Installing WebSphere[®] Business Monitor V6.0.2 - Basic

| What this exercise is about | 2 |
|---|----|
| Lab requirements | 2 |
| What you should be able to do | 2 |
| Exercise instructions | 3 |
| Introduction | 4 |
| Part 1: Preparing for the Monitor V6.0.2 Launchpad | 6 |
| Part 2: Installing Monitor Server and Dashboard client | 8 |
| What you did in this exercise | 26 |
| Task 1: Pre-install Monitor prerequisites | 27 |
| Appendix 1: Uninstalling WebSphere Business Monitor and its prerequisites | |
| Appendix 2: Hints and troubleshooting | 29 |
| | |

What this exercise is about

The objective of this lab is to provide instructions for installing WebSphere Business Monitor V6.0.2 using the **Basic** installation type.

Lab requirements

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

- WebSphere Business Monitor V6.0.2
- WebSphere Process Server V6.0.2
- WebSphere Application Server V6.0.2.17
- WebSphere Portal Server V5.1.0.4
- DB2[®] UDB Enterprise Server Edition V8.2.6
- DB2 Cube Views V8.2.6
- Alphablox V8.4.0

What you should be able to do

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

- Install DB2 UDB Enterprise Server Edition V8.2.6 and DB2 Cube Views V8.2.6
- Install WebSphere Application Server V6.0.2.17 and WebSphere Portal Server V5.1.0.4
- Install WebSphere Process Server V6.0.2
- Create MONITOR and DATAMART databases
- Install WebSphere Business Monitor Server and Dashboard Server

Exercise instructions

Some instructions in this lab may be Windows[®] operating-system specific. If you plan on running the lab on an operating-system other than Windows, you will need to run the appropriate commands, and use appropriate files (.sh vs. .bat) for your operating system. The directory locations are specified in the lab instructions using symbolic references, as follows:

| Reference Variable | Windows Location | AIX [®] /UNIX [®] Location |
|---|--|--|
| <monitor_home></monitor_home> | C:\IBM\WebSphere\Monitor | |
| <wps_home></wps_home> | C:\IBM\WebSphere\ProcServer | |
| <db2_home></db2_home> | C:\IBM\DB2\SQLLIB | |
| <was_home></was_home> | C:\IBM\WAS | |
| <portal_home></portal_home> | C:\IBM\PortalServer | |
| <alphablox_home></alphablox_home> | C:\IBM\Alphablox | |
| <db2_backup_dir></db2_backup_dir> | <monitor_home>\dbbackup</monitor_home> | |
| <db2_tablespace_dir></db2_tablespace_dir> | <monitor_home>\dbspace</monitor_home> | |

Windows users note: When directory locations are passed as parameters to a Java[™] program such as EJBdeploy or wsadmin, it is necessary to replace the backslashes with forward slashes to follow the Java convention.

Introduction

WebSphere Business Monitor V6.0.2 Basic installation is used to install all the Monitor components on a single machine. The Basic installation type is ideal for quick prototyping, proof of concepts, demonstrations and testing.

The key part of this lab is the **Launchpad** program, which is used to install all the pre-requisites and the Monitor Server components. The improved Launchpad program makes installing the complete set of supporting software very simple. This improved Launchpad program also supports the incremental installation, leveraging the existing pre-requisite product installations.

As stated above, the Basic installation is used to install all the Monitor components on a single machine. The Monitor Server runs on top of WebSphere Process Server V6.0.2; WebSphere Process Server V6.0.2 is installed as one of the pre-requisites. The Dashboard Server runs on WebSphere Portal Server which in turn runs on a WebSphere Application Server.



WebSphere Business Monitor Server V6.0.2 includes the following new installation features and improvements:

• Launchpad now supports incremental installation. The pre-requisite products can be installed manually outside of the Launchpad environment, and then Monitor can be incrementally installed "on top of" these prerequisite products

- You can select from Basic and Advanced types depending on the stage of use (prototyping or production). Basic installation type uses many default options, reducing complexity, while Advanced includes flexibility required in production installs
- The WebSphere Portal Server footprint size is reduced (skips Content Management)
- The number of databases has been reduced from five to two. The number of database replications is reduced from two to one. Database tables and columns now have simpler, more meaningful names
- Database Architecture is simplified to only MONITOR and DATAMART (formerly called HISTORY) databases
- The product includes silent install capability for Monitor features such as the database, Monitor server, and the Dashboard server
- The Launchpad gives you a choice to use DB2 as the Process Server database
- Overall install process time has been cut by more than 50%

Part 1: Preparing for the Monitor V6.0.2 Launchpad

In this section of the lab, the pre-requisite software will be obtained and extracted.

Obtain the pre-requisite software and extract in such a way to create the correct on-disk structure for the Launchpad to run

- 1. The following are the installation files needed to install the WebSphere Business Monitor V6.0.2
 - ____a. Alphablox_v840.zip (Alphablox V8.4.0)
 - ____b. CUBE_v826.zip (DB2 CUBE Views V8.2.6)
 - ____ c. ESE_v826.zip (DB2 UDB Enterprise Server Edition V8.2.6)
 - ____d. Portal_v5104.zip (WebSphere Portal Server V5.1.0.4)
 - ____e. ProcessServer_*.zip (WebSphere Process Server V6.0.2)
 - ____f. WAS_v60217.zip (WebSphere Application Server V6.0.2.17)
 - ____g. Monitor_v602.zip (WebSphere Business Monitor V6.0.2)

Note: Portal Server does not support WebSphere Process Server V6.0.2 and therefore it cannot be installed on the WebSphere Application Server that comes with the WebSphere Process Server V6.0.2 installation. A separate WebSphere Application Server V6.0.2.17 installation is required.

2. Download all the installation zip files to a directory for example : C:\MonitorDrivers-v602

Note: WinZip versions before version 10 could have problems extracting the number of files or the directory structure depth from the source archive (.zip) files. Use unzip instead, which can be downloaded from the Internet at <u>http://www.info-zip.org/pub/infozip/</u>.

____ a. Extract all of the .zip files into a directory named for example, C:\CDImage-v602\ to create an ondisk image and confirm that the directory structure was extracted correctly. It should appear similar to the picture shown below:

| _ | | | | | | |
|----------------|--------------|-----------|--------------------|---------------|--------------|-------|
| 🗁 C: \ | CDIm | age-v6 | 02 | | | - 🗆 × |
| <u>F</u> ile | <u>E</u> dit | ⊻iew | F <u>a</u> vorites | <u>T</u> ools | <u>H</u> elp | |
| 🕝 Ва | ack 👻 | • | 彦 🔎 s | earch 厦 | 🏷 Folders | » |
| A <u>d</u> dre | ss 🛅 | C:\CDI | mage-v602 | | • | 🗲 Go |
| 🛅 Alp | hablox | | | | | |
| 🛅 cu | BE | | | | | |
| 🛅 ESI | E | | | | | |
| 🛅 jvn | n | | | | | |
| 🛅 lafi | iles | | | | | |
| 🛅 Lai | unchpa | Ч | | | | |
| 🛅 Poi | rtal5104 | 4 | | | | |
| 🛅 Pro | ocessSe | rver | | | | |
| 🛅 sro | | | | | | |
| i 🔁 🗤 | 4S | | | | | |
| eins | tallatior | n_readm | ie.html | | | |
| 🛂 LAI | PApp.ja | ar | , | Nor | itor | |
| Iau | inchpad | .bat | κ | La | inchpad | 1 |
| [lau | inchpad | l.jar | | | - | |
| [🔄 mo | nAAMV | VsLevel. | jar | | | |
| [🔄 mo | nreposi | itory.jar | | | | |
| 📳 mo | nutil.jai | r | | | | |
| e rea | adme.ht | tml | | | | |
| 🔟 sile | entinsta | II.win | | | | |
| | | | | | | |

Note: If using WinZip, right-clicking on the .zip files and selecting "**Extract here**" from the context menu produces the correct directory structure for the Monitor Launchpad to detect the pre-requisite software.

Part 2: Installing Monitor Server and Dashboard client

The Launchpad program installs the prerequisite software in a premeditated sequence; however, the Launchpad program also detects the prerequisite software if they were pre-installed. The installation sequence for pre-installing the Monitor pre-requisite software out of the Monitor Launchpad can be found at the end of the document, in the section "Task1: Pre-install the Monitor prerequisites"

The following prerequisites are mandatory before running the Launchpad program:

The Launchpad program expects the following prerequisites for the WebSphere Process Server and WebSphere Application Server installations

Note: Since this is a single machine topology, one user can be used for both the WebSphere Process Server and WebSphere Application Server.

Create WebSphere Process Server user

- The WebSphere Process Server user must be an Operating System user with administrative privileges
- The existing **Administrator** user ID can be as the WebSphere Process Server user
- If planned to create and use a user other than Administrator, create a user for example **wpsadmin** and ensure the user is the member of **Administrators** group. Don't forget to remember the password

Create WebSphere Application Server user

- The WebSphere Application Server user must be an Operating System user with administrative privileges
- The existing Administrator user ID can be as the WebSphere Application Server user
- If planned to create use a user other than Administrator, create a user for example **wasadmin** and ensure the user is the member of **Administrators** group. Don't forget to remember the password

The following pre-requisite is not mandatory but if you want to:

Note: The Launchpad creates the DB2 user and groups if they do not exist during the DB2 installation.

Create DB2 Administrator user, DB2 Administrator groups

- The DB2 Administrator user must be an Operating System user with administrative privileges
- The DB2 Administrator user must be less than or equal to 8 characters
- Create two groups DB2ADMINS and DB2USERS
- Create a user for example **db2admin** and ensure the user is the member of **Administrators** and **DB2ADMINS** groups

Follow the instructions below to complete the WebSphere Business Monitor V6.0.2 Basic installation.

1. From the directory where all the pre-requisites and the Monitor driver are extracted (Ex:-C:\CDImage-v602\), double click on the launchpad.bat to run the Launchpad program

| 🜐 WebSphere Business Mo | nitor Launchpad | _ 🗆 🗙 |
|---|---|-------|
| WebSphere Busines | ss Monitor Version 6.0.2 | TEM. |
| Welcome Technotes Install Tips Exit | Welcome to the Launchpad for IBM WebSphere Business Monitor Version 6.0.2 The WebSphere Business Monitor Launchpad prepares your computer for the installation of the WebSphere Business Monitor product. You can choose between Basic and Advanced installation, or add more components to an existing installation. The launchpad uses already installed prerequisites that meet the required version level. It also installs any missing prerequisites. The launchpad collects all necessary information first and then installation of the product and its prequisites proceed with a single click of a button. Click Install on the left navigation menu to proceed with the installation. | |
| © The IBM logo and WebSphern rights reserved 2005, 2006. | e are trademarks or registered trademarks of IBM Corporation in the US, other countries, or both. Al/ | |

- _____2. From the welcome screen, click on **Install** link
- _____3. Read the license agreement to accept the it

| 🕀 WebSphere Business Mo | onitor Launchpad | _ 🗆 × |
|---|---|-------|
| WebSphere Busine | Software License Agreement Agreement carefully before using the Program. By | IIN. |
| Welcome Technotes # | selecting "Accept" below or using the Program, you agree to accept the terms of this agreement. If you select "Decline", installation will not be completed and you will not be able to use the Program. | F() |
| Tips ⊯ Exit # | 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, - DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, OR USE THE PROGRAM; AND | A |
| © The IBM logo and WebSphe rights reserved 2005, 2006. | Read non-IBM terms Print Accept Decline re are trademarks or registered trademarks of IBM Corporation in the US, other countries, or both. A// | |

- _____4. Click the **Accept** button to continue
 - ____5. In the following screen, choose the **Installation Type** as **Basic**

Note: There are two types of installation that can be chosen from: **Basic** and **Advanced**. The Basic installation is a single machine topology type of installation whereas the advanced installation is a multi-machine topology type of installation.

| WebSphere Business WebSphere Business | Monitor Launchpad ness Monitor Version 6.0.2 | | | |
|--|--|---|--|---|
| Welcome Technotes Install Tips Exit | Installation Type Select the installation you want Basic C Allows you to inst. machine - ideal for demonstrations and demonstrations and demonstrations and some components on o small to large pro- | t to perform. all all monitor components or quick prototyping, proof- nd testing. tomize the installation of i ne or multiple tiers - can b oduction systems. | in a single of-concepts, the monitor e used for | A |
| @ The IBM logo and WebSp rights reserved 2005, 2006 | <back ohere are trademarks or registered trademark 3.</back | Next> (s of IBM Corporation in the US | install other countries, or both. All | |

- 6. Click Next
- ____7. On the following Monitor Server Target Directories screen, accept the defaults
 - WebSphere Process Server home : C:\IBM\WebSphere\ProcServer
 - Use DB2 Enterprise Server Edition for Process Server Databases : Selected (not available)
 - WebSphere Business Monitor home : C:\IBM\WebSphere\Monitor

Note: When selecting "**Use DB2 ESE for Process Server databases**" the Monitor Launchpad creates the databases on a database server local to the Process Server. WebSphere Process Server uses the database names MONWPS and MONCEI when installed using Launchpad. For the **Basic** installation type, DB2 is mandatory for the Process Server databases.

| VebSphere Busin | ess Monitor Version 6.0.2 | | | IBM |
|---------------------|---|---|--------------------|-----|
| /elcome 🖷 | Monitor Server | | Basic Installation | |
| nstall ins m | Target Directories | | 0 | |
| ips iii Exit iii | WebSphere Process Server home: | 🔝 Not installed | | |
| | C:\IBM\WebSphere\ProcServer | Browse | | |
| | WebSphere Business Monitor home | x) | | |
| | Note: The basic install uses a profile does not exist, it will be | profile named "wbmonitor". If created. | this | H |
| | | | | |

- ____ 8. Click Next
- 9. In the following screen, provide the following DB2 Information for Process Server Database :
 - ____a. To set the target directory for **DB2 Home** filed. Click the **Browse** button to set a different target directory or accept the default
 - DB2 Home: C:\IBM\DB2\SQLLIB (default)
 - ____b. Enter the DB2 User name, Password and Conform Password fields:
 - DB2 User name : db2admin
 - Password : xxxxxxx
 - Confirm Password : xxxxxxx
 - ____ c. The **DB2 server hostname** field is not available and defaults to localhost
 - DB2 server hostname : localhost (default)
 - ____ d. Enter the DB2 server port or accept the default
 - DB2 server port : 50000 (default)

| WebSphere Business M WebSphere. Busin | lonitor Launchpad ess Monitor Version (| 5.0.2 | | IEM. |
|--|---|-----------------------|-------------------|--|
| Welcome 🗰 Technotes 🖷 | Monitor Server | | Basic Ins | stallation |
| Install Tips | DB2 Information for Pro | ocess Server Database | | 0 |
| Exit # | DB2 Home: | 🔝 Not installed | | |
| | C: \IBM\DB2\SQLLIB | | Browse | |
| | DB2 User name: db2admin | Password: | Confirm Password: | |
| | DB2 server hostname: | DB2 server port: | | |
| | localhost | 50000 | | 11 |
| | | | | |
| | <back< td=""><td>Next></td><td>Install</td><td>and the second s</td></back<> | Next> | Install | and the second s |

10. Click Next

- 11. In the following screen, enter the Operating System specific, WebSphere Process Server User name and Password
 - DB2 User name : Administrator
 - Password : xxxxxxxxx

Note: The **WebSphere Process Server User** is an Operating System specific user and it is mandatory that the user ID already exist and that the user is part of the **Administrators** group. For example, "admin" can be used.



| WebSphere Busine | ss Monitor Version 6.0.2 | | | |
|--------------------------|---|---|------------------------------|--------|
| Welcome 👜 Technotes 🏨 | Monitor Server | | Basic Instal | fation |
| Install 🛛 👘 | User name and Password | | | 0 |
| xit 🖐 | WebSphere Process Server User I | name: | | |
| | Password: | 11 | | |
| | **** | | | |
| | Note: WebSphere Process Se user name in your local opera | rver User name must be an ting system's user registry. | existing | |
| | <back< td=""><td>Next></td><td>Install</td><td></td></back<> | Next> | Install | |
| | | rks of IBM Corporation in the LIS | other countries, or both. Al | |

- _____13. Verify the following Dashboard target directories screen :
 - WebSphere Application Server home : C:\IBM\WAS
 - WebSphere Portal home : C:\IBM\PortalServer
 - DB2 Alphablox home : C:\IBM\Alphablox
 - WebSphere Business Monitor home : C:\IBM\WebSphere\Monitor (not available)

Note: The **WebSphere Business Monitor home** directory was already set as the Monitor Server Target Directory and the same will be used for the Dashboard target directory. That is the reason why the field is not available and defaults to the preset value

| WebSphere Business Mo WebSphere Busines | nitor Launchpad ss Monitor Version 6.0.2 | | 00000 | |
|--|---|-----------------|--------------------|-----|
| Welcome 🗰 Technotes 🗰 | Dashboard | | Basic Installation | 1 |
| Install | Target Directories | | 0 | |
| TIPS III Exit III | WebSphere Application Server home: | 🔛 Not installed | | |
| | C:VBMW/VAS | _ | Browse | 000 |
| | WebSphere Portal home: | 😡 Not installed | Browse | |
| | DB2 Alphablox home: | Q Not installed | | |
| | C:\BM\Alphablox | | Browse | 740 |
| | WebSphere Business Monitor home: | 😡 Not installed | | |
| | C:\BMWVebSphereMonitor | - | Browse | |
| | <back< td=""><td>Next></td><td>Install</td><td></td></back<> | Next> | Install | |

- ____14. Accept the defaults and click Next
- 15. In the following screen, provide the WebSphere Application Server Admin ID, WebSphere Portal Admin ID and DB2 Alphablox Admin ID with their respective Password(s)
 - WebSphere Application Server Admin ID / Password : Administrator/xxxxxxxxxx
 - WebSphere Portal Admin ID / Password : wpsadmin/wpsadmin (accept default)
 - DB2 Alphablox Admin ID / Password
- : admin/password (accept default)

Note: The **WebSphere Application Server User** is an Operating System specific user and it is mandatory that the user be pre-existing and that it be part of the **Administrators** group. The user ID which is used for the WebSphere Process Server can be used here.



Note: The **WebSphere Portal Admin** and **DB2 Alphablox Admin** users and passwords default to **wpsadmin/wpsadmin** and **admin/password**. For this exercise, it is recommended that you not change them.

| WebSphere Busines | nitor Launchpad ss Monitor Version 6.0.2 | | | | IEN. |
|--------------------------|--|-----------|-----------|--------------------|------|
| Welcome ⊯ Technotes ⊯ | Dashboard | | | Basic Installation | 2 |
| Install | User name and Password (?) | | | 1 | |
| Exit 🌵 | WebSphere Application Server Admi | Password: | | | |
| | Administrator | | Password | | |
| | wpsadmin | | ****** | | |
| | DB2 Alphablox Admin ID: | | Password: | | -//H |
| | admin | | ***** | | |
| | <back< td=""><td>Next></td><td></td><td>Install</td><td></td></back<> | Next> | | Install | |

____ 16. Click Next

- ____ 17. In the following Database Setup screen, provide the DB2 User name and Password.
 - Monitor Database name : MONITOR (defaulted and not available)
 - Monitor Database name : **DATAMART** (defaulted and not available)
 - DB2 User name : db2admin (not available)
 - Password : **xxxxxxxx** (not available)

Note: The **DB2 User** used for Monitor Databases is same as the one used for Process Server Databases, so the DB2 user name and password are defaulted and not available.

Note: - For the **Basic** installation type, the Monitor databases can only be created on a local database server.

| WebSphere Business Mo | onitor Launchpad | | | |
|--|--|---|-------------------------------|------------------|
| WebSphere Busine | ss Monitor Version 6.0.2 | | | IIM |
| Welcome 🗰 Technotes 🗰 | Databases | | Basic Installatio | n 1 |
| Install Tips 🗰 | Database Setup | | 0 | |
| Exit # | Monitor database name: MONITOR Create DDL scripts only | Data Mart database name: DATAMART Create DDL scripts only | | |
| | DB2 User name: db2admin | Password: ***** | Confirm Password: | H |
| | ≺Back | Next> | Install | |
| The IBM logo and WebSphe hts reserved 2005, 2006. | re are trademarks or registered tradem | arks of IBM Corporation in the US, o | other countries, or both. All | |
| _ 18. Click Next _ 19. On the folk | owing Database Target D | Directories screen, acce | ept the defaults | |
| • DB2 H | ome | : C:\IBM\DB2\SQI | LIB (defaulted and | d not available) |
| Install | DB2 Enterprise Server Ec | lition : Selected (defaul | ted and not availab | le) |
| Install | DB2 Cube Views | : Selected (default | ed and not availabl | e) |
| • DB2 ba | ackup directory | : C:\IBM\WebSphe | ere\Monitor\dbbac | kup |

- DB2 backup directory : C:\IBM\WebSphere\Monitor\dbbackup
- DB2 tablespace directory : C:\IBM\WebSphere\Monitor\dbspace

Note: The **Install DB2 Enterprise Server Edition** and **DB2 Cube Views** options are selected by default and not available since they are mandatory.

•

| WebSphere <mark>Busin</mark> | ess Monitor Version 6.0.2 | |
|------------------------------|---|--------------------|
| Welcome 🖷 Technotes 🖷 | Databases | Basic Installation |
| Install | Target Directories | 0 |
| Tips ⊯ Exit ⊯ | DB2 Home: 🔛 😡 Not installed | |
| | C: VBM/DB2/SQLLIB | Browse |
| | 🔯 Install DB2 Enterprise Server Edition | |
| | 🕅 Install DB2 Cube Views | |
| | DB2 backup directory: | |
| | C:\IBMW/VebSphere\Monitor\dbbackup | Browse |
| | DB2 table space directory: | |
| | C:\BM\WebSphere\Monitor\dbspace | Browse |
| | | |
| | Deals Master | Install |

____ 20. Click Next

_____ 21. In the following Summary screen, review the installation summary and click Install

| 🜐 WebSphere Business Moni | itor Launchpad | | | X |
|---|--|---------------------------------------|---------------------------------|------|
| WebSphere Business | s Monitor Version 6.0.2 | | | IIM. |
| Welcome 🕪 | summary | | Basic instana | |
| Technotes 🕪 | The following will be installed | on this system: | | |
| Tips ⊯ Exit ⊯ | WebSphere Business | Monitor Server 6. | 0.2 (Node setup) | |
| | | | | |
| | WebSphere Business WebSphere Application Se WebSphere Portal v5.1.0.4 DB2 Alphablox v8.4 | s Monitor Dasnboar erver v6.0.2.17 | d 6.0.2 | |
| | Databases | | | |
| | IBM DB2 Enterprise Server IBM DB2 Cube Views 8.2.6 MONITOR (create local) DATAMART (create local) | Edition 8.2.6 | | |
| | <back< td=""><td>Next></td><td>Install</td><td></td></back<> | Next> | Install | |
| © The IBM logo and WebSphere rights reserved 2005, 2006. | are trademarks or registered tradema | rks of IBM Corporation in the | e US, other countries, or both. | All |

Note: Follow the Warning message as shown below:

| Warning | × |
|---------|---|
| ⚠ | CVMLP1033W: To avoid interruptions during install, disable any firewall products that are running on the machine. |
| | OK |

_____ 22. The installation progresses in the following **sequence** without an interruption as follows:



a. DB2 Enterprise Server Edition installation in progress. This should take about 5 minutes to complete.



b. DB2 Cube Views installation progress. This should take about 3 minutes to complete.

| 👍 In prog | ress 🗙 | I |
|-----------|---|---|
| ب | nstalling IBM DB2 Cube Views v8.2.6 Please wait. | |
| [| 9% | |

c. WebSphere Application Server installation progress. This should take about 12 minutes to complete.

| 📥 In pro | ogress 🔰 | < |
|----------|--|---|
| • | Installing WebSphere Application Server. Please wait. | |
| | 6% | |

d. A new **wp_profile** creation progresses for Portal Server (Dashboard installation). This should take about 5 minutes to complete.

| 📥 In pro | gress | × |
|----------|--|-----------------|
| • | Creating new wp_profile for Dash Please wait. | nboard install. |
| | 27% | |

e. Once the **wp_profile** creation is complete, the Launchpad stops the WebSphere Application server making way for Portal Server installation.



f. WebSphere Portal Server installation progress. This should take about 45 minutes to complete.



g. Once the Portal Server installation is complete, the Launchpad stops the WebSphere Application server making way for DB2 Alphablox installation.



h. DB2 Alphablox Installation progress. This should take about 4 minutes to complete.



i. Once the DB2 Alphablox installation is complete, the Launchpad starts the WebSphere Application server and the WebSphere Portal Server as follows:

| Starting WebSphere Server | × |
|---------------------------------|---|
| Please wait server1 | |
| | I |
| Starting WebSphere Server | x |
| Please wait WebSphere_Portal | |
| | |

j. Process Server Installation progress. This should take about 40 minutes to complete.



Note: Once the Process Server installation is complete, the installation wizard is launched automatically to install the Monitor components: the VpdExport and the Monitor databases MONITOR and DATAMART. The Monitor un-installer is also created at this time.

k. The installation progresses starting with the VpdExport component which holds the installation information of the monitor server components. This should take about 5 minutes to complete.

Note: VpdExport is an InstallShield tool where the Monitor Install and Uninstall is recorded and maintained as a database. VpdExport is installed when the first Monitor feature is installed and uninstalled when the last Monitor feature is uninstalled.

VpdExport is located at C:\Program Files\Common Files\InstallShield\Universal\Common\Gen2_vpddb

| IBM WebSphere Busin | ess Monitor Version 6.0.2 - InstallShield Wizard | _ 🗆 X |
|--|--|-------|
| WebSphere. Business Monitor Version 6.0.2 | Installing VPDExport. Please wait | |
| | Extracting 0% | |
| InstallShield | <u>C</u> ancel | |

I. MONITOR Database creation. This takes about 3 minutes to complete.

Note: Do not attempt to close the DB2 command widow during the database creation action. The window closes by itself on completion.

| 🕰 DB2 CLP | | | | _ 🗆 🗙 |
|------------------------------------|---------------|---------------|-------------|-------|
| db2start DB2 -s CREATE DATABASE | MONITOR using | codeset UTF-8 | territory l | |

m. DATAMART Database creation. This takes about 2 minutes to complete.

| CN DB2 CLP | _ 🗆 X |
|--|----------|
| db2start DB2 —s CREATE DATABASE DATAMART using codeset UTF-8 territory US | _ |
| | |
| | • |

n. The installer checks the status of the Monitor databases created as follows:

| Installation status |
|--|
| Checking installation status of Datamart database |
| |
| |
| Installation status |
| Installation status |
| Installation status Checking installation status of Monitor database |

o. When the Database status check is complete, the installer stops WebSphere Application Server, Portal Server and the Process Server to prepare for the Monitor Server and Dashboard Client installation and re-launches.

| Stopping WebSphere Server | × |
|---------------------------------|---|
| Please wait server1 | |
| | |
| Stopping WebSphere Server | x |
| Please wait WebSphere_Portal | |
| | |

Note: Once the Monitor Database status check is complete, the installation wizard is launched automatically again to install the remaining Monitor components: the Monitor Server, Dashboard.

p. The Monitor and Dashboard installation progresses. This should take about 30 minutes to complete.

| 🚺 IBM WebSphere Busir | ness Monitor Version 6.0.2 - InstallShield Wizard | _ 🗆 X |
|--|---|-------|
| WebSphere. Business Monitor Version 6.0.2 | Installing IBM WebSphere Business Monitor Version 6.0.2. Please wait | |
| InstallShield | <u> </u> | |

q. The Installer checks the status of the Dashboard and Monitor installation as follows:



23. Review the **Result** Summary and ensure all the software components listed are successfully installed.

| WebSphere Busin | ess Monitor Version 6.0.2 | | TBM |
|--------------------------|--|---------------------------------|--------------|
| Welcome # Fechnotes # | WebSphere Business Monitor Server 6.0.2 (Node setup) | ✓ Successful | X |
| Install | WebSphere Process Server v6.0.2 | V Successful | |
| Tips 🗰 Exit 🕪 | Dashboard | V Successful | |
| | WebSphere Application Server v6.0.2.17 | V Successful | |
| | WebSphere Portal v5.1.0.4 | V Successful | |
| | DB2 Alphablox v8.4 | V Successful | |
| | IBM DB2 Enterprise Server Edition 8.2.6 | V Successful | |
| | IBM DB2 Cube Views 8.2.6 | V Successful | |
| | Databases | | -// A |
| | MONITOR | V Successful | X |
| | DATAMART | V Successful | |
| | Reboot the machine before using IBM WebSphere Busin | ess Monitor. | |
| | ≺Back Next> | Finish | |
| he IBM logo and WebSph | ere are trademarks or registered trademarks of IBM Corporation in the US | , other countries, or both, A// | |

- ____ 24. Click Finish
- _____ 25. Click Yes



- ____ 26. Reboot the machine
- _____27. The WebSphere Business Monitor Server V6.0.2 of Installation type Basic is complete

What you did in this exercise

You obtained the Monitor 6.0.2 drivers and pre-requisites, extracted them to create an on-disk image making it easy for the Launchpad to run. You used the Launchpad program to install all the pre-requisite software, created the Monitor Databases and finally installed the Monitor Server and Dashboard Client.

Task 1: Pre-install Monitor prerequisites

This part of the lab helps you take advantage of the new incremental installation feature of the Launchpad program by leveraging the existing pre-requisite product installations for the Basic installation.

IMPORTANT: If you choose to pre-install the Monitor and Dashboard pre-requisites not using the Monitor Launchpad, the Dashboard pre-requisites, WebSphere Application Server V6.0.2.17 and the Portal Server V5.1.0.4, are installed first and the Monitor Server pre-requisite WebSphere Process Server V6.0.2 is installed second. This a workaround for a problem that is related to the WebSphere Application Server pre-requisite for Dashboard and the WebSphere Process Server pre-requisite for Monitor and the fact that their default ports happen to be the same. Obviously, if both the WebSphere Application Server and the WebSphere Process Server are being installed on the same machine, it is undesirable for their ports to overlap. Therefore, at least one of the products must make use of different port numbers from its defaults. Unfortunately, if the WebSphere Process Server is already installed, and then the WebSphere Application Server is installed next, the WebSphere Application Server installation does not adjust its port numbers. Fortunately, in the reverse situation, WebSphere Process Server will adjust its port numbers.

Therefore, the workaround is to make sure WebSphere Application Server is installed before the WebSphere Process Server Installation. To ensure the workaround is achieved, the Dashboard pre-requisites are installed prior to the Monitor Server.



Follow the sequence to install pre-requisites as shown in the diagram below:

Appendix 1: Uninstalling WebSphere Business Monitor and its prerequisites

From the Windows Control Panel's Add/Remove Programs utility, follow the uninstall sequence below:

- 1. Uninstall the WebSphere Business Monitor components: the MONITOR and DATAMART Databases, Monitor Server components and the Dashboard Server
- 2. Uninstall WebSphere Process Server V6.0.2
- _____ 3. Uninstall DB2 Alphablox
- 4. Uninstall WebSphere Portal Server 5.1.0.4
- _____ 5. Uninstall WebSphere Application Server
- _____6. Uninstall DB2 Cubes View V8.2.6
- _____7. Uninstall DB2 UDB Enterprise Server Edition 8.2.6
- 8. Visit the "<u>Appendix 2: Hints and troubleshooting</u>" section at the end of the document for more information

Appendix 2: Hints and troubleshooting

Hints:

1. To manually install the Portal Server V5.1.0.4, follow the instruction below:

The Monitor Launchpad installs the **lighter-weight version** of Portal V5.1.0.4, and to achieve the same by installing Portal Server out of the Monitor Launchpad;

Run the command: install.bat -W config.arguments=-DskipCM=true

| 📾 IBM WebSphere Portal for Multiplatforms 5.1.0.4 | |
|--|---|
| C:\Documents and Settings\Administrator>cd \ | |
| C:\>cd C:\CDImage-v602\Porta15104 | |
| C:\CDImage-v602\Portal5104>install.bat -W config.arguments=-DskipCM=true Licensed Materials - Property of IBM | - |

2. Portal user ID and Alphablox user ID

Details: - The Portal Server user ID and Alphablox user ID are not Operating System specific or do not require to be re-defined in the system

Solution: - Accept the default user ID for the Portal Server and Alphablox. Also accept the Launchpad defaulted passwords for Portal Server and Alphablox.

3. Portal and Alphablox default passwords

Details: - The Launchpad defaults to the pre-defined passwords to their respective users.

Solution: - The default Portal password is wpsadmin and the default Alphablox password is password

4. Change Alphablox default password

Details: - When Launchpad installs Alphablox, the default for Alphablox user ID is 'admin' and password is 'password'. You can modify the password for existing user ID

Solution: - Open the Alphablox Admin page: Ex: - <u>http://localhost:9081/AlphabloxAdmin</u>[®]. Login with default **user ID/password** and click on '**Administration**' tab and then '**Users**' tab. Select user ID '**admin**' then click '**Edi**t' button. Provide new password for 'admin' user. Click **Save**

5. Create new user ID for Alphablox

Details: - New Alphablox user ID can be created from Alphablox Admin page

Solution: - Open the Alphablox Admin page: Ex: - <u>http://localhost:9081/AlphabloxAdmin</u>[®]. Login with default **user ID/password** and click on '**Administration**' tab and then '**Users**' tab. Click '**Create**' button then provide new user ID and password. Click **Save**

6. Select 'Create DB manually' option

Details: - If user uses the Launchpad to install Databases and select the option 'Create DB manually' on the Database setup panel, the Launchpad will only generate scripts and DDL scripts.

Solution: - Run the DDL scripts manually

Troubleshooting:

1. Useful files for debugging installation problems

Details: - When debugging installation problems, gather as much information as possible

Solution: - If you have a problem installing any of the Monitor components, please include these files when you request assistance.

- All files in <MONOTOR_HOME>\install\logs
- The following files in the %TEMP% directory of the Administrator user

(C:\DOCUME~1\user ID\LOCALS~1\Temp/)

launchpad-monitor.log launchpad-Traces.log Mon_Install.rsp WbimInstall.log

- The Process Server log file: SystemOut.log
- 2. Monitor Databases install failed

Details: - If Launchpad displays the status of Databases install as 'Failed' on the final Result panel

Solution: - Open DB2 Control Center and drop all Monitor databases

3. The Install Shield's vpd properties sometimes gets corrupted

Details: - If a monitor installation fails in an unexplained manner, the Install Shield product registry can get corrupted and you may need to clean things up.

Solution: -

a. Find for the **Gen2** directory in C:\Program Files\Common Files\InstallShield\Universal\common\Gen2 and delete it

| 🗁 C:\Program Files\Common Files\InstallShield\Universal\common\Gen2 | | | | | | | |
|---|-------------------|-------------|-------------------|------------|--|--|--|
| <u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> | ools <u>H</u> elp | | | . | | | |
| 🔇 Back 🝷 🕥 🖌 🥬 Search 🌔 Folders 🛛 🕼 🌚 🗙 🍤 🛄 🗧 | | | | | | | |
| Address 🛅 C:\Program Files\Common Files\InstallShield\Universal\common\Gen2 | | | | | | | |
| Name 🔺 | Size | Туре | Date Modified | Attributes | | | |
| | | File Folder | 11/4/2006 3:06 PM | | | | |
| | | | | | | | |
| • | | | | • | | | |

- b. Remove the Monitor registry entry in HKEY_LOCAL_MACHINE → SOFTWARE → IBM
- c. Remove the directory that Monitor is currently installed in
- d. If the Monitor databases are already installed, you need to drop them
- 4. How to manually uninstall Monitor features

Details: - If the Monitor uninstaller fails, you can manually uninstall the Monitor features.

Solution: -

- e. On Windows, the path is C:\Program Files\Common Files\InstallShield\Universal\common\Gen2. On AIX, the path is /usr/lib/objrepos/InstallShield/Universal/common/Gen2
- f. Remove the Monitor registry entry in **HKEY_LOCAL_MACHINE** \rightarrow **SOFTWARE** \rightarrow **IBM**
- g. Remove the directory that Monitor is currently installed in
- h. Remove install.vlf. On Windows, the path is %WINDIR%. On AIX, the path is /usr/lib/objrepos
- 5. Debugging Monitor database creation problems

Details: - If the Monitor database creation fails, you will see this error message: An error occurred and product installation failed. Look at the log file C:\DOCUME~1\user ID\LOCALS~1\Temp/WbimInstall.log for details

Solution: - Follow these steps to determine where the problem occurred.

- In WbimInstall.log, look for this line: ProductException: (error code = 601; message="The execution of the bat file failed with a return code of 2")
- j. Go up 3 lines and you will see this line: "installing Bat File Test Condition PA (bat_test_xxx)".
- k. The text in parentheses tells you what script was running. Each script has log files associated with it.
- I. Here are the possible text values and the log files associated with them.

bat_test_repository - db2CreateMonDBOut.log, db2CreateMonDBErr.log bat_test_datamart - db2CreateDatamartOut.log, db2CreateDatamartErr.log bat_test_repos_catalog1 - catalogMonDBOut.log, catalogMonDBErr.log bat_test_datamart_catalog - catalogDatamartOut.log, catalogDatamartErr.log

- m. The log files will tell you why the database creation failed
- 6. Debugging Monitor JDBC Data Sources in WebSphere Process Server

Details: - The Monitor install finishes and the JDBC data sources return an error when tested in the Admin Console.

Solution: - It is possible that there may have been a DB2 node named either MONITOR or DATAMART in your local DB2 instance. If this is the case, you need to un-catalog the node and install again. To check for this problem, open a DB2 Command Window and type "db2 list node directory". If the results show a node with the name MONITOR or DATAMART, delete it with the command "db2 delete node MONITOR".

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