Box$ Override inherited values
		SSL configuration NodeDefaultSSLSettings 💌 Up
		Certificate alias in key store

\_\_\_\_m. Make sure that override is unchecked:

(none) 💌

- \_\_\_\_n. Perform the same checks and updates for the outbound event node and server.
- \_\_\_\_o. Save the configuration.
- \_\_\_\_ p. Restart the server.
- \_\_\_\_q. Check SystemOut.log for errors.

## Part 5: Configure single sign-on and SSL on process server on machine 2

- 1. Copy the monitor.key file from machine 1 to machine 2. In this example it is copied to machine 2 at location C:\monitor.key.
- 2. Configure 'Single Sign-on' on process server on machine 2.
  - \_\_\_\_a. In the administrative console, navigate to Security > Secure administration, applications and infrastructure > Authentication > Web security > click the 'Single sign-on (SSO)' link
  - \_\_\_\_b. In the 'Single sign-on (SSO)' panel, do the following:
    - 1) Select the check box for 'Enabled'
    - 2) Ensure the check box for 'Requires SSL' is NOT selected
    - 3) Enter your domain name, such as ibm.com
    - 4) Select the check box for 'Interoperability Mode'
    - 5) Clear the check box for 'Web bound security attribute propagation'
    - 6) Click OK.
  - \_\_\_\_ c. Click to save the configuration.
  - \_\_\_\_\_d. On the Secure administration, applications and infrastructure page, find the Authentication section, then click the link 'Authentication mechanisms and expiration'
    - 1) Enter a password such as 'monitor' and the same for the confirm password
    - 2) Enter the key file name such as 'C:\monitor.key'
    - 3) Click the 'Import Keys' button.

Ξ	Messages
	${f II}$ The keys were successfully imported from the file c:\monitor.key.
	<ul> <li>Changes have been made to your local configuration. You can:</li> <li><u>Save</u> directly to the master configuration.</li> </ul>
	• <u>Review</u> changes before saving or discarding.
	$\Delta$ The server may need to be restarted for these changes to take effect.

#### 4) Click Ok

\_\_\_\_e. Click to save the configuration.

- \_\_\_\_ 3. Setup SSL on process server on machine 2.
  - \_\_\_\_\_a. In the administrative console, navigate to Security > SSL certificate & key management > Key stores & certificates
  - \_\_\_b. Click NodeDefaultTrustStore > Signer certificates > Retrieve from port
  - \_\_\_\_ c. For the host name, enter the monitor server machine name. For example, wsbeta147.austin.ibm.com.
  - \_\_\_\_ d. Enter the remote server port. For example, 8880

- 1) You can verify the monitor server port by logging into the monitor server administrative console and navigating to Servers > Server1 > Ports.
- \_\_\_\_e. Enter the alias as mon62
- \_\_\_\_\_f. Click to retrieve signer information.

Retrieved signer information	
Serial number	
68251877823840	
Issued to	
CN=WSBETA147.austin.ibm.com, O=IBM, C=US	
Issued by	
CN=WSBETA147.austin.ibm.com, O=IBM, C=US	
Fingerprint (SHA digest)	
FC:30:8E:06:18:AE:9E:33:F9:1F:79:D1:F8:7D:56:EC:CC:27:AC:EF	
Validity period	
November 14, 2023	

- \_\_\_ g. Click Ok.
- \_\_\_\_h. Click to save the configuration.
- \_\_\_\_i. In the administrative console, navigate to Security > SSL certificate & key management > Manage endpoint security configuration.
- \_\_\_\_j. For the inbound event node, navigate to Inbound > <yourCell> > nodes > then click the node link
- \_\_\_\_k. Make sure you have the default SSL configuration and the default alias:



\_\_\_\_I. For the inbound event node server, navigate to Inbound > <yourCell> > nodes > <yourNode> > servers > then click the server1 link



- \_\_\_ m. Make sure that override is unchecked:
- \_\_\_\_n. Perform the same checks and updates for the outbound event node and server.
- \_\_\_\_ o. Save the configuration.
- \_\_\_\_ p. Restart the server.
- \_\_\_\_ q. Check SystemOut.log for errors.

## Part 6: Copy crosscell jar files to the remote server on machine 2

- From the <was\_root>/scripts.wbm/crosscell folder of the local Business Monitor server installation, copy the mon61to61CrossCell.zip file to the <wps\_root>/plugins folder of the remote CEI server and extract the contents.
- \_\_\_\_\_2. Stop the remote server.
- 3. From the remote CEI server's <wps\_root>/Profiles/<profile>/bin folder, run the command to configure the process server to recognize the new plugin jar files that were extracted into the plugins directory in the previous steps: osgiCfgInit.bat
- \_\_\_\_\_ 4. Start the remote server.

## Part 7: Run the queue bypass scripts on the remote server on machine 2

- 1. From the <was\_root>/scripts.wbm/queuebypass folder of the local Business Monitor server installation, copy all files in this folder to the <wps\_root>/bin folder of the remote CEI server.
- 2. From the <wps\_root>\bin folder of the remote CEI server, run configQueueBypass.bat. Here is a sample. You will need to substitute the correct cell name of your monitor server, and you need to substitue the correct server name. Note that if you try to copy and paste from here to the command line on your server, the dashes may not copy properly, so you may need to overtype them.

```
configQueueBypass.bat -profilePath c:\ProcServer62\profiles\ProcSrv01
-remoteCellName WSBETA147Node01Cell -dbType "DB2_Universal" -
dbDriverType "4" -dbJdbcClasspath
c:\ProcServer62\universalDriver_wbi\lib -dbServerName
wsbeta147.austin.ibm.com -dbPort 50000 -dbName MON62 -dbUserId
db2admin -dbPassword db2admin
```



\_\_\_\_3. Check the configQueueBypass.log in the same folder for any errors.



\_\_\_\_\_4. Check that the data source was created.

\_\_\_\_a. On the remote server's administrative console, navigate to Resources > JDBC > Data sources. You should see the routing database entry in the list.

Monitor WSBETA147Node01Cell Routing Database	jdbc/wbm/WSBETA147Node01Cell /MonitorDatabase	Cell=aimcp096Node02Cell

\_\_ 5. From the <wps\_root>\bin folder of the remote CEI server, run setupQueueBypass.bat. Here is a sample. You will need to substitute the correct cell and node names of your remote CEI server. Note that if you try to copy and paste from here to the command line on your server, the dashes may not copy properly, so you may need to overtype them.

setupQueueBypass.bat -wasHome c:\ProcServer62 -profileName ProcSrv01 profilePath c:\ProcServer62\profiles\ProcSrv01 -cellName aimcp096Node02Cell
-nodeName aimcp096Node03



- \_\_\_\_\_ 6. Restart both servers.
- \_\_\_\_\_7. Test the JDBC connection.
  - \_\_\_\_a. On the remote server's administrative console, navigate to Resources > JDBC > Data sources.
  - \_\_\_\_b. Click the 'Monitor <yourCell> Routing Database' in the list.
  - \_\_\_\_ c. Click the button 'Test connection'.

#### 🖯 Messages

```
The test connection operation for data source
Monitor_WSBETA147Node01Cell_Routing_Database on server server1 at node
aimcp096Node03 was successful.
```

## Part 8: Install the Clips And Tacks BAM monitor model on the monitor server on machine 1

- On monitor server's administrative console, install the Clips and tacks BAM model EAR, and specify the remote CEI server configuration.
  - \_\_\_\_a. Navigate to Applications > Install new application
  - \_\_\_b. Browse to the ear file, C:\Labfiles62\RemoteCEIServer\ClipsAndTacksApplication.ear
  - \_\_\_\_ c. Make sure that you select 'Show me all installation options and parameters'.

Path to the new application				
<ul> <li>Local file system</li> </ul>				
Full path				
psAndTacksApplication.ear Browse				
C Remote file system				
Full path				
Browse				
Context root				
Used only for standalone Web modules (.war files) and SIP				
modules (.sar files)				
How do you want to install the application?				
O Prompt me only when additional information is required.				
Show me all installation options and parameters				
Next Cancel				

- \_\_\_\_d. In step 12 (Select monitor model CEI options) specify the remote CEI server.
  - 1) Click location remote, also enter your remote CEI server name and port. For example, aimcp096.austin.ibm.com, 2810.
    - a) You can verify the remote CEI server port by logging into the remote server administrative console and navigating to Servers > Server1 > Ports.
  - Click security enabled, and enter the user and password for the server
  - 3) Click the button 'refresh list' on the page, and you should see that the events group profile list is updated with the remote cell:

Event group profile list name

Select	Event group profile list name	Scope
	Event groups list	cell=aimcp096Node02Cell, node=aimcp096Node03, server=server1

#### Distribution mode

- C Active (monitor model queue-based)
- Active (monitor model queue bypass)
- O Inactive

4) Verify that queue bypass is selected on this page:

#### \_\_\_\_e. Finish the installation and verify that it completes successfully:

SECJ0400I: Successfuly updated the application ClipsAndTacksApplication with the appContextIDForSecurity information.

ADMA5011I: The cleanup of the temp directory for application ClipsAndTacksApplication is complete.

ADMA5013I: Application ClipsAndTacksApplication installed successfully.

Application ClipsAndTacksApplication installed successfully.

To start the application, first save changes to the master configuration.

Changes have been made to your local configuration. You can:

- <u>Save</u>directly to the master configuration.
- <u>Review</u> changes before saving or discarding.
- \_\_\_\_\_f. Check SystemOut.log for errors. Here is a sample of messages for a successful installation:
  - 1) ApplicationMg A WSVR0221I: Application started: ClipsAndTacksApplication
  - [12/3/08 10:52:53:937 CST] 00000044 LifecycleServ I com.ibm.wbimonitor.lifecycle.LifecycleServices start( String, long ) CWMLC0126I: Model [ClipsAndTacks] version [2007-09-11T12:07:30] start completed.
  - 3) [12/3/08 10:52:53:984 CST] 00000044 MMIntegration I com.ibm.wbimonitor.lifecycle.MMIntegration\_General bindJMS\_BATCH CWMLC0804I:
     \*\*\*\*\* 'GENERAL' integration sequence is COMPLETE. modeIID: 'ClipsAndTacks'
  - 4) [12/3/08 10:52:55:968 CST] 00000010 ConsumerDaemo I com.ibm.wbimonitor.mm.ClipsAndTacks.20070911120730.moderator.ConsumerDaemonH andlerImpl startDaemon() CWMRT3005I: The Monitor Model "ClipsAndTacks 20070911120730" is starting consumption on this server or cluster member in SERIAL\_MT mode with reordering=false from NORMAL\_QUEUE\_BYPASS.
- \_\_\_2. The application does not start automatically after installation, so leave the application in stopped status so that the model will leave the events in the inbound event table, so then you can easily check that the remote event configuration is working.

## Part 9: Run events on the remote CEI server on machine 2

The supplied program is 'BatchCBEWriter61' and it will submit the events to the Common Event Infrastructure. Look for the program in \Labfiles62\ClipsAndTacks\BatchCBEWriter. This program reads XML files which represent the common base events for the model.

- 1. Update BatchCBEWriter61.bat to point WAS\_HOME to the CEI server home, for example 'set WAS\_HOME=C:\ProcServer62'.
- 2. Update config.properties, setting the serverName and portNumber. You can find the port number by browsing the server log and finding 'bootstrap port'. For example, check for the log at C:\ProcServer62\profiles\ProcSrv01\logs\server1\SystemOut.log. Here is an example of the config.properties settings:
  - \_\_\_a.connect.serverName = localhost
  - \_\_\_b.connect.portNumber = 2810
- \_\_\_\_3. Open a command window, then change directory to the folder containing BatchCBEWriter61, for example, type this command
  - \_\_\_\_a. cd \Labfiles62\ClipsAndTacks\BatchCBEWriter
- 4. Run commands to load the common base events to the server.
  - \_\_\_a. batchcbewriter61 -Dsource.filename="c:/Labfiles62/clipsandtacks/cbe/allevents.xml"
  - \_\_\_\_ b. When it prompts you for user identity and password, enter 'admin' for both (without the quotation marks)
- \_\_ 5. When you run BatchCBEWriter61, you should see results such as:

C:\drivers\events>batchcbewriter61	-Dsource.filename="c:/drivers/events/clipsand
Catting ODE	
Getting GBES.	
Removing Giobalinstancelds.	
Setting missing values.	
Changing Instance Ids.	
Updating timestamps.	
Validating CBEs.	
Sending CBEs.	
START=09:14:10.875	
Sending cbe[10].	
Sending cbe[20].	
Sending cbe[30].	
Sending cbe[40].	
Sending cbe[50].	
Sending cbe[60].	
Sending che[20]	
Sending che[80].	
FND=09:14:24 390	
TotalTime=13515 milliseconds	
CREs/second=6_015316315005307	
ODES7 Second-0.215510515205527	

- 6. Check the logs on monitor server and process server for errors.
  - 7. Since the Clips and Tacks application is stopped the events should stay in the incoming events table. On the monitor server, open the DB2 control center, and navigate to the

INCOMING\_EVENTS table. Open the table to view the 68 event records that were submitted:

🚹 Open 1	fable - INCOMI	NG_EVENTS	

WSBETA147 - DB2 - MON62 - CLIPSANDTACKS.INCOMING\_EVENTS

Edits to these results are performed as searched UPDATEs and DELETEs, change the form of editing.

ID	₽	VERSION ⇒	QUEUE_ID ≑	OBSERVED ⇔	PA
	69	200709111207	active	0	
	70	200709111207	active	0	
	71	200709111207	active	0	
	72	200709111207	active	0	
	73	200709111207	active	0	
	-74	200709111207	active	0	
	75	200709111207	activa	0	

\_ 8. Start the ClipsAndTacksApplication on the monitor server, then wait a few minutes, then check the MCT\_CLPSNDTCKSM\_<timestamp> table in the DB2 control center for records. You should see 20 monitoring context instances:

#### Solution: Table - MCT\_CLPSNDTCKSM\_20070911120730

WSBETA147 - DB2 - MON62 - CLIPSANDTACKS.MCT\_CLPSNDTCKSM\_20070911120730

Edits to these results are performed as searched UPDATEs and DELETEs. Use the Tools Setti change the form of editing.

MCIID ≑	PARENT_MCIID ⇔	CREATION_TIME ⇔	TERMINATION_TIME ⇔	AB_
2		Dec 3, 2008 9:23:1	Dec 3, 2008 9:23:13 PM	
6		Dec 3, 2008 9:23:1	Dec 3, 2008 9:23:13 PM	
12		Dec 3, 2008 9:23:1	Dec 3, 2008 9:23:13 PM	
15		Dec 3, 2008 9:23:1	Dec 3, 2008 9:23:13 PM	
3		Dec 3, 2008 9:23:1	Jan 1, 9999 12:00:00 A	
4		Dec 3, 2008 9:23:1	Jan 1, 9999 12:00:00 A	
5		Dec 3, 2008 9:23:1	Jan 1, 9999 12:00:00 A	
7		Dec 3, 2008 9:23:1	Jan 1, 9999 12:00:00 A	
8		Dec 3, 2008 9:23:1	Jan 1, 9999 12:00:00 A	
9		Dec 3, 2008 9:23:1	Jan 1, 9999 12:00:00 A	
11		Dec 3, 2008 9:23:1	Jan 1, 9999 12:00:00 A	
13		Dec 3, 2008 9:23:1	Jan 1, 9999 12:00:00 A	
14		Dec 3, 2008 9:23:1	Jan 1, 9999 12:00:00 A	
16		Dec 3, 2008 9:23:1	Jan 1, 9999 12:00:00 A	
19		Dec 3, 2008 9:23:1	Jan 1, 9999 12:00:00 A	
20		Dec 3, 2008 9:23:1	Jan 1, 9999 12:00:00 A	
1		Dec 3, 2008 9:23:1	Dec 3, 2008 9:23:13 PM	
10		Dec 3, 2008 9:23:1	Dec 3, 2008 9:23:13 PM	
17		Dec 3, 2008 9:23:1	Dec 3, 2008 9:23:13 PM	
18		Dec 3, 2008 9:23:1	Dec 3, 2008 9:23:13 PM	

## What you did in this exercise

You installed DB2 and a stand-alone monitor server onto machine 1. Then you installed a stand-alone process server on machine 2. Then you configured and verified the queue bypass connection. Also, you deployed a model and sent events from the remote server to the monitor server.

## Appendix 1: Screen captures for the DB2 install

Welcome Installation Prerequisites Release Notes Migration Information Install a Product + Exit	Welcome to DB2 Version 9.5         The DB2 Setup Launchpad gives you access to all of the information that you need to install you DB2 products and features for Linux, UNIX, and Windows operating systems.         To access more information about the DB2 products available for installation or to perform an installation, select from the tabs provided. You can find more product information by searching to Information Center.         Image: Search Information Center       © Copyright International Business Machines Corporation, 1993, 2007. All rights reserved.
Velcome	Install a Product
Velcome Installation Prerequisites Release Notes	Install a Product Click Install New to launch the DB2 Setup wizard for the desired product and to install the produt to a new location. If you want to upgrade, migrate, or add features to an existing product, click W with Existing. You can also launch other product installations by clicking Install for the corresponding product.
r Setup Launchpad ne tion Prerequisites e Notes on Information a Product →	Install a Product     Office Install New to launch the DB2 Setup wizard for the desired product and to install the product to a new location. If you want to upgrade, migrate, or add features to an existing product, click W with Existing. You can also launch other product installations by clicking Install for the corresponding product.     DB2 Enterprise Server Edition Version 9.5



	ver Edition - DB2COPY1	
oftware License Agreement		
Please read the following license agree	eement carefully.	Ļ
IMPORTANT: READ CAREFUI	LLY	
Two license agreements are pres	sented below.	
1. IBM International License Ag	reement for Evaluation of Programs	
2. IBM International Program Li	cense Agreement	
buy," or demonstration): By click License Agreement, without mod	king on the "Accept" button below, You accept the IBM International Program dification.	n
If you are obtaining the Program (collectively, an "Evaluation"): B International License Agreement and (ii) the IBM International Pro-	for the purpose of evaluation, testing, trial "try or buy," or demonstration by clicking on the "Accept" button below, You accept both (i) the IBM t for Evaluation of Programs (the "Evaluation License"), without modificatio ogram License Agreement (the "IPLA"), without modification.	n; 💌
If you are obtaining the Program (collectively, an "Evaluation"): B International License Agreement and (ii) the IBM International Pro	a for the purpose of evaluation, testing, trial "try or buy," or demonstration by clicking on the "Accept" button below, You accept both (i) the IBM t for Evaluation of Programs (the "Evaluation License"), without modificatio ogram License Agreement (the "IPLA"), without modification.	n; 💌
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elect the installa	tion type
Typical:	Approximately 590 - 800 MB
C Compact:	Approximately 340 - 550 MB
C Custom:	Approximately 340 - 990 MB
To add features Custom.	s for application development and other optional functionality later in the setup process, click
	View Festures

5.

🕞 DB2 Setup - DB2 Enterprise Server Edition - DB2COPY1	_ 🗆 ×
Select the installation, response file creation, or both	
The DB2 Setup Wizard can install DB2 Enterprise Server Edition on this computer, create a response file that you can use to install this product on a computer later, or both.	
If you are setting up a DB2 Enterprise Server Edition (ESE) partitioned database environment, you can also create a response file to install DB2 on the other computers that will act as database partition servers.	
Install DB2 Enterprise Server Edition on this computer	
C Save my installation settings in a response file	
No software will be installed on this computer.	
O Install DB2 Enterprise Server Edition on this computer and save my settings in a response file	
Response file name C:\Documents and Settings\Administrator\My Documents\PROD_ESE.rsp	
InstallShield	
< Back Next > Cancel	Help

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Select the in	stallation folder				
Select the In.					
The DB2 Setup ( type a directory,	vizard installs DB2 Enterpri	se Server Edition in the fo	ollowing folder. To selec	t a different folder, clicl	k Change or
Directory	C:\Program Files\IBM\	\SQLLIB\		Change	
Directory	C:\Program Files\IBM\ Space required:	\SQLLIB\ 687 MB		Change Disk space	
Directory	C:\Program Files\IBM\ Space required:	\SQLLIB\ 687 MB		Change Disk space	·
Directory	C:\Program Files\IBM\ Space required:	\SQLLIB\ 687 MB		Change Disk space	·

\_\_\_\_7.

B2 Setup - DB2 I	Enterprise Server Edition - DB2COPY	1	
Set user infor	mation for the DB2 Administr	ation Server	
The DB2 Admin the required us	nistration Server (DAS) runs on your compu ser information for the DAS.	ter to provide support required by the DB2 tools. Specify	
	User information		
	Domain	None - use local user account	•
	User name	db2admin	
	Password	*****	_
	Confirm password	******	_
	Confirm password	<b>*****</b>	
	Confirm password	<b>*****</b>	
<b>⊡</b> Use the sa	Confirm password	ning DB2 services	
I⊽ Use the sa	Confirm password	ning DB2 services	

	D - DB2 Enterprise Server Edition - DB2COPY1	
Configu	ire DB2 instances	
The Con	following instances will be created during installation. You can customize the configurations by clicking on the figure button.	
D	82 Instances:	
D	B2 Configure	
<b>[</b> 1	nstance description	
ſ	nstance description The default instance, DB2, stores application data.	
-1	nstance description The default instance, DB2, stores application data. You can build a partitioned database environment by installing DB2 Enterprise Server Edition on other computers, and specify that these computers participate in the default instance.	
-1	nstance description The default instance, DB2, stores application data. You can build a partitioned database environment by installing DB2 Enterprise Server Edition on other computers, and specify that these computers participate in the default instance.	
-1	nstance description The default instance, DB2, stores application data. You can build a partitioned database environment by installing DB2 Enterprise Server Edition on other computers, and specify that these computers participate in the default instance.	
allShield -	nstance description The default instance, DB2, stores application data. You can build a partitioned database environment by installing DB2 Enterprise Server Edition on other computers, and specify that these computers participate in the default instance.	

\_\_\_\_\_9.

The DB2 tools catalog must be creat schedule common tasks such as bac	ted in order to use the Task Center and kups. The DB2 tools catalog must be sto	scheduler. These tools allow you to pred in a DB2 database.
Prepare the DB2 tools catalog		
Instance	DB2	<b>•</b>
Database		
lew	TOOLSDB	
C Existing		
Schema		
C New	SYSTOOLS	
C Existing		

Set up notifications	
You can set up your DB2 server to auto database needs attention. The contact unauthenticated SMTP server to send	tomatically send e-mail or pager notifications to alert administrators when a t information is stored in the administration contact list. You need an these notifications.
If you do not set up your DB2 server to notification log.	o send notifications at this time, the health alerts are still recorded in the administrat
Set up your DB2 server to send no	notifications
Notification SMTP server	
Administration contact list location	pn
🌀 Local - Create a contact li	list on this computer
C Remote - Use an existing	contact list on another DB2 server
Remote DB2 server	

Enable operating	g system security	for DB2 objects
Specify if you wo your computer. I specified below.	uld like to enable operatin f you enable this security,	ig system security for DB2 files, folders, registry keys, and other objects on operating system access to DB2 objects will be limited to the groups
Note: The DB2 Se	etup wizard has detected t	that the group names shown below already exist on your computer.
	ting system security	
Enable opera	ung system security	
Enable opera	ation on the DB2 administr	rators group and DB2 users group is available by clicking Help.
Enable opera Inform	ation on the DB2 administr administrators group	rators group and DB2 users group is available by clicking Help.
Enable opera Inform DB2 a	ation on the DB2 administr administrators group	rators group and DB2 users group is available by clicking Help. None - use local group
Enable opera Inform DB2 a Grou	ation on the DB2 administr administrators group main	rators group and DB2 users group is available by clicking Help.          None - use local group         DB2ADMNS
Enable opera Inform DB2 a Gro DB2 u	ation on the DB2 administr administrators group main up name users group	rators group and DB2 users group is available by clicking Help.          None - use local group         DB2ADMNS
Enable opera Inform DB2 a DB2 a Gro DB2 u Dorr	ation on the DB2 administr administrators group main up name users group	rators group and DB2 users group is available by clicking Help.          None - use local group         DB2ADMNS         None - use local group

The DB2 Setup wizard has enoug any settings, click Back. If you an	th information to start copying the program files. If you want to review or e satisfied with the settings, click Install to begin copying files.	change
Current settings:		
Product to install: Installation type:	DB2 Enterprise Server Edition - DB2C0PY1 Typical	
DB2 copy name:	DB2COPY1	
Set as default DB2 copy Set as default IBM data	/: Yes base client interface copy: Yes	
Selected features:		
XML Extender DB2 WMI Provider		
SQLJ Support Sample database sou	irce	
Replication tools		
ODBC Support		-

## Appendix 2: Screen captures for the monitor server install

re. software	Welcome to the IBM WebSphere Business Monitor 6.2 installation wizard
	This wizard installs IBM WebSphere Business Monitor 6.2 on your computer. For additional information about the installation process, see the WebSphere Business Monitor information center.
A 38	Click <b>Next</b> to continue.
88	
ld	

	Software License Agreement
nere software	Please read the following license agreement carefully.
	International Program License Agreement
	Part 1 - General Terms
	BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, OR USING THE PROGRAM YOU AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF ANOTHER PERSON OR A COMPANY OR OTHER LEGAL ENTITY, YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND THAT PERSON, COMPANY, OR LEGAL ENTITY TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS,
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	Read non-IBM terms
	C I do not accept the terms in the license agreement
	Print

\_\_\_\_\_2.

3M WebSphere Busin	ness Monitor 6.2
lebSphere. software	System prerequisites check
	Passed: Your operating system completed the prerequisites check successfully.
	The installation wizard checks your system to determine whether a supported operating system is installed and whether the operating system has the appropriate service packs and patches.
	<ul> <li>Installations of WebSphere Application Server prior to Version 6.0 may not be found reliably.</li> </ul>
	<ul> <li>Installations of WebSphere Application Server and WebSphere Business Monitor that are not registered with the operating system may not be found reliably.</li> </ul>
e 🖻 📈	Click <b>Next</b> to continue the installation.
tallShield	
And a state of the	< Back Next > Cancel

\_\_\_\_\_ 3.

ebSphere software	Installation type selection
1	Select the type of installation that best suits your needs.
	Installation Types:
	Basic Installation
	Advanced Installation
	Description
H	A basic installation will install all WebSphere Business Monitor components and required prerequisite software on one server. You can install optional prerequisite software, such as AlphaBlox, during a basic installation.
	This option is ideal for creating a development testing environment, demonstrations, and prototypes
allShield	

\_\_\_\_\_4.

phere. software	Installation directory	
	WebSphere Business Monitor will be installed into the specify a different directory or click <b>Browse</b> to select a	specified directory. You ma directory.
	Business Monitor server installation location:	
- 00	C:\MonServer62	
		<u>Br</u> owse
shield		

\_\_\_\_\_5.

WebSphere software	WebSphere Application Server enable administrative security
	Choose whether to enable administrative security. To enable security, specify a user name and password to log in to the administrative tools. The administrativ user is created in a repository within the application server. After the installation finishes, you can add more users, groups, or external repositories.
	✓ Enable administrative security
	User name:
	admin
	Password:
00	*****
	Confirm password:
	*****
	See the <u>information center</u> for more information about administrative security.

iere. software	Human Tasks configuration
	To view human tasks in your dashboard using the Human Tasks widget, you must deploy the human task application and configure WebSphere Business Monitor to access an existing WebSphere Process Server. You must provide the host name and RMI port number for the existing WebSphere Process Server.
	Configure human task monitor model
60	WebSphere Process Server host name:
	VebSphere Process Server RMI port number (default port number is 2809).
	Description Using the Human Tasks Manager in WebSphere Process Server, you can track human tasks. To display all available human tasks, you can add the Human
	Tasks widget to your dashboard. See the <u>information center</u> for more information about human task configuration.

\_\_\_\_7.

WebSphere software	Screen customizations	
in and the second s	Select the desired screen customizations:	
	Use WebSphere Business Monitor theme as AlphaBlox default theme	
1 88		
nstallShield		
	< Back Next > Can	cel

\_\_\_\_\_ 8.

nere software	Database configuration
Je .	The WebSphere Business Monitor installation process will create required resources to configure the connections to the database.
	You must select your database software, choose the database creation method, and type the name for the Monitor database that will be created.
	Database product:
50	DB2 Universal Database
	C Use existing database. You must run the generated scripts manually to create the database.
	MON62
	Schema name:
	MON62
	The second se
	Description
	The database name corresponds to the name of the WebSphere Business Monitor database that is created on the database server.

\_\_\_\_\_ 9.

WebSphere software	Additional database configuration
	To configure the database connections during this installation, you must provide additional information about the database server you are using.
A	For database authentication, you must type the user name and password for the database user that will be used to create the Monitor database. The database user must have read and write access on the database.
	User name:
	db2admin
	Password
	*****
	Confirm password:
EN	******
	JDBC driver classpath files directory for WebSphere Business Monitor:
	C:\MonServer62\universalDriver.wbm\lib
	Browse
	JDBC driver type:
	C 2 (requires database software or database client to be installed on the local system)
	© 4
	Database server host name or IP address:
	WSBETA147.austin.ibm.com
	Database TCP/IP service port or listener port:
	50000

ebSphere software	Installation summary
	Review the summary for correctness. Click <b>Back</b> to change values on previous panels. Click <b>Next</b> to begin the installation.
	The following products will be installed:
A	WebSphere Business Monitor 6.2     Product installation location:     C:\MonServer62     Components to be installed:
	<ul> <li>Business Monitor server including Business Space</li> <li>Monitor database using DB2 Universal Database Create a new database automatically</li> <li>AlphaBlox features for Business Space</li> <li>WebSphere Application Server Network Deployment 6.1 Product installation location: C:1MonServer62</li> </ul>
_	The following features will be included:
	Core product files     Tatal aircl
	• 1836 MB
	Administrative security enabled:
	True
allShield -	
	« Back Nexts Cancel

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## Appendix 3: Screen captures for the process server install

🖄 IBM WebSphere Proces	ss Server 6.2			
WebSphere, software	Welcome to the IBM WebSp This wizard installs IBM Wek more information, see the <u>in</u> Click <b>Next</b> to continue.	here Process Se Sphere Process formation center.	rver 6.2 Installatio	<b>n Wizard</b> computer. For
1. <b>InstallShield</b> <b>IBM WebSphere Proces</b> <b>WebSphere</b> software	s Server 6.2 Software License Agreement Please read the following licen International License Agreeme Part 1 - General Terms THIS INTERNATIONAL LICENS PROGRAMS ("AGREEMENT")	< Back	efully. se of Programs	Cancel
Install@hield	PROGRAMS (AGREEMENT) I BY DOWNLOADING, INSTALLI PROGRAM YOU AGREE TO TH ACCEPTING THESE TERMS O COMPANY OR OTHER LEGAL YOU HAVE FULL AUTHORITY Read non-IBM terms accept both the IBM and th 1 do not accept the terms in Print	S A LEGAL AGRE NG, COPYING, AC IE TERMS OF THI IN BEHALF OF AN ENTITY, YOU REI TO BIND THAT PE IE non-IBM terms the license agree	EMENT BETWEEN CESSING, OR US S AGREEMENT. IF IOTHER PERSON PRESENT AND W RSON. COMPANY	YOU AND IBM. SING THE YOU ARE OR A ARRANT THAT YOR LEGAL
2		< <u>B</u> ack	<u>N</u> ext >	<u>C</u> ancel

phere Proces	s Server 6.2	-   [
	System Prerequisites Check	
	Passed: Your operating system completed the prerequisites check successfully.	
	Your operating system meets or exceeds the requirements for this product. See the <u>WebSphere Process Server detailed system requirements</u> Web pages for more information about supported operating systems. Go to the <u>product support</u> Web pages to obtain the latest maintenance packages to apply after installation.	
	The installation wizard also checks for existing installations of WebSphere Application Server, WebSphere Process Server, and WebSphere Enterprise Service Bus. To have more than one installation of WebSphere Application Server running on the same machine, unique port values must be assigned to each installation. Otherwise, only one installation of WebSphere Application Server can run. Installations of WebSphere Application Server prior to Version 6.1	n
	mav not be found reliably.	
	< Back Next > Cance	el
oces	s Server 6.2	-   [
	Detected WebSphere Application Server	
re	The installation wizard detected an existing installation of WebSphere Application Server or a WebSphere Application Server with Feature Pack for W Services. You can either use an existing installation of either of these or insta new copy. For existing installations of WebSphere Application Server, the Fea Pack for Web Services will be added. Installation will occur simultaneously w IBM WebSphere Process Server.	Veb II a iture ith
	Install a new copy of WebSphere Application Server Network Deployment     Easture Pack for Web Services	with
	Use an existing installation of WebSphere Application Server Network C Deployment or WebSphere Application Server Network Deployment with Feature Pak for Web Services	

D:\MonServer

\_\_ 4.

\_\_\_\_\_ 3.

< <u>B</u>ack

Ŧ

<u>C</u>ancel

Next ≻

	WebSphere Process Server Installation Type Selection
WebSphere. software	Select the type of installation that best suits your needs. Installation Types: Typical Installation Deployment Environment Installation Client Installation Description This is a full installation of WebSphere Process Server that allows you to define an initial WebSphere Process Server environment of one stand-alone server, deployment manager, or custom profile. Alternatively, it allows you to run the Profile Management Tool in order to create your environment.
tallShield	

\_\_\_\_\_5.

🖄 IBM WebSphere Process	Server 6.2
	Features Selection
WebSphere, software	Select IBM WebSphere Process Server features to install. See the information center for descriptions of the features.
	WebSphere Process Server samples
	The samples include both source code files and integrated enterprise applications that demonstrate some of the latest Java (TM) 2 Platform, Enterprise Edition (J2EE) and WebSphere technologies. The Samples are recommended for installation to learning and demonstration environments, such as development environments. However, they are not recommended for installation to production server environments.
InstallShield	
	< <u>B</u> ack <u>Next&gt;</u> <u>C</u> ancel

\_\_\_\_6.

🖄 IBM WebSphere Process	Server 6.2	
	Installation Root Directory for WebSphere Process Server	
WebSphere, software	WebSphere Process Server will be installed to the specified director specify a different directory or click <b>Browse</b> to select a directory.	ry. You can
Lunn.	Product installation location:	
	C:\ProcServer62	
		B <u>r</u> owse
InstallShield		
	< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel

🝟 IBM WebSphere Process Server 6.2 \_ 🗆 🗵 WebSphere Process Server Environments Select the type of WebSphere Process Server environment to create during installation. Although only one environment type can be chosen, additional WebSphere, software profiles can be created after installation using the Profile Management Tool. Stand-alone server Deployment manager Custom None Description A stand-alone server environment runs your enterprise applications. The server is managed from its own administrative console and functions independently from all other servers and deployment managers. < <u>B</u>ack <u>N</u>ext ≻ <u>C</u>ancel

7.

WebSphere       software         WebSphere       software         Choose whether to enable administrative security. To enable security user name and password to log in to the administrative tools. The user is created in a repository within the process server or Enterpresenter bus. After installation finishes, you can add more users, groups, or repositories.         Image: Imag	urity, specify a e administrative rise Service or external
InstallShield	Cancel

9.

here software       Review the summary for correctness. Click Back to change values on previous panels. Click Next to start installing WebSphere Process Server.         The following products will be installed:       • WebSphere Process Server Product installation location: C:\ProcServer62         • WebSphere Application Server Network Deployment with Feature Pack for Web Services Product installation location: C:\ProcServer62         • The following features will be included:         • Core product files         • The total size will be: • 1883 MB		Installation Summary
<ul> <li>The following products will be installed:         <ul> <li>WebSphere Process Server Product installation location: CAProcServer62</li> <li>WebSphere Application Server Network Deployment with Feature Pack for Web Services Product installation location: CAProcServer62</li> </ul> </li> <li>The following features will be included:         <ul> <li>Core product files</li> <li>The total size will be:                 <ul> <li>1883 MB</li> </ul> </li> </ul> </li> </ul>	oftware	Review the summary for correctness. Click <b>Back</b> to change values on previous panels. Click <b>Next</b> to start installing WebSphere Process Server.
<ul> <li>WebSphere Process Server Product installation location: C:\ProcServer62</li> <li>WebSphere Application Server Network Deployment with Feature Pack for Web Services Product installation location: C:\ProcServer62</li> <li>The following features will be included:         <ul> <li>Core product files</li> <li>The total size will be:                 <ul> <li>1883 MB</li> </ul> </li> </ul> </li> </ul>		The following products will be installed:
The following features will be included: Core product files The total size will be: 1883 MB		<ul> <li>WebSphere Process Server Product installation location: C\\ProcServer62</li> <li>WebSphere Application Server Network Deployment with Feature Pack for Web Services Product installation location: C\\ProcServer62</li> </ul>
Core product files The total size will be:     1883 MB	N THEN	The following features will be included:
The total size will be: • 1883 MB		Core product files
• 1883 MB		The total size will be:
		● 1883 MB
The following profile type was selected:		The following profile type was selected:
	L	

\_\_\_\_\_ 10.

省 IBM WebSphere Process	Server 6.2	. 🗆 🗙
	Installation Results	-
WebSphere, software	Success: The following product(s) were successfully installed.    WebSphere Process Server C:\ProcServer62  WebSphere Application Server Network Deployment with Feature Pack for Web Services C:\ProcServer62  The following profile type was selected:	
	<ul> <li>Stand alone</li> <li>For more profile information, refer to the log at:</li> <li><u>AboutThisProfile.bt</u> log. C:/ProcServer62/profiles/ProcSrv01/logs/AboutThisProfile.bt</li> </ul>	V
InstallShield	< Back Next > Finist	1

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