© Copyright IBM Corporation 2010 All rights reserved

WebSphere Business Monitor V7.0

Configuring a remote CEI server

What this exercise is about 2

Lab requirements 2

What you should be able to do 2

Introduction 3

Part 1: Install Monitor server on machine 1 4

Part 2: Create WebSphere Business Monitor stand-alone profile 6

Part 3: Install process server on machine 2 9

Part 4: Create WebSphere Process Server stand-alone profile 11

Part 5: Configure single sign-on and SSL on monitor server on machine 1 14

Part 6: Configure single sign-on and SSL on process server on machine 2 17

Part 7: Run the queue bypass script on the remote server on machine 2 19

Part 8: Install the Clips And Tacks BAM monitor model on the monitor server on machine 1 21

Part 9: Run events on the remote CEI server on machine 2 23

What you did in this exercise 25

© Copyright IBM Corporation 2010. All rights reserved

What this exercise is about

The objective of this lab is to provide instructions for installing WebSphere Business Monitor V7.0 as a stand-alone server, then configuring it to use a remote CEI server which is installed on a second machine. 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 V7.0 which includes
    - WebSphere Application Server
    - Alphablox
- WebSphere Process Server V7.0
- You should have a supported version of DB2 installed. In this lab it is installed on machine 1 and machine 2.
- You should have two machines, or you can 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 WebSphere Business Monitor on machine 1.
- Install WebSphere Process Server on machine 2.
- Configure single sign-on and SSL on both machines.
- Run the queue bypass script 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.

© Copyright IBM Corporation 2010. All rights reserved

Introduction

To enable the WebSphere® Business Monitor server to manage a remote CEI event 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 or WebSphere Application Server.

For WebSphere Business Monitor there are two options for receiving events, "Queued" and "Queue Bypass". Queue bypass is a 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 through-put.

This lab will show you how to install 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.

© Copyright IBM Corporation 2010. All rights reserved

Part 1: Install Monitor server on machine 1

Install a stand-alone Monitor server on machine 1.

____ 1. Unzip the binary image to your disk, to a folder such as \MonitorImage.

____ 2. Run Launchpad.exe in \MonitorImage.

____ 3. On the left navigation pane of the WebSphere Business Monitor Common Launchpad, click the **WebSphere Business Monitor → New Installation** link

____ 4. Specify a new folder name for the **Installation Location** for WebSphere Application Server Network Deployment

____ 5. Now, click the **Install WebSphere Application Server** link. This action silently installs IBM Installation Manager V1.3.3, WebSphere Application Server V7.0.0.7 and then imports the WebSphere Application Server repository to the Installation Manager

____ 6. Once the WebSphere Application Server installation is complete, you should see a pop-up stating that the WebSphere Application Server installation is successful and imported into the Installation Manager. Click **OK**

____ 7. Back to the WebSphere Business Monitor Common Launchpad, click the **Install WebSphere Business Monitor** link

____ 8. The Installation Manager is launched. In the **Install Packages** panel, select the check boxes for:

__ a. IBM WebSphere Business Monitor

__ b. IBM WebSphere Application Server V7 Feature Pack for XML

____ 9. Click **Next**

____ 10. In the next panel, read the license agreements. If you agree to the terms, select the radio button next to **I accept the terms in the license agreements** and Click **Next**

____ 11. In the next panel, select the radio button for **Use the existing package group** and then select **IBM WebSphere Application Server – ND** as the Package Group Name

____ 12. Click **Next**

____ 13. In the next panel, click the **Expand All** button to see all the features. Now, select the following WebSphere Business Monitor features:

__ a. IBM WebSphere Business Monitor Server 7.0.0.0

1) Do not select any of the profile options, since you will use the profile management tool to create the profile later.

__ b. Alphablox

__ c. IBM WebSphere Application Server V7 Feature Pack for XML 1.0.0.0

____ 14. Click **Next**

____ 15. In the next panel, verify the WebSphere Business Monitor installation summary

© Copyright IBM Corporation 2010. All rights reserved

____ 16. Click **Install** to continue with the installation. The **WebSphere Business Monitor V7.0** installation progresses

____ 17. Select the radio button for **Profile Management Tool** and click **Finish** when the installation is complete

© Copyright IBM Corporation 2010. All rights reserved

Part 2: Create WebSphere Business Monitor stand-alone profile

In this part of the lab, you will create a WebSphere Business Monitor stand-alone profile.

____ 1. Launch the Profile Management Tool

__ a. From the start menu, select **IBM WebSphere → Business Monitor 7.0 → Profile Management Tool**

____ 2. Select the **Profile Management Tool** button

____ 3. Click the **Create** button. The **Environment Selection** panel is launched

____ 4. In the **Environment Selection** panel, expand **WebSphere Business Monitor** and select **Stand-alone monitor server**

____ 5. Click **Next**

____ 6. In the **Profile Creation Options** panel, select the radio button for **Advanced profile creation**

____ 7. Click **Next**

____ 8. In the **Optional Application Deployment** panel, select the applications to deploy:

__ **a.** (Optional) **Deploy the Sample applications**

__ **b. Deploy the administrative console (recommended)**

__ c. (Optional) **Deploy the default application**

____ 9. Click **Next**

____ 10. In the **Profile Name and Location** panel, specify the profile name, directory path to the profile being created

__ a. Profile name : **WBMon01**

__ b. Profile Directory : **C:\IBM\WebSphere\MonServer\profiles\WBMon01**

__ c. (Optional) Select the check box for **Create the server for using the development template**

____ 11. Click **Next**

____ 12. In the **Node and Host Names** panel, you should be able to take the defaults. Here is an example:

__ a. Node name : **wbmNode01**

__ b. Server name : **server1**

__ c. Host name : **wbserver.austin.ibm.com**

__ d. Cell Name : **wbmNode01Cell**

____ 13. Click **Next**

____ 14. In the **Administrative Security** panel, select the check box for **Enable administrative security** and then enter the administrative username and password:

© Copyright IBM Corporation 2010. All rights reserved

__ a. User name : **admin**

__ b. Password : **admin**

__ c. Confirm Password : **admin**

____ 15. Click **Next**

____ 16. In the **Security Certificate (Part 1)** panel, accept the defaults

____ 17. Click **Next**

____ 18. In the **Security Certificate (Part 2)** panel, accept the defaults

____ 19. Click **Next**

____ 20. In the **Port Values Assignment** panel, review the ports assigned. You can change them to the desired values, but ensure that the port numbers do not conflict with other services running on this machine

____ 21. Click **Next**

____ 22. In the **Windows Service Definition** panel, clear the check box for **Run the business monitor process as a Windows service**

____ 23. Click **Next**

____ 24. In the Web Server Definition panel, clear the check box for Create a Web server definition

____ 25. Click **Next**

____ 26. In the **Common Event Infrastructure Configuration** panel, choose a database type and enter the information based on that type:

__ a. Database Product: DB2 Universal Database

__ b. Common Database name : event

__ c. Optionally select the check box for Delay execution of database scripts (must if using a remote database)

__ d. Click Next

__ e. In the DB2 Common Event Infrastructure Configuration (Part 2) panel, enter the additional database configuration information:

__ f. User name to authenticate with the database: db2admin

__ g. Password for database authentication: yourPassword

__ h. Confirm password: yourPassword

__ i. Location (directory) of JDBC driver class path files: <WBM_HOME>\universalDriver.wbm\lib

__ j. Database server host name: Ex: dbserver.austin.ibm.com

__ k. Server Port: 50000 (default)

© Copyright IBM Corporation 2010. All rights reserved

__ l. Click Next.

____ 27. In the **WebSphere Process Server Monitor Models** panel, optionally select the check box for **Deploy WebSphere Process Server monitor models** and enter the WebSphere Process Server host name and RMI port number

---

Note: The **Deploy WebSphere Process Server monitor models** action requires a WebSphere Process Server V7.0 in the environment.

____ 28. Click **Next**

____ 29. In the **Business Space Configuration** panel, select the check box for **Configure Business Space**

____ 30. Click **Next**

____ 31. In the **Database Configuration** panel, enter the information below:

__ a. Database product: DB2 Universal Database

__ b. Common database name : MONITOR

__ c. Schema name : MONITOR

__ d. Optionally select the check box for Delay execution of database scripts (if using a remote database)

__ e. Click Next

__ f. In the Database Configuration (Part 2) panel, enter the additional database configuration information:

__ g. User name to authenticate with the database: db2admin

__ h. Password for database authentication: yourPassword

__ i. Confirm password: yourPassword

__ j. Location (directory) of JDBC driver class path files: <WBM_HOME>\ universalDriver.wbm/lib

__ k. JDBC driver type: 4

__ l. Database server host name: Ex: dbserver.austin.ibm.com

__ m. Server Port: 50000 (default)

__ n. Click Next.

____ 32. In the **Message Store Type Selection** panel, select the radio button for **Data store**

____ 33. Click **Next**

____ 34. In the **Profile Creation Summary** panel, verify the profile creation summary

____ 35. Click **Create**

____ 36. Start the monitor server.

__ a. Programs > IBM WebSphere > Business Monitor 7.0 > Profiles > WBMon01 > Start the server.

© Copyright IBM Corporation 2010. All rights reserved

Part 3: Install process server on machine 2

Install a stand-alone process server on machine 2. You will not need DB2 for this installation since Derby will be used.

____ 1. Unzip the binary image to your disk, to a folder such as \WPSImage.

____ 2. Run Launchpad.exe in \WPSImage.

____ 3. On the left navigation pane of the launchpad, click the **WebSphere Process Server → New Installation** link

____ 4. Specify a new folder name for the **Installation Location** for WebSphere Application Server Network Deployment

____ 5. Now, click the **Install WebSphere Application Server** link. This action silently installs IBM Installation Manager V1.3.3, WebSphere Application Server V7.0.0.7 and then imports the WebSphere Application Server repository to the Installation Manager

____ 6. Once the WebSphere Application Server installation is complete, you should see a pop-up stating that the WebSphere Application Server installation is successful and imported into the Installation Manager. Click **OK**

____ 7. Back to the launchpad, click the **Install WebSphere Process Server** link

____ 8. The Installation Manager is launched. In the **Install Packages** panel, select the check boxes for:

__ a. IBM WebSphere Process Server

__ b. IBM WebSphere Application Server V7 Feature Pack for Service Component Architecture

__ c. IBM WebSphere Application Server V7 Feature Pack for XML

____ 9. Click **Next**

____ 10. In the next panel, read the license agreements. If you agree to the terms, select the radio button next to **I accept the terms in the license agreements** and Click **Next**

____ 11. In the next panel, select the radio button for **Use the existing package group** and then select **IBM WebSphere Application Server – ND** as the Package Group Name

____ 12. Click **Next**

____ 13. In the next panel, click the **Expand All** button to see all the features. Now, select the following features:

__ a. WebSphere Process Server - Client

__ b. WebSphere Process Server

1) Do not select any of the profile options, since you will use the profile management tool to create the profile later.

__ c. IBM WebSphere Application Server V7 Feature Pack for Service Component Architecture (SCA) 1.0.1.0

© Copyright IBM Corporation 2010. All rights reserved

1) Service Data Objects

__ d. IBM WebSphere Application Server V7 Feature Pack for XML 1.0.0.0

____ 14. Click **Next**

____ 15. In the next panel, verify the default credentials, then click Next

____ 16. In the next panel, verify the installation summary

____ 17. Click **Install** to continue with the installation. The installation progresses

____ 18. Select the radio button for **Profile Management Tool** and click **Finish** when the installation is complete

© Copyright IBM Corporation 2010. All rights reserved

Part 4: Create WebSphere Process Server stand-alone profile

In this part of the lab, you will create a WebSphere Process Server stand-alone profile.

____ 1. Launch the Profile Management Tool

__ a. From the start menu, select **IBM WebSphere → Process Server 7.0 → Profile Management Tool**

____ 2. Select the **Profile Management Tool** button

____ 3. Click the **Create** button. The **Environment Selection** panel is launched

____ 4. In the **Environment Selection** panel, expand **WebSphere Process Server** and select **Stand-alone process server**

____ 5. Click **Next**

____ 6. In the **Profile Creation Options** panel, select the radio button for **Advanced profile creation**

____ 7. Click **Next**

____ 8. In the **Optional Application Deployment** panel, select the applications to deploy:

__ **a.** (Optional) **Deploy the Sample applications**

__ **b. Deploy the administrative console (recommended)**

__ c. (Optional) **Deploy the default application**

____ 9. Click **Next**

____ 10. In the **Profile Name and Location** panel, specify the profile name, directory path to the profile being created

__ a. Profile name : **ProcSrv01**

__ b. Profile Directory : **C:\IBM\WebSphere\MonServer\profiles\ProcSrv01**

__ c. (Optional) Select the check box for **Create the server for using the development template**

____ 11. Click **Next**

____ 12. In the **Node and Host Names** panel, you should be able to take the defaults. Here is an example:

__ a. Node name : **wbmNode01**

__ b. Server name : **server1**

__ c. Host name : **wbserver.austin.ibm.com**

__ d. Cell Name : **wbmNode01Cell**

____ 13. Click **Next**

____ 14. In the **Administrative Security** panel, select the check box for **Enable administrative security** and then enter the administrative username and password:

© Copyright IBM Corporation 2010. All rights reserved

__ a. User name : **admin**

__ b. Password : **admin**

__ c. Confirm Password : **admin**

____ 15. Click **Next**

____ 16. In the **Security Certificate (Part 1)** panel, accept the defaults

____ 17. Click **Next**

____ 18. In the **Security Certificate (Part 2)** panel, accept the defaults

____ 19. Click **Next**

____ 20. In the **Port Values Assignment** panel, review the ports assigned. You can change them to the desired values, but ensure that the port numbers do not conflict with other services running on this machine

____ 21. Click **Next**

____ 22. In the **Windows Service Definition** panel, clear the check box for **Run the business monitor process as a Windows service**

____ 23. Click **Next**

____ 24. In the Web Server Definition panel, clear the check box for Create a Web server definition

____ 25. Click **Next**

____ 26. For Business Process Choreographer configuration, select the check box to configure a sample.

____ 27. Click **Next**

____ 28. In the **Business Space Configuration** panel, select the check box for **Configure Business Space**

____ 29. Click **Next**

____ 30. In the **Business Rules Manager Configuration** panel, leave the option unchecked.

____ 31. Click **Next**

____ 32. In the **Database Design** panel, leave the option unchecked.

____ 33. Click **Next**

____ 34. In the **Database Configuration** panel, enter the information below:

__ a. Database product: DB2 Universal

__ b. Common database name : WPRCSDB

__ c. Common event infrastructure database name : EVENT

__ d. Click Next

__ e. In the Database Configuration (Part 2) panel, enter the additional database configuration information:

© Copyright IBM Corporation 2010. All rights reserved

__ f. User name to authenticate with the database: db2admin

__ g. Password for database authentication: yourPassword

__ h. Confirm password: yourPassword

__ i. Location (directory) of JDBC driver class path files: <WBM_HOME>\ universalDriver.wbm/lib

__ j. JDBC driver type: 4

__ k. Database server host name: Ex: dbserver.austin.ibm.com

__ l. Server Port: 50000 (default)

__ m. Schema name: WPRCSDB

__ n. Click Next.

____ 35. In the **Profile Creation Summary** panel, verify the profile creation summary

____ 36. Click **Create**

____ 37. Start the process server.

__ a. Programs > IBM WebSphere > Process Server 7.0 > Profiles > qwps > Start the server.

© Copyright IBM Corporation 2010. All rights reserved

Part 5: 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 > Global security > Authentication section > Web and SIP 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, for example, 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 Global security page, find the Authentication section, then click the link LTPA

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.

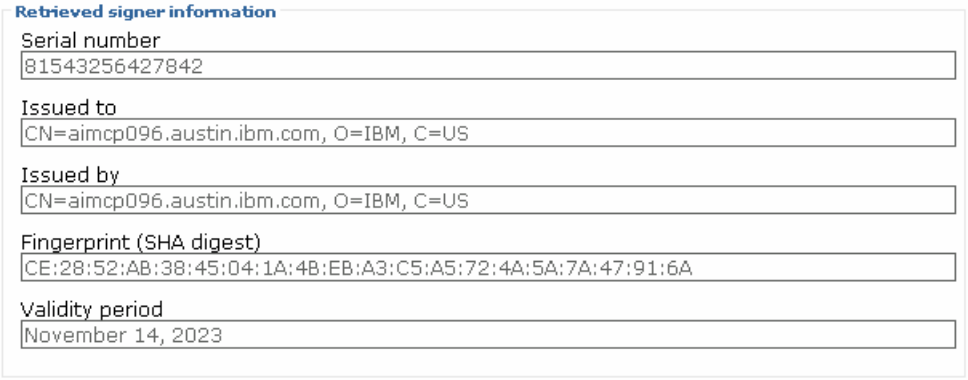
__ d. Enter the remote server port. For example, 8880

1) You can verify the remote port by logging into the remote server administrative console and navigating to Servers > Server Types > WebSphere Application Servers > Server1 > Ports.

__ e. Enter the alias as wps70

© Copyright IBM Corporation 2010. All rights reserved

__ f. Click to retrieve signer information.

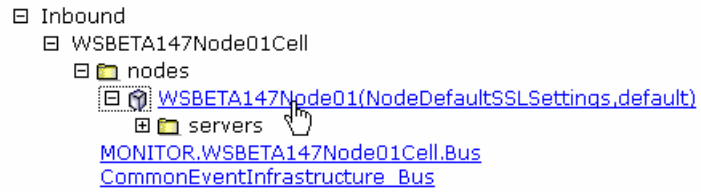


__ g. Click Ok.

__ h. Click to save the configuration.

__ i. In the administrative console, navigate to Security > SSL certificate & key management > Manage endpoint security configuration.

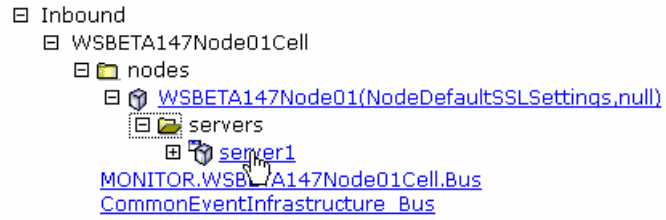
__ j. For the inbound event node, navigate to Inbound > <yourCell> > nodes > then click the node link



__ k. Make sure you have the default SSL configuration and the default alias:

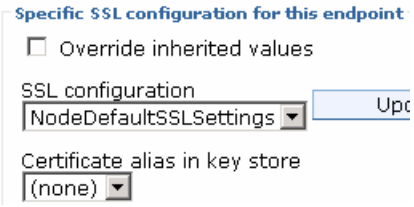
__ l. Click OK.

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



© Copyright IBM Corporation 2010. All rights reserved

__ n. Make sure that override is unchecked:



__ o. Click OK.

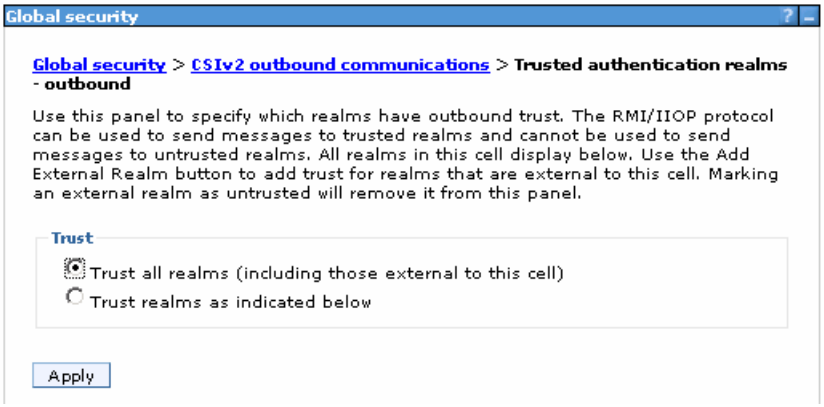
__ p. Perform the same checks and updates for the outbound event node and server.

__ q. Save the configuration.

__ r. Navigate to Security > Global security > Authentication section > RMI/IIOP security > CSIv2 outbound communications

__ s. Click the link 'Trusted authentication realms – outbound'

__ t. Select 'Trust all realms (including those external to this cell)'



__ u. Click Apply

__ v. Save the configuration.

__ w. Restart the server.

__ x. Check SystemOut.log for errors.

© Copyright IBM Corporation 2010. All rights reserved

Part 6: 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 > Global security > Authentication section > Web and SIP 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, for example, ibm.com

4) Select the check box for ‘Interoperability Mode’

5) Clear the check box for ‘Web bound security attribute propagation’

6) Click OK.

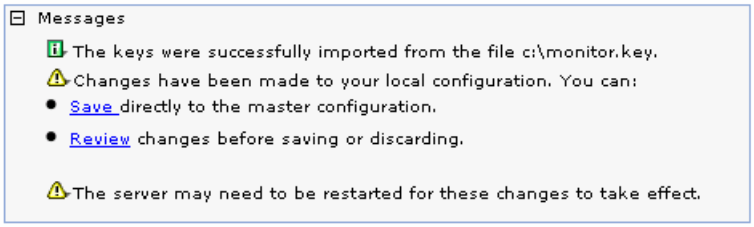
__ c. Click to save the configuration.

__ d. On the Global security page, find the Authentication section, then click the link LTPA

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.



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.

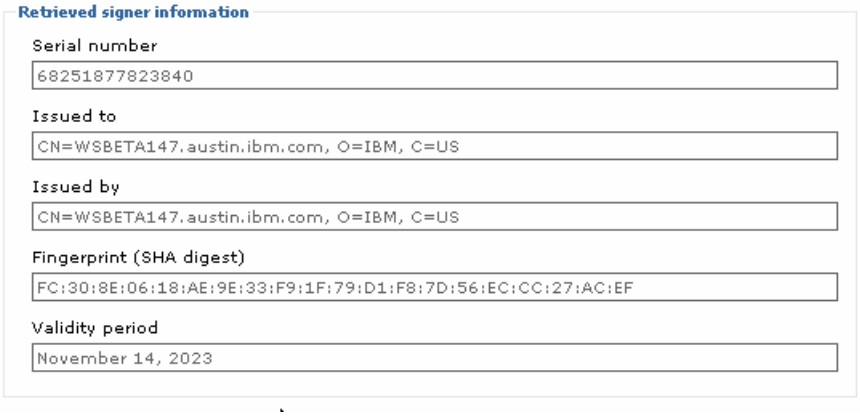
__ d. Enter the remote server port. For example, 8880

© Copyright IBM Corporation 2010. All rights reserved

1) You can verify the monitor server port by logging into the monitor server administrative console and navigating to Servers > Server Types > WebSphere Application Servers > Server1 > Ports.

__ e. Enter the alias as mon70

__ f. Click to retrieve signer information.



__ g. Click Ok.

__ h. Click to save the configuration.

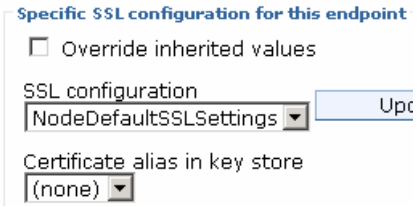
__ i. In the administrative console, navigate to Security > SSL certificate & key management > Manage endpoint security configuration.

__ 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:

__ l. 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.

© Copyright IBM Corporation 2010. All rights reserved

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

____ 1. From the <wps_root>\bin folder of the remote CEI server, run wbmConfigureQueueBypassDatasource. Here is a sample. You will need to substitute the correct cell name of your monitor server, and you need to substitute 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.

To run the script interactively:

wsadmin –lang jython

```
AdminTask.wbmConfigureQueueBypassDatasource('[–interactive]')
```

AdminConfig.save()

To run the script with parameters, here is an example:

wsadmin –lang jython

```
AdminTask.wbmConfigureQueueBypassDatasource('[-monitorCell
WSBETA147Node04Cell -databaseType db2 -jdbcProvider "DB2 Universal
JDBC Driver Provider (XA)" -driverType 4 -databaseName MONDB -
databaseServerName dbsrv3 -databaseServerPort 50000 -user db2admin -
password yourpw]')
```

AdminConfig.save()

```
WASX7278I: Generated command line: AdminTask.wbmConfigureQueueBypassDatasource('
[-monitorCell WSBETA147Node04Cell -databaseType db2 -jdbcProvider "DB2 Universal
 JDBC Driver Provider (XA)" -driverType 4 -databaseName MON7CC -databaseServerNa
me wsbeta147.austin.ibm.com -databaseServerPort 50000 -user db2admin -password *
****]')
"CWMIC0530I: The data source named 'Monitor_WSBETA147Node04Cell_Routing_Database
' was created."
wsadmin>AdminConfig.save()
''
```

____ 2. 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

____ 3. Restart the process server.

____ 4. 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'.

© Copyright IBM Corporation 2010. All rights reserved

© Copyright IBM Corporation 2010. All rights reserved

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

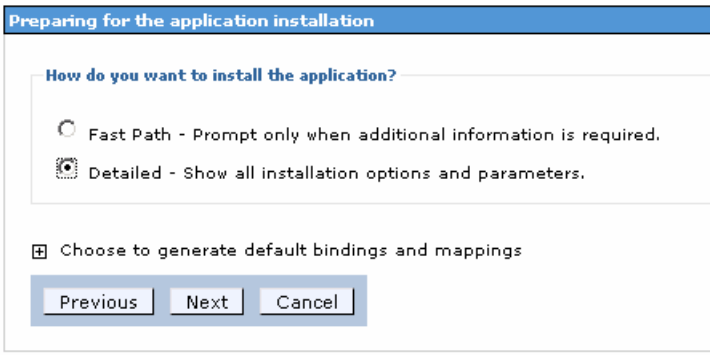
____ 1. On monitor server's administrative console, install the Clips And Tacks model EAR, and specify the remote CEI server configuration.

__ a. Navigate to Applications > New application > New enterprise application

__ b. Browse to the ear file, C:\Labfiles70\RemoteCEIServer\ClipsAndTacksApplication.ear

__ c. Click Next.

__ d. Make sure that you select 'Detailed'.



__ e. Click Next. Click Continue.

__ f. In step 13 (Select monitor model CEI options) specify the remote CEI server.

1) Click location remote, and enter your remote CEI server name and port. For example, aimcp096.austin.ibm.com, 2809.

a) You can verify the remote CEI server port by logging into the remote server administrative console and navigating to Servers > Server Types > WebSphere application servers > Server1 > Ports.

2) 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:

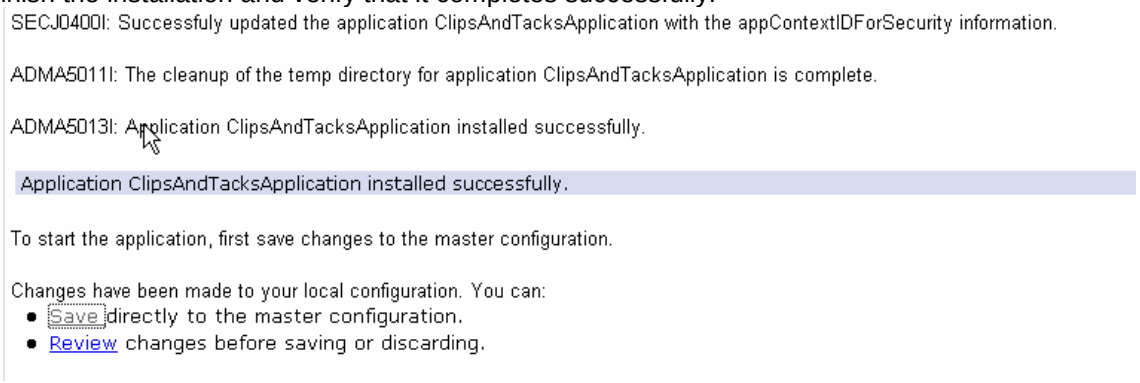
Event group profile list name

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

4) Verify that 'Active (monitor model queue bypass)' is selected on this page:

© Copyright IBM Corporation 2010. All rights reserved

__ g. Finish the installation and verify that it completes successfully:



__ h. Save the configuration.

__ i. Check SystemOut.log for errors. Here is a sample of messages for a successful installation:

1) ApplicationMg A WSVR0221I: Application started: ClipsAndTacksApplication

2) [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. modelID: 'ClipsAndTacks'

4) [12/3/08 10:52:55:968 CST] 00000010 ConsumerDaemo I com.ibm.wbimonitor.mm.ClipsAndTacks.20070911120730.moderator.ConsumerDaemonHandlerImpl 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 will start automatically after installation, so stop it. In the administrative console, navigate to Applications > Application Types > WebSphere enterprise applications > ClipsAndTacksApplication. Select it and click Stop. 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.

© Copyright IBM Corporation 2010. All rights reserved

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 \Labfiles70\ClipsAndTacks\BatchCBEWriter. This program reads XML files which represent the common base events for the model.

You should run this program on the process server not the monitor server in order to test that the remote CEI configuration is working properly.

____ 1. Update BatchCBEWriter61.bat to point WAS_HOME to the CEI server home, for example 'set WAS_HOME=C:\ProcServer70'.

____ 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:\ProcServer70\profiles\ProcSrv01\logs\server1\SystemOut.log . Here is an example of the config.properties settings:

__ a. `connect.serverName = localhost`

__ b. `connect.portNumber = 2809`

____ 3. Open a command window, then change directory to the folder containing BatchCBEWriter61, for example, type this command

__ a. cd \Labfiles70\BatchCBEWriter

____ 4. Run commands to load the common base events to the server.

__ a. batchcbewriter61 -Dsource.filename=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:

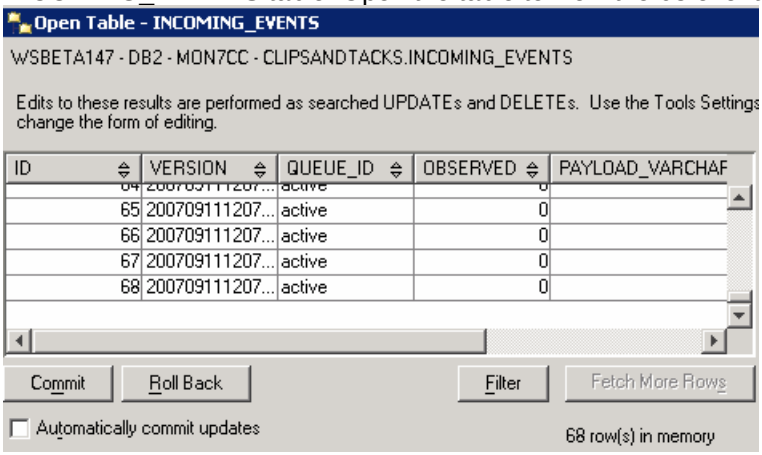
```
C:\Labfiles70\BatchCBEWriter>batchcbewriter61 -Dsource.filename=allevents.xml
Getting CBEs.
Getting Emitter.
Removing GlobalInstanceIds.
Setting missing values.
Changing Instance Ids.
Updating timestamps.
Validating CBEs.
Sending CBEs.
START=12:39:48.843
Sending cbe[10].
Sending cbe[20].
Sending cbe[30].
Sending cbe[40].
Sending cbe[50].
Sending cbe[60].
END=12:40:11.734
TotalTime=22891 milliseconds.
```

____ 6. Check the logs on monitor server and process server for errors.

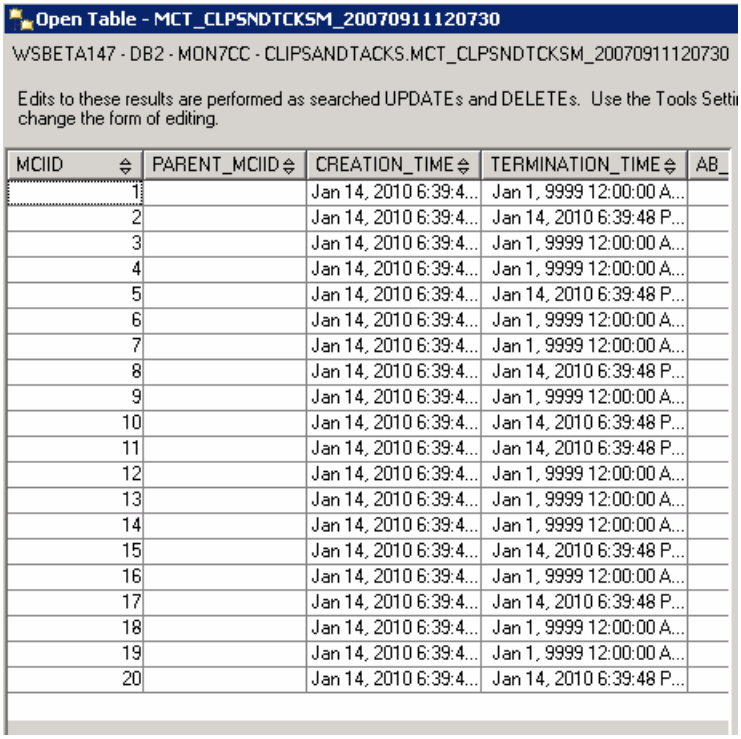
____ 7. Since the Clips and Tacks application is stopped the events should stay in the incoming events table. On the monitor server, open the DB2 control center, and navigate to the

© Copyright IBM Corporation 2010. All rights reserved

INCOMING_EVENTS table. Open the table to view the 68 event records that were submitted:



____ 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:



© Copyright IBM Corporation 2010. All rights reserved

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.