



IBM Software Group

IBM WebSphere® Business Monitor V6.0.2

Advanced installation in Network Deployment



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This presentation describes the WebSphere Business Monitor Version 6.0.2 installation using the advanced option, including clustering.

Agenda

- WebSphere Business Monitor
 - ▶ Overview
 - ▶ Installation with the advanced option

The agenda for this presentation is to provide an overview of WebSphere Business Monitor Version 6.0.2, and to cover installing the product.

Section

WebSphere Business Monitor - Network Deployment overview

This section will introduce you to the Monitor for Network Deployment.

Monitor cell manager overview

- Monitor supports clustering such that only a single member of the cluster will be actively processing events, but that if that cluster member goes down, another member of the cluster will automatically take over
- Due to event sequencing issues, Monitor does not support multiple members of a cluster actively processing events in parallel

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Clustering is now supported in that you can setup clusters of servers for failover support. If one server goes down, the a backup server in the cluster will take over. A single monitor model cannot run simultaneously on separate servers, but you can install a monitor model on many nodes in a cluster for failover reasons. Clustering of Monitoring Models in Monitor V6.0.2 will be for high availability reasons.

Only one cluster member is active at a time. For performance reasons, if you have two monitor models then you would want to install them into two different clusters so that both models could be active at the same time.

Monitor cell manager overview (cont.)

- How it works:
 - ▶ Monitor registers with the Network Deployment high-availability (HA) manager using a policy that only one member of the cluster can be active.
 - ▶ Whichever cluster member starts first will be one actively processing messages – any other cluster members started while one is already active will start but remain in an inactive state.
 - ▶ If the HA manager loses contact with the active cluster member (that is, it stops responding to periodic polling), then it will automatically pick another started member of the cluster and tell it to activate.
 - ▶ During this failover from one cluster member to another, any transaction in progress will fail and the new cluster member will re-try it. No data will be lost – it will automatically switch to the standby members without any human intervention required

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Monitor registers with the HA Manager with a policy that only one member of a cluster can be active. So whichever member starts first will be the one that is active, any other cluster members will be inactive. If the HA Manager polls the active member of the cluster and it does not respond, then the HA Manager will automatically start another member in the cluster. And it will retry the transactions on the failing member so that no data is lost. All this is handled without any human intervention.

Monitor cell manager overview (cont.)

- The MONITOR database must be remote, and all Monitor nodes in the cell must have cataloged that remote database
 - ▶ all members of the cell must see and update the same database
- Monitor supports federation of a Monitor node into a cell. A cell will support an arbitrary number of Monitor nodes (machines), with each node supporting an arbitrary number of servers (JVMs).

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All the members of a cell use the same remote database.

You can install Monitor into a stand-alone node, then federate that into the cell. Then you use the deployment manager console to configure the servers and clusters. So at that time you can also create multiple JVMs on a single Monitor machine, with each JVM participating in different clusters.

Monitor cell manager overview (cont.)

- When installing a Monitoring Model .ear into a cell, you will have the option to install the .ear to any server on any Monitor-enabled node.
- To get a Monitoring Model running in a cell:
 - ▶ Install Monitor onto the cell's deployment manager
 - Cell manager install assumes WebSphere Process Server cell manager profile already exists
 - ▶ Install Monitor onto a stand-alone machine.
 - ▶ Run addNode on the node to federate that machine into the cell.
 - ▶ From an administrative console (or wsadmin) pointed at the deployment manager, install the Monitoring Model ear.
 - ▶ During Monitoring Model .ear installation, choose the target node for that Monitoring Model
 - ▶ Note that installation of Monitor into an already federated profile is not supported.

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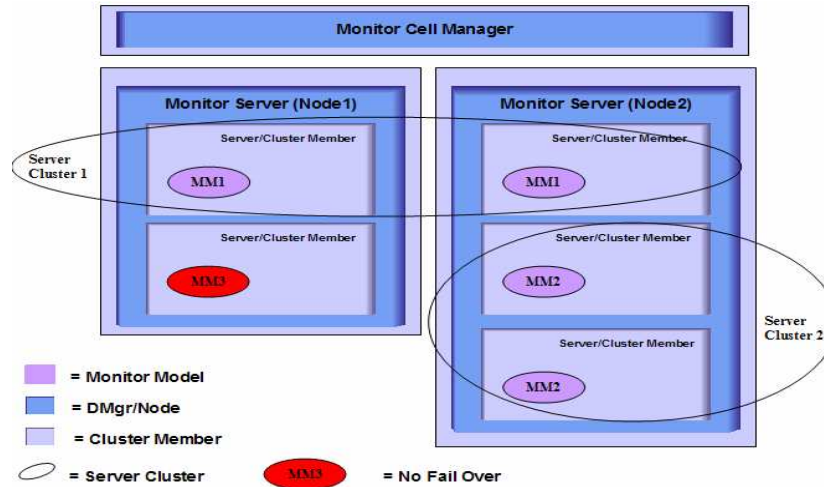
Installation: Advanced option

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To install a Monitor model into a cell, you first install Monitor onto an existing Deployment Manager profile in WebSphere Process Server. Then you install Monitor into a stand-alone machine and federate that into the cell using the addNode command. Using the administrative console of the deployment manager, you install the monitor model into one or more nodes in a cluster.

Monitor cell manager overview (cont.)

- Monitoring Models deployed into clusters or stand-alone server or managed nodes



This chart shows a clustered arrangement for a Monitor installation using two stand-alone nodes which have been federated into the cell. Monitor model 1 has been deployed to both nodes so there is failover support for this model if one of the nodes goes down. Monitor model 2 has been deployed to two JVMs on a single node. There is failover if one of the JVMs on node 2 goes down, but no failover for monitor model 2 if Node 2 goes down. Monitor model 3 has been deployed to Node 1 only, so there is no failover for this model.

Section

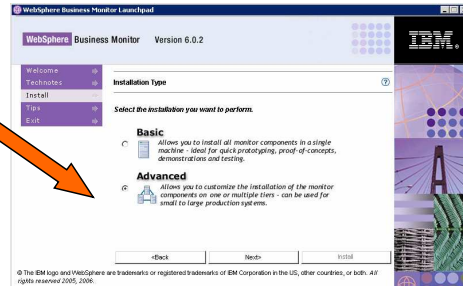
Monitor installation - Network Deployment manager



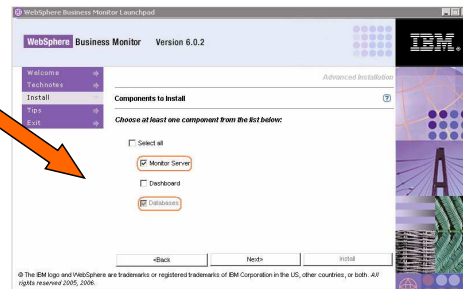
This section will show you the installation procedure for a Network Deployment Manager.

Launchpad – Cell manager

- Select Installation type as Advanced



- Select only **Monitor Server** and **Databases**

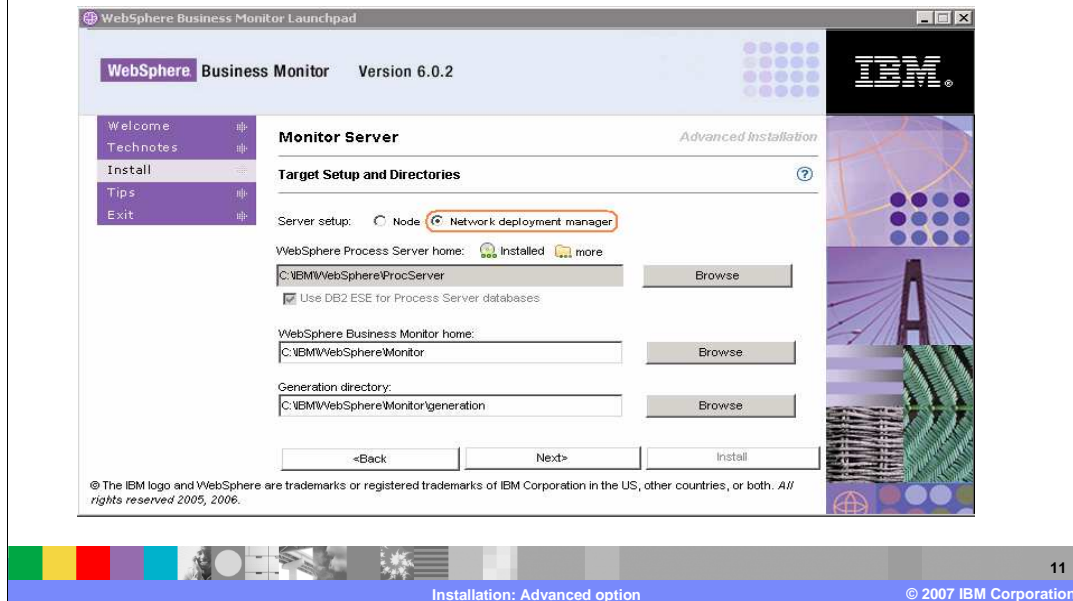


When prompted, select advanced installation type option and click Next.

For the components to install, ensure that you select Monitor Server and Databases will be selected automatically.

Launchpad – Cell manager

- Select Network deployment manager



On this panel, you set the target directories for the Monitor Server. For a deployment manager, select the Server setup type Network deployment manager.

Launchpad – Cell manager

- Select the Deployment Manager Profile

The screenshot shows the 'WebSphere Business Monitor Launchpad' window. The title bar reads 'WebSphere Business Monitor Launchpad'. The main window has a header with 'WebSphere Business Monitor Version 6.0.2' and the IBM logo. On the left is a navigation menu with 'Welcome', 'Readme', 'Install', 'Help', and 'Exit'. The main content area is titled 'Monitor Server' and 'WebSphere Process Server Information'. It contains several dropdown menus: 'Profile name' (dmgr01), 'Cell name' (glt42hstCell01), 'Node name' (glt42hstCellManager01), and 'Server name' (dmgr). There is also a text field for 'Generation directory' containing 'C:\IBM\WebSphere\Monitor\generation'. At the bottom are buttons for '<Back', 'Next>', and 'Install'. A footer contains copyright information: '© The IBM logo and WebSphere are trademarks or registered trademarks of IBM Corporation in the US, other countries, or both. All rights reserved 2005, 2006.'

The deployment manager profile should already be installed and configured on the Process Server. On this panel you enter the profile, cell, node and server information for the deployment manager profile.

Launchpad – Cell manager

- **MONITOR DB Setup**
 - ▶ Select **MONITOR** tab
 - ▶ Select for **Configure**
 - ▶ Choose between the JDBC™ driver type : Type 2 or 4
 - ▶ Remote DB2® user and password
 - ▶ Select **Remote** option (to catalog)

- **DATAMART DB Setup**
 - ▶ Select **DATAMART** tab
 - ▶ Select for **Configure**
 - ▶ Choose between the JDBC driver type : Type 2 or 4
 - ▶ Remote DB2 user and password
 - ▶ Select **Remote** option (to catalog)

The image displays two screenshots of the WebSphere Business Monitor Launchpad configuration window, version 6.0.2. The top screenshot shows the 'MONITOR' database configuration. The 'JDBC driver' is set to 'Type 2'. The 'Database name' is 'MONITOR'. The 'Remote' option is selected. The 'Remote user name' is 'jbc2admin' and the 'Remote password' is '*****'. The 'Local DB alias' is 'jbc2mon' and the 'Remote DB name' is 'jbc2mon'. The 'DB2 server hostname' is 'jbc2mon.ibm.com' and the 'DB2 server remote port' is '5000'. The bottom screenshot shows the 'DATAMART' database configuration. The 'JDBC driver' is set to 'Type 4'. The 'Database name' is 'DATAMART'. The 'Remote' option is selected. The 'Remote user name' is 'jbc2admin' and the 'Remote password' is '*****'. The 'Local DB alias' is 'jbc2mon' and the 'Remote DB name' is 'DATAMART'. The 'DB2 server hostname' is 'jbc2mon.ibm.com' and the 'DB2 server remote port' is '5000'. Both screenshots have orange arrows pointing to the 'Remote' radio button.

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On this panel, there are two tabs, one for the MONITOR database and one for the DATAMART database. You will need to check the box for install, and choose the type of JDBC driver. You will also enter your DB2 user and password and select the Remote database option to catalogue the databases, specifying the remote DB2 server name and port.

Summary

- WebSphere Business Monitor in a cluster
- Installation into Network Deployment

In summary, this presentation has covered the specifics of installing IBM WebSphere Monitor Version 6.0.2 into a cluster.

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