IBM WEBSPHERE BUSINESS MONITOR 6.0 - LAB EXERCISE

Installing the Monitor Server for WebSphere Business Monitor Version 6.0

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What this exercise is about

This lab provides instructions for installing the *Monitor Server* component of WebSphere Business Monitor Version 6.0.

WebSphere Business Monitor typically runs on two servers, and these servers are respectively considered the 'Monitor Server' and the 'Dashboard Client'. This lab describes the Monitor Server installation.

Lab Requirements

List of software required for the student to complete the lab.

- Supported Microsoft Windows operating system, for example Microsoft Windows 2003 Server.
- IBM WebSphere Business Monitor Version 6.0 driver.
- Pre-requisite software (obtained as part of the IBM WebSphere Business Monitor V6 driver):
 - o IBM DB2 Universal Database Enterprise Server Edition
 - o IBM WebSphere Process Server

Note: It is necessary to first complete the Dashboard Client Installation lab. This is because this lab requires access to the Repository database but you will create the Repository database on the Dashboard Client.

Note: This lab should, optimally, be started using a 'clean' machine (i.e. a machine without previous installations of the pre-requisites or the Monitor Server). If your machine is not clean, uninstall previous versions of the pre-requisite software, and then delete the installation folders and the vpd.properties file from C:\Windows\.

What you should be able to do

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

- Install pre-requisite software
- Catalog a remote REPOS database
- Create the STATE database for Monitor
- Install the Monitor Server
- Test installation

Introduction

This is the first of three labs showing how to build a WebSphere Business Monitor V6 environment, such as shown in the picture below. In this lab, the Monitor Server Machine will be built.



This lab will configure the Monitor Server for WebSphere Business Monitor V6. When Monitor V6 is running, this server will collect the events from the processes that execute in the Runtime Server using the Common Event Infrastructure. The Dashboard Client is used to deliver this data to end users who connect using a web browser. Separate labs describe the installation of the Dashboard and Runtime Servers.

The key part of this lab is the **Launchpad**, which is used to install all pre-requisites and the Monitor Server. The Launchpad makes installing the complete set of supporting software very simple.

Monitor Server runs on top of WebSphere Process Server 6.0.0; WebSphere Process Server must be installed as one of the pre-requisites. However, this is not suitable or licensed for running business processes. Business processes must execute in a dedicated runtime server, and WebSphere Process Server V6.0.1 will be configured on a separate server in another lab.

Note: A problem with the CheckPoint Integrity Flex (CPIF) V6.0.116.000 firewall may cause DB2 connections to fail and TCP/IP to stop responding. Typically, the conflicting software causes the installation to stop responding and the system to lockup. Disabling CPIF did not resolve this problem during testing; upon diagnosis of the situation, the pre-requisites had to be reinstalled after CPIF was uninstalled. If you encounter problems, you may try uninstalling CPIF. We recommend that you do not use CPIF, or if you do, be wary of potential problems.

Note: Due to a limitation within DB2, you should not login to Windows when installing Monitor using a userid that contains any of these strings anywhere in the userid: 'sys', 'sql', 'ibm'. If you do, then the databases will not be created, but the Monitor Launchpad may not detect the problem. For example, the userid 'ibmadmin' would not be valid.

Part 1: Preparing the Launchpad

In this part of the lab, the pre-requisite software will be obtained and extracted -- creating the correct on-disk structure for the Launchpad to run.

 Download the following zip files and place them into a directory, C:\Drivers\ for example. Make sure that no other zip files are present in this directory.

```
C88B8NA.zip - WebSphere Business Monitor
C88B9NA.zip - DB2
C88BGNA.zip - WebSphere Process Server
```

2. Using unzip (not Winzip), extract all of the zip files into a directory called C:\CDImage\.

```
cd C:\Drivers\
unzip C88B8NA.zip -d C:\
unzip C88B9NA.zip -d C:\CDImage\
unzip C88BGNA.zip -d c:\CDImage\
```

unzip C88BGNA.zip -d c:\CDImage**NOTE:** Winzip could have problems extracting the number of files and/or the directory structure depth from the source zip files. Use unzip instead, which can be downloaded from the Internet at <u>http://www.info-zip.org/pub/infozip/</u>.

_ 3. Confirm that the directory structure was extracted correctly; it should appear similar to the picture below, although the exact files and dates may vary.

🔄 🗆 🗶					
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>F</u>	File Edit View Favorites Tools Help				
🔇 Back 🔹 🕥 👻 🏂 🔎 Search 🌔	Folders 🕞 😒 🗙 🍤				
Address 🗁 C:\CDImage					💌 🔁 Go
Folders ×	Name 🔺	Size	Туре	Date Modified	Attributes
🚱 Deskton	ESE		File Folder	11/7/2005 8:37 AM	А
E B My Documents	ivm 🔁		File Folder	12/15/2005 11:45 PM	
E V Computer	aunchpad		File Folder	12/15/2005 11:45 PM	
E 4 316 Eloppy (A:)	ProcessServer		File Folder	11/7/2005 9:23 AM	A
$\Box \cong \text{Local Disk}(C)$	🚞 src		File Folder	12/15/2005 11:45 PM	
	🖬 🖬 bom.jar	2,224 KB	JAR File	12/15/2005 11:45 PM	А
T C Documents and Settings	installation_readme.html	24 KB	HTML Document	12/15/2005 11:45 PM	А
Drivers	🐻 launchpad.bat	1 KB	Windows Batch File	12/15/2005 11:45 PM	А
	🚾 launchpad.jar	858 KB	JAR File	12/15/2005 11:45 PM	А
	🖬 monAAMWsLevel.jar	4 KB	JAR File	12/15/2005 11:45 PM	A
	🖬 monrepository.jar	170 KB	JAR File	12/15/2005 11:45 PM	A
The Program Files	🗖 📷 monutil.jar	163 KB	JAR File	12/15/2005 11:45 PM	A
	Readme.html	40 KB	HTML Document	12/15/2005 11:45 PM	А

Part 2: Creating the STATE database – installing the pre-requisite DB2

Launchpad enables easy installation of the pre-requisite software for the Monitor Server. It will also be used to install the Monitor Server capability. To begin, the STATE database used by the Monitor Server will be created. The Launchpad will install the pre-requisite DB2, and then create the STATE database.

_____1. Using the command prompt, open the Launchpad.

cd \CDImad launchpad	ge\ .bat	
WebSphere Business Mo	nitor Launchpad	
WebSphere Busines	ss Monitor	IEM.
Welcome	Welcome to the Launchpad for IBM WebSphere Business Monitor Version 6.0	RX-
Create Databases 🏢	The WebSphere Business Monitor Launchpad will help prepare your computer for the	t
Install Product 👘	installation of the WebSphere Business Monitor product and then install the product.	
The IBM logo and WebSpher ights reserved 2005.	e are trademarks or registered trademarks of IBM Corporation in the US, other countries, or both. All	

_ 2. Select Create Databases, and then select the State database checkbox only.

WebSphere Busines	s Monitor	IEM.
Welcome	Create databases	K
Install Product 🛒	Select the WebSphere Business Monitor databases you want to create.	
Exit	✓ Databases	
	Repository database	
	I State database	
	Runtime database	-/H
	Historical database	
	<back next=""> Start Database Creation</back>	

_____ 3. Click Next.

WebSphere Business More	itor Launchpad	_ 🗆 🗙
WebSphere Busines	s Monitor	IEN.
Welcome	Software prerequisites	X
Install Product	The WebSphere Business Monitor Launchpad has checked your system for the existence of required software prerequisites. These prerequisites are needed to cre the databases you selected. Review the status of each prerequisite.	ate
	Prerequisites IBM DB2 Universal Database Enterprise Server Edition v8.2.1 Install Status	
© The IBM logo and WebSpher rights reserved 2005.	Start Database Creation ere trademarks or registered trademarks of IBM Corporation in the US, other countries, or both. All	

4. The pre-requisite DB2 will show as not installed; the Launchpad will be used to install it. Expand the **IBM DB2 Universal Database Enterprise Server Edition v8.2.1** section and then click **Install.**



5. A warning message will appear telling you to make sure that the 'db2admin' account does not already exist. Be sure to remove any existing "db2admin" userid defined in the system. Click OK.

CWMLP1	006W: Warning: A user account named 'db2admin' exists. 🛛 🔀
1	CVVMLP1005VV: If you wish to continue with this installation, make sure there is no user on this system named "db2admin". If a "db2admin" user account exists, you must either delete it now or cancel this installation and run the DB2 installation manually. Otherwise, the installation will fail.
	OK

6. Select the drive (the C:\ drive is recommended) to install the product and then click OK.



7. Installation will begin and progress silently, as shown:

촱 In pro	gress 🔉	×
•	Installing IBM DB2 Universal Database. Please wait.	
	0%	
📥 In prog	gress 🔰	×
•	Installing IBM DB2 Universal Database. Please wait.	
	8%	

8. When the installation completes, a popup message will appear stating that DB2 has been installed successfully. The popup also instructs you to restart all running programs so that DB2 may be initialized for use. Click **OK**.

WebSph	ere Business Monitor
i	DB2 Universal Database has been installed successfully. Shut down all software programs running on the system now. The programs can then be restarted and DB2 will be ready for use.
	OK.

Note: It is very important that you close the Launchpad at this stage. It is also very important that you close the Command Window that you used to start the Launchpad. If you do not perform these steps then your installation will probably fail but you may not detect the problem until much later.

- 9. You need to close the Launchpad as well as all other applications. Click Exit.
- 10. **Important** You need to close your command window also type exit, or click the close icon.

Now that DB2 is installed, you can also catalog the remote Repository database. You will perform this step in the next section before later returning to the Launchpad to continue the Monitor Server Installation.

Part 3: Catalog the remote Repository and Runtime databases

Note: Before proceeding with this section, it is essential that the Repository database has already been created on the Dashboard Client. This is done in the other installation lab that describes how to install the Dashboard Client. If this is not yet complete, then switch to the other server and complete the Dashboard Client lab before returning back to this point. You should also ensure that the Repository database is currently available and running on the Dashboard Client.

To continue with creating the databases for the Monitor Server, it is necessary for the Monitor Server to have access to the Repository (REPOS) database. In the scenario shown at the beginning of this lab, you can see that the Repository is created on the Dashboard Client. Therefore you must have completed the Dashboard Client Installation lab before proceeding.

Once the Repository exists on the Dashboard Client, you now need to catalog it on the Monitor Server. Cataloging the remote databases makes them available on the local machine. This can be easily achieved using some simple DB2 administration commands.

Additionally, the Monitor Server will need to be able to access the RUNTIME database at runtime (access is not required during installation but it is a good practice to configure it ahead of time so we will do that now).

Note: If you prefer, you can instead choose to use the graphical DB2 Configuration Assistant tool to catalog the databases, but this is slower than entering the commands, especially for such a simple task. However, for reference the alternative steps to complete configuration using the Assistant can be found in the Appendix. We recommend you follow the instructions below instead.

- ____1. Open a DB2 Command Window
 - ____a. Click Start > Run, type db2cmd and click OK
 - 2. Catalog the remote REPOS database
 - ____a. Enter the following command

db2 catalog tcpip node MONITOR remote <dashboard_client_host_name> server 50000

where <dashboard_client_host_name> should be replaced by the DNS name of your Dashboard Client machine, for example:

db2 catalog tcpip node MONITOR remote dashboard.pic.uk.ibm.com server 50000

b. Enter the following commands

db2 catalog DB REPOS as REPOS at node MONITOR db2 catalog DB RUNTIME as RUNTIME at node MONITOR

____ c. Enter the following command

db2 terminate

____ d. Enter the following commands

db2 connect to REPOS user <dashboard_DB2_userid> using <dashboard_DB2_password> db2 connect to RUNTIME user <dashboard_DB2_userid> using <dashboard_DB2_password> where <dashboard_DB2_userid> and <dashboard_DB2_password> should be replaced by the user ID and password for DB2 on the remote Dashboard Client machine (not on the local Monitor Server):

db2 connect to REPOS user db2admin using monPa55w0rd db2 connect to RUNTIME user db2admin using monPa55w0rd

____e. Your results should look as shown below

📾 DB2 CLP	- D ×
C:\>db2 catalog tcpip node MONITOR remote dashboard.pic.uk.ibm.com server 50 DB200001 The CATALOG TCPIP NODE command completed successfully. DB21056W Directory changes may not be effective until the directory cache i refreshed.	1000 🔺
C:\>db2 catalog DB REPOS as REPOS at node MONITOR DB200001 The CATALOG DATABASE command completed successfully. DB21056W Directory changes may not be effective until the directory cache i refreshed.	is
C:\>db2 catalog DB RUNTIME as RUNTIME at node MONITOR DB200001 The CATALOG DATABASE command completed successfully. DB21056W Directory changes may not be effective until the directory cache i refreshed.	is
C:\>db2 terminate DB20000I The TERMINATE command completed successfully.	
C:\>db2 connect to REPOS user db2admin using monPa55w0rd	
Database Connection Information	
Database server = DB2/NT 8.2.1 SQL authorization ID = DB2ADMIN Local database alias = REPOS	
C:∖>db2 connect to RUNTIME user db2admin using monPa55w0rd	
Database Connection Information	
Database server = DB2/NT 8.2.1 SQL authorization ID = DB2ADMIN Local database alias = RUNTIME	
C:\>_	-

Note: If you have already previously cataloged the databases, you will need to uncatalog this old configuration first, before performing the above steps. The following commands allow you to do this:

db2 uncatalog db REPOS
db2 uncatalog db RUNTIME
db2 uncatalog node MONITOR
db2 terminate

Part 4: Creating the STATE database – continued

Now that the Repository database is cataloged, you can return to creating the STATE database.

Note: When the Launchpad creates the State database, it will update information in the Repository database at the same time. Therefore you must ensure that the Repository database is available and started on the Dashboard Client machine before proceeding.

- 1. Open a new Command Window and start the Launchpad as before.
- 2. Select Create Databases, select the State database again and click Next.

🜐 WebSphere Business Mor	nitor Launchpad	_ 🗆 ×
WebSphere. Busines	s Monitor	IBM.
Welcome	Create databases	K
Install Product 👘	Select the WebSphere Business Monitor databases you want to create.	
Exit 🕸	 Databases Repository database State database Runtime database Historical database 	A
© The IBM logo and WebSphere rights reserved 2005.	«Back Next» Start Database Creation a are trademarks or registered trademarks of IBM Corporation in the US, other countries, or both. All	

3. Verify that the Launchpad indicates DB2 has been installed.

WebSphere Business Mo	onitor Launchpad	
WebSphere Busines	ss Monitor	TEN.
Welcome	Software prerequisites	X
Install Product 👘 Exit 👘	The WebSphere Business Monitor Launchpad has checked your system for the existence of required software prerequisites. These prerequisites are needed to create the databases you selected. Review the status of each prerequisite.	
	Prerequisites IBM DB2 Universal Database Enterprise Server Edition v8.2.1 Install Status	
© The IBM logo and WebSpher rights reserved 2005.	<back next=""> Start Database Creation re are trademarks or registered trademarks of IBM Corporation in the US, other countries, or both. All</back>	

4. Click Start Database Creation.

5. You will see the following warning message about the Repository database. This is expected behavior because you have created the Repository database on another (remote) server when you installed the Dashboard Client.

Cannot find Repository information.
CV/MLP1015W: The Repository database information is not available in the CommonInstallParam.tcl file.
If the Repository database exists on a remote machine,
make sure that the database is cataloged on this machine, and
then click OK to enter the database information.
If the Repository database is planned to be on this machine,
click Cancel to stop the current install, and
then use the launchpad to create the Repository database.
OK Cancel

Note: To proceed past this point you must have created the Repository database on the Dashboard Client by following the Dashboard Client installation lab. You must also have cataloged the remote Repository database on the Monitor Server.

- ____ 6. Click **OK**
- ____7. Complete the dialog for the Repository database as shown below

🌲 Repository database information 💦 🗙				
Database name:	REPOS			
Database schema:	REPOS			
User ID:	db2admin			
Password:	****			
Confirm password:	****			
ОК	Cancel			

- _____ 8. Click **OK**
- 9. Read and accept the license agreement and the non-IBM terms and then click Next.

🚔 WebSphere Business M	Ionitor Installer
	Software License Agreement
	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
and the second second	- DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, OR USE THE PROGRAM;
	Read non-IBM terms
	accept both the IBM and the non-IBM terms
	O I do not accent the terms in the license agreement
InstallShield	
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

_____ 10. Accept the default directory and then click Next.

🚔 WebSphere Business Me	onitor Installer	
	Click Next to install "IBM WebSphere Business Monitor Version 6.0" to or click Browse to install to a different directory.	o this directory,
	Directory Name:	
	C:\IBMWVebSphere\Monitor	
		B <u>r</u> owse
InstallShield		
	< <u>B</u> ack <u>Next</u> >	<u>C</u> ancel

11. Specify the database information for the STATE database -- enter and confirm the password for the db2admin userid. The default password is **monPa55w0rd**, unless it was changed after installing DB2. Two *existing* directories must be specified on the file system for storing database backups and table spaces (therefore you may need to manually create these directories first). The directory names can be typed or navigated to by clicking **Browse** to select them. Click **Next** after the directories are selected.

🚖 WebSphere Business Mor	itor Installer				
271	Name:	STATE			
	Schema:	WBI			
	User ID:	db2admin			
	Password:	*****			
	Confirm password:	*****			
	Backup directory:	C:\Monitor\Backup			
			B <u>r</u> owse		
	Table Space directory:	C:\Monitor\Tablespace			
			Browse		
	Туре:	O DB2			-
InstallShield					
		< <u>B</u> ack	<u>N</u> ext ≻	<u>C</u> a	ncel

____ 12. Review the summary, and then click **Next** to start the database creation.

Important: When the database is being created, there will be multiple windows opening and closing as the scripts execute. It is recommended that the keyboard and mouse are not used until this has completed.

🚔 WebSphere Business Mo	nitor Installer
	IBM WebSphere Business Monitor Version 6.0 will be installed in the following location: C:\IBMWebSphere\Monitor with the following features: Monitor Databases STATE Database
	59.2 MB
Instalishield	
	< <u>Back</u> ancel

- _____13. The database creation will proceed silently.
- _____14. When the installation is complete, click Finish.

🚔 WebSphere Business Monitor Installer 📃 🗔 🗙			
	The selected features have been installed.		
	The InstallShield Wizard has successfully installed IBM WebSphere Business Monitor Version 6.0. Choose Finish to exit the wizard.		
InstallShield	< Back Next > Finis	h	

15. The installer will now check the status of the database.



Note: The DB2 Control Center can also be used to confirm that all databases were created (**Start > All Programs > IBM DB2 > General Administration Tools > Control Center**). Under the "All Databases" folder, there should be three databases listed, STATE, RUNTIME and REPOS. RUNTIME and REPOS are the previously cataloged remote databases.



_____ 16. When the windows close and only the Launchpad appears, the database creation is complete.

Part 5: Catalog the State database on the Dashboard Client

When you deploy business measures model to your WebSphere Business Monitor installation, you will execute scripts for data replication between the STATE, RUNTIME and HISTORY databases. Some of these scripts will execute on the Dashboard Client machine, but will need to be able to access the STATE database you just created on the Monitor Server.

Therefore you will now catalog the STATE database on the Dashboard Client machine so that it can connect to the Monitor Server's STATE database remotely.

Note: If you prefer, you can instead choose to use the graphical DB2 Configuration Assistant tool to catalog the database, but this is slower than entering the commands, especially for such a simple task. However, for reference you can use similar steps as shown in the Appendix if you prefer to use the Configuration Assistant. If you do this be sure to run the Configuration Assistant on the Dashboard Client, and catalog the State database, not the Repository. We recommend you follow the instructions below instead.

- ____1. **Important:** Switch to the Dashboard Client server that you created in the previous installation lab.
- _____ 2. Open a DB2 Command Window

____a. Click Start > Run, type db2cmd and click OK

____ 3. Catalog the remote STATE database

____a. Enter the following command

db2 catalog tcpip node MONITOR remote <monitor_server_host_name> server 50000

where <monitor_server_host_name> should be replaced by the DNS name of your Monitor Server machine, for example:

db2 catalog tcpip node MONITOR remote monitor.pic.uk.ibm.com server 50000

____b. Enter the following command

db2 catalog DB STATE as STATE at node MONITOR

____ c. Enter the following command

db2 terminate

____ d. Enter the following command

db2 connect to STATE user <monitor_DB2_userid> using
<monitor_DB2_password>

where <monitor_DB2_userid> and <monitor_DB2_password> should be replaced by the user ID and password for DB2 on the remote Dashboard Client machine (not on the local Monitor Server):

db2 connect to STATE user db2admin using monPa55w0rd

____e. Your results should look as shown below

🖾 DB2 CLP
C:\Documents and Settings\Administrator>db2 catalog tcpip node MONITOR remote mo nitor.pic.uk.ibm.com server 50000 DB200001 The CATALOG TCPIP NODE command completed successfully. DB21056W Directory changes may not be effective until the directory cache is refreshed.
C:\Documents and Settings\Administrator>db2 catalog DB STATE as STATE at node MO NITOR DB200001 The CATALOG DATABASE command completed successfully. DB21056W Directory changes may not be effective until the directory cache is refreshed.
C:\Documents and Settings\Administrator>db2 terminate DB20000I The TERMINATE command completed successfully.
C:\Documents and Settings\Administrator>db2 connect to STATE user db2admin using monPa55w0rd
Database Connection Information
Database server = DB2/NT 8.2.1 SQL authorization ID = DB2ADMIN Local database alias = STATE
C:\Documents and Settings\Administrator>_

Note: If you have already previously cataloged the database, you will need to uncatalog this old configuration first, before performing the above steps. The following commands allow you to do this:

db2 uncatalog db STATE db2 uncatalog node MONITOR db2 terminate

Part 6: Installing the Monitor Server

The Launchpad will also be used to install the WebSphere Business Monitor. Specifically, the remaining pre-requisite (WebSphere Process Server) will be installed and then the Monitor Server functionality will be installed on top of that. This will complete the installation of the Monitor Server.

- 1. From the Launchpad (refer to the beginning of the lab if you need to re-open it) click **Install Product** on the left hand menu.
- _____2. Select the Monitor Server checkbox and then click Next.

🛞 WebSphere Business Mo	nitor Launchpad	
WebSphere. Busines	s Monitor	
Welcome	Select features	
Install Product	Select the WebSphere Business Monitor features you want to install.	
Exit ⊯	☐ Dashboard Client ✓ Monitor Server	A
	<back next=""> Start Monitor Insta</back>	allation
© The IBM logo and WebSphere rights reserved 2005.	are trademarks or registered trademarks of IBM Corporation in the US, other countries	, or both. All

3. Notice that the DB2 pre-requisite is already installed from the databases that were created earlier. Expand the **IBM WebSphere Process Server v6.0.0.0** section and then click **Install.**



_4. The installer needs a userid and password for the CEI user. Enter 'db2admin' and 'monPa55w0rd' for the passwords, unless the defaults were changed (in which case, supply the correct values). Click OK.

絭 CEI Database User Information 🛛 🔀				
User ID	: db2admin			
Password: *********				
Confirm password: *********				
ок	Cancel			

___5. Select the installation drive – we use the default C:\.

WebSph	ere Business Monitor
?	Select a drive on which you would like to install this product.
	OK Cancel

_6. The installation will begin and progress silently, as shown below.

Be patient: the installation will take a while to complete (approximately an hour).

🛓 In progress 🗙	1
Installing WebSphere Process Server. Please wait.	
0%	
	_
🛓 In progress 🗙	1
Installing WebSphere Process Server. Please wait.	
9%	
🔹 In progress 🗙]
Installing WebSphere Process Server. Please wait.	
99%	

7. When the installation completes, verify that the Launchpad indicates WebSphere Process Server is installed.

🜐 WebSphere Business Mor	itor Launchpad	
WebSphere Busines	s Monitor	TEN.
Welcome	Software prerequisites	R
Install Product	The WebSphere Business Monitor Launchpad has checked your system for the existence of required software prerequisites. These prerequisites are needed to install the features you selected. Review the status of each prerequisite.	
	Prerequisites IBM DB2 Universal Database Enterprise Server Edition v8.2.1 Install Status	
	 IBM WebSphere Process Server v6.0.0.0 Install Status IBM WebSphere Process Server v6.0.0.0 is used to support WebSphere Business Monitor. This prerequisite has been satisfied. 	
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- 8. Click the **Start Monitor Installation** button.
- 9. You will be prompted with the same warning as earlier about the Repository database. Click OK.

Cannot find Repository information.
CVVMLP1015VV. The Repository database information is not available in the CommonInstallParam.tcl file. If the Repository database exists on a remote machine, make sure that the database is cataloged on this machine, and
then click OK to enter the database information.
If the Repository database is planned to be on this machine, click Cancel to stop the current install, and then use the launchpad to create the Repository database.
OK

_____ 10. Specify the information for the remote Repository database as shown below:

≜ Repository dat	abase information 🛛 🔀
Database name:	REPOS
Database schema:	REPOS
User ID:	db2admin
Password:	*****
Confirm password:	****
ок	Cancel

_____11. Read and accept the license agreement and non-IBM terms. Click **Next**.

👙 WebSphere Business M	onitor Installer	
	Software License Agreement	
	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 ARI ACCEPTING THESE TERMS ON BEHALF OF ANOTHER PERSON OR A COMPANY OR OTHER LEGAL ENTITY, YOU REPRESENT AND WARRANT YOU HAVE FULL AUTHORITY TO BIND THAT PERSON, COMPANY, OR LEG ENTITY TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS,	E THAT SAL
	F DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, OR USE THE PROGRAM	¹;
	Read non-IBM terms	
	I accept both the IBM and the non-IBM terms	
	$\mathbf C$ I do not accept the terms in the license agreement	
InstallShield		
	< <u>B</u> ack <u>N</u> ext ≻ <u>C</u> ar	ncel

_____12. Review the WebSphere Application Server information. Click **Next.**

🚔 WebSphere Business Mor	nitor Installer		
EM	Specify the WebSphe	re Application Server information:	
<u>n</u>	Profile name:	NebSphere\ProcServer\profiles\monitor	
		Browse	
	Cell name:	monitorNode01Cell	
	Node name:	Node01	
	Server name:	server1	
	Generation directory:	C:\IBM\WebSphere\Monitor\generation	
and the second second		Browse	
InstallShield	,		
		< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel

13. Provide and confirm the password for DB2 (the default is **'monPa55w0rd'** on Windows) and then click **Next.**

🚔 WebSphere Business Mor	itor Installer	l.	_ 🗆 X
	Specify the databas	e information for the Action Catalog database:	
	Name:	AAMCAT	
	Hostname:	monitor	
	Port:	50000	
	User ID:	db2admin	
	Password:	*****	
	Confirm password:	*****	
	Туре:	OB2	
InstallShield			
		< Back Next > Cano	<u> </u>

🚔 WebSphere Business Mo	nitor Installer
	IBM WebSphere Business Monitor Version 6.0 will be installed in the following location:
	C:\IBM\WebSphere\Monitor
	with the following features:
	Monitor Server Monitor Server Application Monitor Server Administrative Console
	for a total size:
	54.8 MB
InstallShield	
	< <u>B</u> ack <u>Next</u> > <u>C</u> ancel

_____14. Review the summary and then click **Next** to start the installation.

____ 15. The installation will begin and progress silently, as shown below.

Be patient: the installation will take a while to complete. It may also seem to stop at certain progress percentages, for example at 42%.

絭 WebSphere Business Mor	nitor Installer	
	Installing IBM WebSphere Business Monitor Version 6.0. Please wait	
	4%	
InstallShield		
	< <u>B</u> ack <u>N</u> ext > <u>C</u> a	ncel
🚔 WebSphere Business Mor	nitor Installer	
E.	Installing IBM WebSphere Business Monitor Version 6.0. Please wait	
	88%	
InstallShield		
	< <u>B</u> ack <u>N</u> ext > <u>C</u> a	ncel

____ 16. After the installation completes, click **Finish.**

≜ WebSphere Business Me	onitor Installer 📃 🖂 🔀
	The selected features have been installed.
	The InstallShield Wizard has successfully installed IBM WebSphere Business Monitor Version 6.0. Choose Finish to exit the wizard.
InstallShield	
	< <u>B</u> ack Next > Finish

_____17. Click Exit (located in the frame to the left) to close the Launchpad.

🜐 WebSphere Business Mon	itor Launchpad	_ 🗆 🗙
WebSphere. Busines	s Monitor	TEM.
Welcome	Select features	X
Install Product	Select the WebSphere Business Monitor features you want to install.	
Exit ⊯	☐ Dashboard Client Monitor Server	
	<back next=""> Start Monitor Installation</back>	
© The IBM logo and WebSphere rights reserved 2005.	are trademarks or registered trademarks of IBM Corporation in the US, other countries, or both. All	

Part 7: Testing the installation

After the installation, a basic test can be conducted to validate that the server is working correctly.

- _____1. Start the server, if it is not already running.
 - _____a. Select Start > All Programs > IBM WebSphere > Process Server v6.0 > profiles > monitor > Start the server, and then wait for the command window to close.
- Confirm that the Administrative Console has the WebSphere Business Monitor capability.
 - ____ a. Log into the Administrative Console by selecting Start > All Programs > IBM WebSphere > Process Server v6.0 > profiles > monitor > Administrative Console, and then specifying any user and clicking the Log in button.
 - b. Notice the WebSphere Business Monitor section to the left of the webpage. Expand this section (and all subsections), and compare the available options with the picture below. If the settings match, the installation tests successfully.



What you did in this exercise

In Part 1, the necessary zip files were obtained and extracted into the correct directory structure for the Launchpad.

In Part 2, the Launchpad was used to install the DB2 pre-requisite.

In Part 3, the DB2 Configuration Assistant was used to catalog the remote REPOS and RUNTIME databases that were already installed on the Dashboard Client.

In Part 4, the Launchpad was used to create the STATE database for the Monitor Server.

In Part 5, the remaining pre-requisite, WebSphere Process Server, was installed. The WebSphere Business Monitor Server was then installed on top of the WebSphere Process Server.

In Part 6, the installation was tested.

Appendix – How to catalog the Repository database using the DB2 Configuration Assistant

This section describes the alternative method for cataloging the Repository database using the graphical DB2 Configuration Assistant instead of administration commands at the command prompt.

3. To start the IBM DB2 Configuration Assistant, go to the start menu and select Start > All Programs
 > IBM DB2 > Set-up Tools > Configuration Assistant.



____4. When prompted by the Configuration Assistant, select **Yes** to add a database.

📑 DB2 Message	×
(1)	Welcome to the IBM DB2 Configuration Assistant. Would you like to add a database now?
	<u>Yes</u> <u>N</u> o

Note: If no prompted appears asking whether you want to add a database, right click in the white space and choose **Add Database Using Wizard...** from the context menu.

5. Select Manually Configure a Connection to a database and click Next.

🎬 Add Data	ibase Wizard
1. Source	Select how you want to set up a connection
2. Protocol	Use this wizard to help you configure a connection to a DB2 database. When you or one of your application programs needs to connect to a database, you establish the connection by communicating with the server on which the database resides. Each DB2 client maintains a list of the databases to which it knows how to connect. This wizard lets you add databases to that list(<u>Task Overview</u>).
	C Lise a profile
	Select if you have a file containing all the necessary information for accessing a remote server. Typically, your database administrator will provide you with the name of the access profile that contains all the information necessary to configure connections to the required databases.
	C Search the network
	Select to find databases on your local network.
	Manually configure a connection to a database
	Select if you know all the information necessary to connect to the desired database. This includes the protocols supported by the remote server, the connection configuration information, and the name of the database.
	<u>N</u> ext ► <u>Finish</u> Cancel

6. Select **TCP/IP** and click **Next**.

📰 Add Data	base Wizard
1. Source	Select a communications protocol
2. Protocol 3. TCP/IP	Select the communications protocol that you want to use to connect to the DB2 database. If you are using SNA, select APPC as the protocol. Indicate if your database is located on a host or OS/400 system. If your client has DB2 Connect installed and the selected database is a gateway connection, then select the type of connection route to the server.
5. Data So	C REPIRE C NEEBIOS
<u>6</u> . Node O	C APPC C Named pipes (NPIPE)
7. System 8. Securit	
	The database physically resides on a host or OS/400 system.
	Connect directly to the server
	Connect to the server via the gateway
	Back Next ► Finish Cancel

7. Enter the DNS of your Dashboard Client in the Host name field. Enter the port number for DB2 on your Monitor Server in the Port number field (the default value is 50000, which will be unchanged if the Launchpad was used when installing the Dashboard Client). Click **Next.**

🖉 Add Database W	Vizard
L.Source	Specify TCP/IP communication parameters
2. Protocol	You must provide the communication information required to connect to the database that you want to add. Your database
3. TCP/IP	administrator can provide the information necessary to configure communications for a database connection. If you specify a Service name only, there must be an existing service name entry in the TCP/IP services file.
<u>i</u> . Database	
. Data Source	Host name dashboard.pic.uk.ibm.com
j. Node Options	Service name
7. System Options	Port number 50000 Retrieve
 Security Options 	
	▲ <u>Back</u> Next ► Finish Cancel

8. Enter **REPOS** for the database name. The database alias field will auto-fill with the same value. Click **Next**.

📲 Add Database W	/izard	×
1. Source	Specify the	e name of the database to which you want to connect
2. Protocol	You must identify	y the database to which you are connecting. The database name is dependent on the type of server to which you are
3. TCP/IP	specify the DBN/	AME. Otherwise use the name of the database on the server.
4. Database	Database waws	Introd
<u>5</u> . Data Source	Database hame	
6. Node Options	Database alias	REPOS
7. System Options	Comment	
8. Security Options		,

9. Accept the defaults for registration of the datasource and click **Next**.

🕌 Add Database W	izard X
1. Source	Register this database as a data source
1. Source 2. Protocol 3. TCPAP 4. Database 5. Data Source 6. Node Options 7. System Options 8. Security Options	Register this database as a data source The ODBC (Open Database Connectivity) interface allows different programs to access relational databases. If ODBC applications will be using this database, then you must specify how it should be registered. A system data source is available to all users on the system. A user data source information. This data source file can be shared with other workstations if you have a TCP/IP connection. Otherwise the file can only be used on this machine. You can optimize the data source settings for a particular application by selecting it from the list. Register this database for ODBC Ag system data source (As user data source) Ag system data source (As user data source) Ag system data source (As user data source) Data source name [REPOS] Optimize for application None
	▲Back Next ► Einish Cancel

_____10. Select **Windows** from the Operating System dropdown box. Click **Next.**

1. Source	Specify the	node options	
, Protocol , TCP/IP , Database Data Source	Operating system	The following information in order to configure the node for the database connection. Windows DB2]
Node Options System Options Security Options	Comment		

_____11. Enter the first part of the Dashboard Client's DNS name in the System name field. Click Next.

📰 Add Database W	'izard				×
1. Source	Specify the	system options			
2. Protocol	You must provide t	the following information in order to config	ure the system for the dat	abase connection.	
<u>З</u> . ТСР/IP	System name	dashboard		Discover	
4. Database	Heat name	dealshaavd pie uik ikw aaw			
5. Data Source	nostname	dashboard.pic.uk.ibm.com		view Details	
6. Node Options	Operating system	Windows		–	
7. System Options	Comment				
o. Security Options					
					• —
II			4 Dee	k bloot b	Einich Concel
			_ ∎ ac	Next P	

_____12. Accept the default security options and click Finish.

📰 Add Database W	izard	×
Add Database W 1. Source 2. Protocol 3. TCP/IP 4. Database 5. Data Source 6. Node Options 7. System Options 8. Security Options	Specify the security options Specify the security option that will be used for authentication. Ise authentication value in server's DBM Configuration Ise authentication (CLIENT) Server authentication (CLIENT) Server authentication (SERVER) Image: principal name OSS plugin authentication (KERBEROS) Target principal name OSS plugin authentication (DATA_ENCRYPT) Enable TOPAP SOCKS security	
	< Back	Finish Cancel

_____ 13. Click **Test Connection.**

🛒 Add Database Confirmation - REPOS 🛛 🛛 🔀							
The configuration for database 'REPOS' was added successfully.							
You can: Exit the Add Database Wizard by clicking Close. Add another database by clicking Add. Change the database configuration by clicking Change. Test the connection to the database by clicking Test Connection.							
Close Add Change Test Connection							

14. Enter the userid and password for DB2 on the Monitor Server. The defaults are to **db2admin** and **monPa55w0rd**.

ų,	⁽ Test Coni	nection - REPOS 🛛 🗙						
Co	onnections	Results						
[Select connection type							
	🔲 <u>S</u> tand	ard CLEDB						
	CLI 🟹	☐ JDBC						
L	Jser ID	db2admin						
P	assword	******						
		Test Connection						
		Cancel Help						

_____15. Click Test Connection.

🚝 Test Connection - REPOS	×
Connections Results	
CLI connection tested successfully.	Clear
Cancel	Help

- _____16. Click **Cancel** to clear the test results.
- _____ 17. Click **Close** on the Add Database Confirmation dialog.



18. You should see the REPOS database successfully cataloged:

Ļ	Configu	ratior	n Ass	istan	ıt										_ 🗆 >	K
2	onfigure	Select	ted	Ediţ	⊻iew	<u>T</u> oo	ls	<u>H</u> elp								
6	6 4	않	C>	55	iş,		و ت	3	e {	¢®	$\langle 0$	2				Ś
M	ONITOR - I	DB2									1					1
	Alias		÷	Name	Э	ŧ	€ [Targe	t Data	base \$: Lo	cation	ŧ	} (Commerr	
	REPOS			REPO	S						ND	E95CF4				
	4															
	1 of 1	items (displa	yed	\downarrow^{A}	z S	Þ	₫₽	¢۹	$\boldsymbol{h}_{\Phi}^{\Phi}$	₽"	Defau	ult View	•	View	

_ 19. Right click to add another database and perform the equivalent steps for the RUNTIME database:

20. When both databases are cataloged, close the DB2 Configuration Assistant

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