WebSphere® Business Monitor V6.1

Basic and toolkit installation

This presentation introduces the basic installation and toolkit installation in WebSphere Business Monitor Version 6.1.

Goals

- Explain what is new in Monitor V6.1 Installation

- More detail for advanced installation scenarios are covered in another presentation

This presentation explains the new features in the WebSphere Business Monitor version 6.1 installation, particularly in regards to the Basic and Toolkit installations. The Advanced installation is covered in another presentation.

Agenda

- Overview (basic and toolkit)
  - ▶ What is new in monitor V6.1 installation
  - ▶ Monitor prerequisites and components
  - ▶ Supported platforms
  - ▶ Installation scenarios

- Basic and toolkit installation
  - ▶ Installing monitor server: basic
  - ▶ Installing monitor toolkit

- Known limitations

- Hints and troubleshooting

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Basic and toolkit installation   © 2008 IBM Corporation

You will see an overview of installation, which includes the new features, the prerequisites and the major monitor components plus hardware and software requirements and some typical installation scenarios for a Basic install and a Toolkit install. You will see how to install Monitor basic, and how to install the Monitor toolkit. Then you will review the known limitations, some hints and how to troubleshoot the installation.

Section

Overview
Basic installation

Basic and toolkit installation

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This section is an overview of the basic type of Monitor installation.

What is new in version 6.1 basic installation

- New installation program consistent with other IBM products
  - Common Launchpad
    - Serves as a single point of reference
    - Provides initial help
    - Uses common install engine to invoke ISMP
  - InstallShield MultiPlatform (ISMP)
    - Used to install prerequisites and monitor components
  - Resembles the WebSphere application server installer

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The installation program provides a "Common Launchpad" similar to that of the other IBM products such as WebSphere Application Server, WebSphere Process Server and WebSphere Enterprise Service Bus. The installation is made possible by using a Common Launchpad that uses Common Install Engine (CIE) to launch the InstallShield Multiplatform (ISMP). The Common Launchpad provides initial help and acts as a launching pad for the InstallShield program. The InstallShield program is used to install the mandatory prerequisites, optional prerequisites if any and the monitor components. The graphical user interface of the InstallShield Multiplatform wizard used for the WebSphere Business Monitor V6.1 resembles the WebSphere Application Server installer, so this should provide a more familiar installation procedure.

What is new in Monitor 6.1 basic installation?

- WebSphere Application Server V6.1 is the only mandatory prerequisite

- Retains the option to install monitor server on WebSphere process server V6.1

- Does not support incremental installation

- Supports multiple monitor installations on a single machine

- Supports Derby, DB2® and Oracle database environment

- Simplified database architecture
  ▸ DATAMART database removed

- DB2 cube views is not required

- Introduces light weight web-based dashboards

WebSphere Application Server V6.1 is the only mandatory prerequisite for WebSphere Business Monitor V6.1 installation. When it comes to the basic installation type, the InstallShield program does not support incremental installation, using existing product installations. So it lays down a new instance of WebSphere Application Server if one already exists. The Version 6.1 installation retains the option to install the Monitor Server on WebSphere Process Server V6.1 profile. The InstallShield program also supports multiple monitor server instances on a single machine.

New in version 6.1, the installation wizard supports the embedded Derby database which was previously called Cloudscape®, and it also supports DB2 and Oracle database environments. The DATAMART database has been removed eliminating the replication overhead between the databases. DB2 Cube Views is not required but can be used for performance reasons; however the DB2 Cube Views is not referenced by the installer.

WebSphere Business Monitor V6.1 introduces a new light weight dashboard which runs on the same application server on which the monitor server is running.

What is new in Monitor 6.1 basic installation

- Standard profile management
  - ▶ Installer uses profile management tool (PMT)
    - Support standard V6.1 profile creation and augmentation
  - ▶ Supported templates
    - Stand alone environment only

- Supports WebSphere update installer for maintenance

- Provides "first steps" utility
  - ▶ Very similar to WebSphere application server
    - Supports IVT, PMT, migration tool and information center on the Web

The WebSphere Business Monitor V6.1 installation program uses the Profile Management Tool (PMT) feature in WebSphere Application Server. The InstallShield program installs the WebSphere Application Server V6.1 and silently uses the Customized Profile Management Tool to create and augment the WebSphere Business Monitor profile. The basic installation supports only a "Stand-alone" environment.

Monitor installation now supports WebSphere Update Installer for maintenance purposes.

On a successful installation, the WebSphere Business Monitor V6.1 installation result panel offers to launch First Steps which is very similar to the first steps in WebSphere Application Server. In first steps, you can invoke the Installation Verification Test (IVT), Profile Management Tool (PMT), migration tool and the information center.

Monitor prerequisites and components: Basic

- Monitor prerequisites
  - WebSphere Application Server V6.1.0.13 (mandatory)
    - Does not support WebSphere process server V6.1
  - WebSphere portal server V6.0.1.1 (optional)
  - Alphablox V9.5 (optional)
    - New instance created per Java virtual machine (JVM)
  - Ability to choose between derby, DB2 or oracle database environments
- Major monitor components
  - Monitor server
  - MONITOR database
  - Web-based dashboards including Alphablox views
  - Portlet-based dashboards including Alphablox views (optional)

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WebSphere Application Server is the only mandatory prerequisite for WebSphere Business Monitor V6.1 installation; however WebSphere Process Server and Enterprise Service Bus profiles are also supported. Optionally WebSphere Portal Server V6.0.1 is used for Portal Dashboard and Alphablox V9.5 uses the Alphablox views for the Web and Portal Dashboard. Alphablox V9.5 architecture mandates that a new instance is created per JVM.

Monitor V6.1 supports the embedded Derby database formerly known as Cloudscape, and it also supports DB2 and Oracle database environments. The user is given the option to generate database scripts depending on the database environment. If DB2 or Oracle is selected as database environment and the option to create a database is selected, the selected database environment must be running and available for the installation program

In Version 6.1 the only mandatory monitor components are the Monitor Server and the MONITOR database. In the 'Basic' installation type, the installation wizard installs the Web Dashboard and Alphablox views. Optionally you can install the Portal Dashboard and Alphablox views.

Target environments

- Server
  - Windows® 2003 Standard or Enterprise, SP 1
  - Windows XP Professional SP2 (Monitor toolkit only)
  - Windows Vista (Monitor toolkit only)
  - AIX® 5L 5.2, Maintenance level 7 (5200-07)
  - AIX 5L™ 5.3, Maintenance level 5 (5300-05)
  - HP-UX Itanium® 11i
  - Red Hat Enterprise Linux® (RHEL) 5.0 AS, ES, or WS
  - SUSE Linux Enterprise Server v10
- Database
  - Derby (Cloudscape 10.1) – AIX, HP-UX, Linux, Windows
  - DB2 Enterprise Server Edition 8.2 fp7 or 9.1 - AIX, HP-UX, Linux, Windows
  - DB2 for zOS 8.2 fp7 or 9.1
  - Oracle 10g Standard/Enterprise Release 2 (10.2.0.2) - AIX, HP-UX, Linux, Windows, Sun Solaris

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These are the target environments for WebSphere Business Monitor version 6.1. The Monitor server runs on the listed Windows, AIX, UNIX and Linux platforms. The supported databases include Derby, DB2 for distributed platforms, zOS and Oracle.
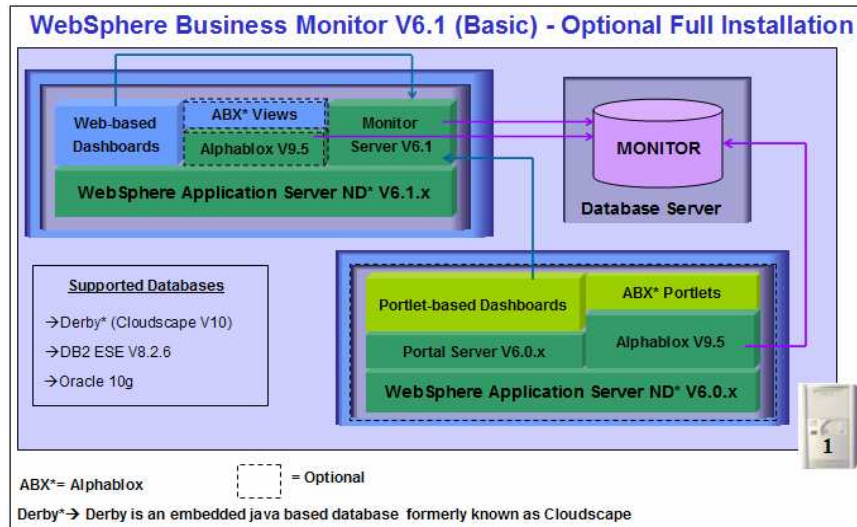
Monitor V6.1 hardware requirements

- Monitor development toolkit
  - ▶ 2 GHz minimum, 2 GB RAM minimum, 15 GB disk space
- AIX servers
  - ▶ RS/6000 at 450 MHz minimum or Power5
  - ▶ 2 GB RAM minimum, 15 GB disk space
- Windows servers
  - ▶ 2 GHz minimum, 2 GB RAM minimum, 15 GB disk space
- Basic installation (one machine for monitor server, dashboard server, DB server)
  - ▶ 2 GHz minimum, 4 GB RAM minimum, 15 GB disk space

Basic and toolkit installation

These are the operating system and hardware requirements for WebSphere Business Monitor V6.1. Disk space, processor speed and memory are suggested. Your needs will vary depending on the complexity and number of models that you have deployed.
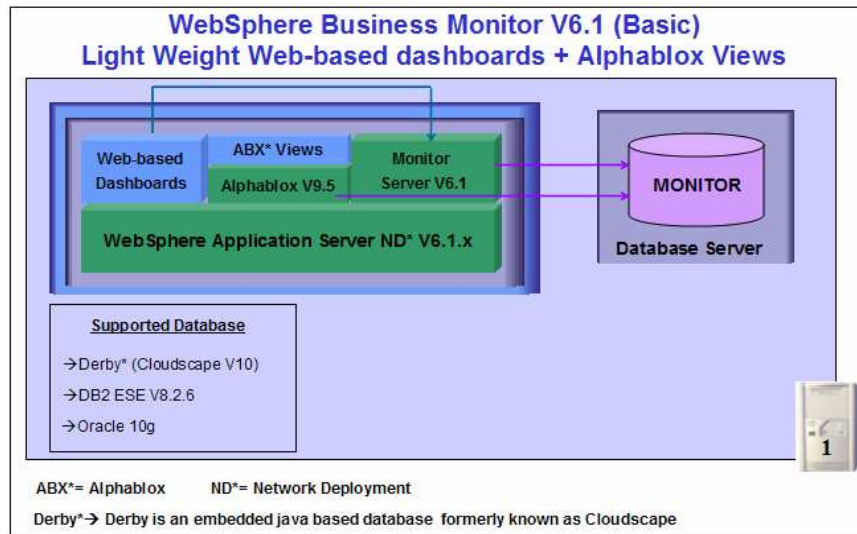
Basic installation scenario

- Optional full installation

WebSphere Business Monitor V6.1 (Basic) - Optional Full Installation

Web-based Dashboards | ABX* Views | Monitor Server V6.1
Alphablox V9.5
WebSphere Application Server ND* V6.1.x

MONITOR
Database Server

Supported Databases
→Derby* (Cloudscape V10)
→DB2 ESE V8.2.6
→Oracle 10g

Portlet-based Dashboards | ABX* Portlets
Portal Server V6.0.x | Alphablox V9.5
WebSphere Application Server ND* V6.0.x

ABX*= Alphablox   [ ] = Optional
Derby*→ Derby is an embedded java based database formerly known as Cloudscape

This is a graphical depiction of the Basic Installation which requires a single machine. The Monitor V6.1 installation wizard installs monitor server, its components and Web-based Dashboards and Alphablox views. Optionally the installation wizard installs the Portlet-based Dashboards and Alphablox views. The Alphablox views for Web-based dashboards are not installed when portlet-based dashboards option is selected for installation. The installation wizard also gives you a choice to select the type of database to create for the MONITOR database. The installation wizard supports Derby, DB2 and Oracle.

Basic installation scenario

- Monitor Server with Web-based dashboards including Alphablox views

WebSphere Business Monitor V6.1 (Basic)
Light Weight Web-based dashboards + Alphablox Views

Web-based Dashboards	ABX* Views Alphablox V9.5	Monitor Server V6.1

WebSphere Application Server ND* V6.1.x

MONITOR

Database Server

Supported Database
→ Derby* (Cloudscape V10)
→ DB2 ESE V8.2.6
→ Oracle 10g

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ABX*= Alphablox   ND*= Network Deployment

Derby*→ Derby is an embedded java based database formerly known as Cloudscape

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This is a graphical depiction of the Basic Installation of Monitor Server with a light weight Web-based Dashboard including Alphablox views. Portal server is not installed in this scenario.

Section

Overview
Monitor toolkit installation

Basic and toolkit installation

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This section is an overview of WebSphere Business Monitor Development Toolkit V6.1 Installation.

What is new in version 6.1 toolkit installation?

- WebSphere Business Monitor Development Toolkit V6.1
  - ▸ Common Launchpad
    - Launches IBM Installation Manager
    - Provides readme file, installation guide and migration guide
  - ▸ IBM Installation Manager V1.1
    - Handles product install, modify, uninstall and updates
  - ▸ Consists of two major components
    - Monitor Development Environment (mandatory)
      - Includes Monitor Model Editor (MME), MME docs, and Monitor Application Descriptor
      - Includes Code Generation component
    - Monitor Test Environment (optional)
      - Fully functional Monitor Server including Action Manager, Web-based dashboards including Alphablox views
      - Uses embedded Derby database

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The Monitor Toolkit provides a separate launchpad based on the Common Launchpad program which invokes the IBM Installation Manager to handle the product installation, un-installation and updates. The Common Launchpad provides initial help in the form of a readme file and installation guide.

The Monitor Toolkit consists of two major components, the Monitor development environment and the Monitor test environment. The Monitor Development Environment includes Monitor Model Editor (MME), documentation and code generation components that allow you to create the monitor model for use with WebSphere Business Monitor V6.1. The Monitor Test Environment is a fully functional Monitor Server including Action Manager, Web Dashboard and Alphablox Dashboard. It uses the Derby database that allows users to test the developed monitor model within the development environment before deploying it to the production environment.

What is new in Monitor 6.1 toolkit installation?

- **WebSphere Business Monitor Development Toolkit V6.1**
  - ▸ Installs on top of WebSphere Integration Developer V6.1 and Rational® Application Developer V7.0
  - ▸ Installation options
    - Monitor development environment (required)
    - Monitor test environment (optional)
      - WebSphere Application Server profile V6.1 (only selectable if required WebSphere Application Server V6.1 test server is installed)
      - WebSphere Process Server profile V6.1 (only selectable if required WebSphere Process Server V6.1 test server is installed)
      - WebSphere Enterprise Service Bus profile V6.1 (only selectable if required WebSphere Enterprise Service Bus V6.1 test server is installed)

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Monitor Toolkit can be installed on top of Rational Application Developer V7.0 and WebSphere Integration Developer V6.1.

The Monitor Development Environment is mandatory, whereas the Monitor Test Environment is optional. The Monitor Test Environment can be optionally installed provided that one of the three server environments is installed and their version levels support the Monitor Server installation. The monitor test server can be WebSphere Application Server V6.1, WebSphere Process Server V6.1 or WebSphere Enterprise Service Bus.

Supported platforms

- ## Supported operating systems
  - Windows server 2003 standard SP1 (32 bit)
  - Windows server 2003 enterprise SP1 (32 bit)
  - Windows XP SP2 (32 bit)
  - Windows vista (32 bit)

- ## Software prerequisites
  - IBM installation manager V1.1
  - Rational application developer V7.0.0.5 or WebSphere integrated developer V6.1
  - Optionally, WebSphere application server V6.1.0.13, WebSphere process server V6.1 or enterprise service bus V6.1

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Basic and toolkit installation   © 2008 IBM Corporation

Monitor Toolkit supports the listed Windows 32 bit operating systems.

IBM Installation Manager V1.1 must be installed.

You can install the Toolkit on Rational Application Developer or WebSphere Integrated Developer. Optionally, you can install one of the three supported test environments.

Monitor V6.1 hardware requirements

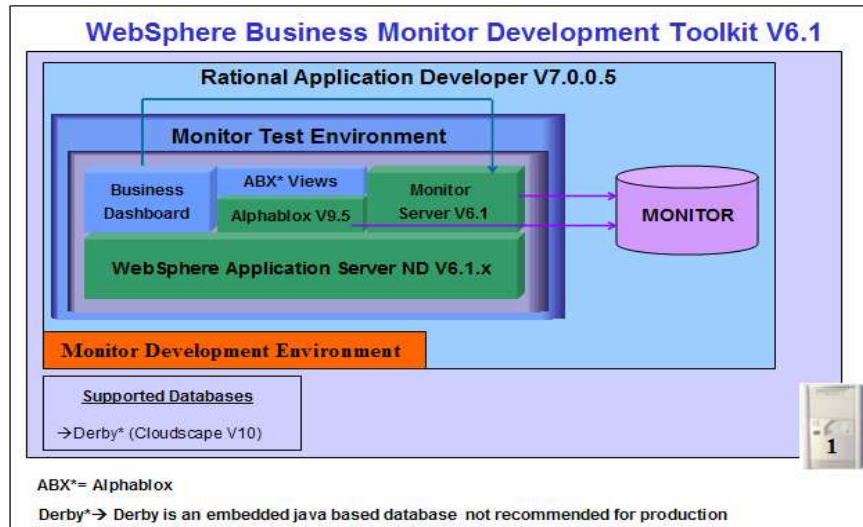- Monitor development toolkit
  - 2 GHz minimum, 2 GB RAM minimum, 15 GB disk space

- Basic installation (one machine for monitor server, dashboard server, DB server)
  - 2 GHz minimum, 4 GB RAM minimum, 15 GB disk space

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These are the hardware requirements for Monitor V6.1. Disk space, processor speed and memory are suggested. Your needs will vary depending on the complexity and number of models that you have deployed.

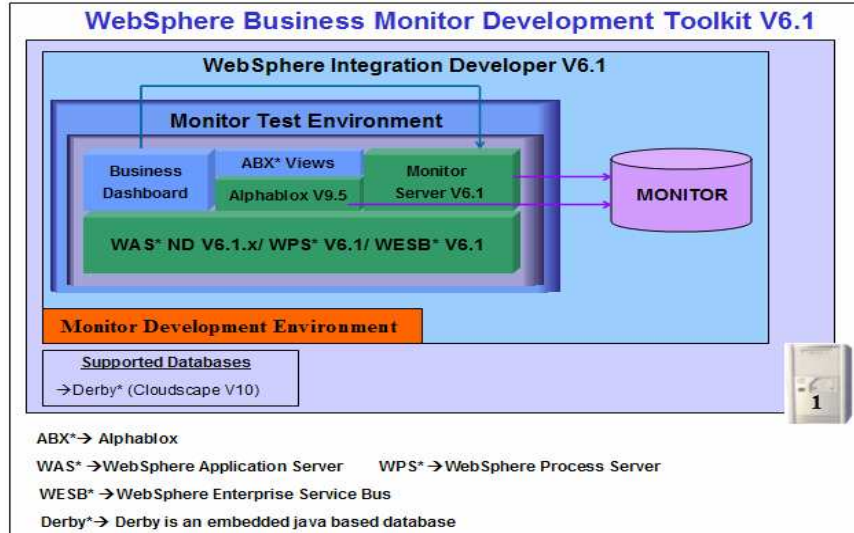# Toolkit installation scenario

- Monitor toolkit installation with Rational Application Developer

Here is a graphical depiction of the Monitor Development Toolkit installed on Rational Application Developer. You see the Monitor database is installed on the embedded Derby database. You have full use of the Web dashboard and Alphablox views in this configuration.

Here is a graphical depiction of the Monitor Development Toolkit installed on WebSphere Integration Developer V6.1. You see the Monitor database is installed on the embedded Derby database. You have full use of the Web dashboard and Alphablox views in this configuration.
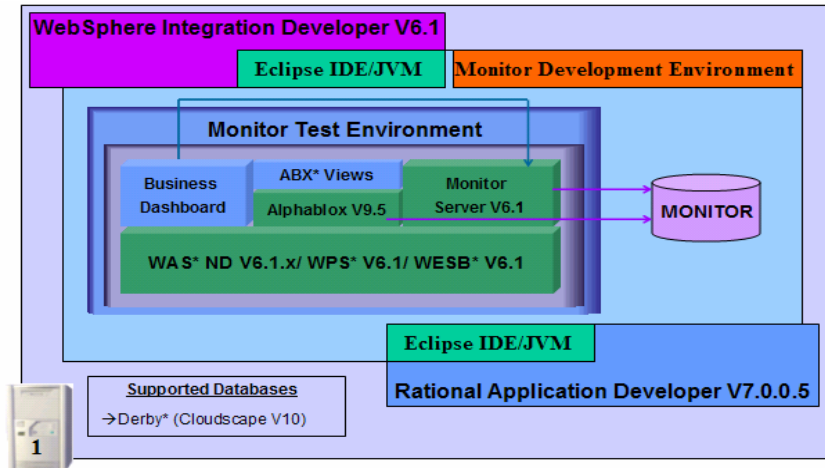
Toolkit installation scenario

- Monitor Toolkit with WebSphere Integration Developer and Rational Application Developer on the same machine

WebSphere Integration Developer V6.1

Eclipse IDE/JVM   Monitor Development Environment

Monitor Test Environment

Business Dashboard   ABX* Views   Monitor Server V6.1

Alphablox V9.5

WAS* ND V6.1.x/ WPS* V6.1/ WESB* V6.1

MONITOR

Eclipse IDE/JVM

Rational Application Developer V7.0.0.5

Supported Databases
→Derby* (Cloudscape V10)

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Basic and toolkit installation   © 2008 IBM Corporation

Here is a graphical depiction of the Monitor Toolkit installed on Rational Application Developer and WebSphere Integration Developer on one eclipse platform using shell sharing. In this case you have access to the monitor model editor functions in either development environment, and you can deploy and test your applications to the shared Monitor test server.

Section

Other information

This section will describe hints and troubleshooting information.

Hints and notes

- Un-installation
  - ▶ Basic
    - Add or Remove Programs > Monitor
    - Gives options to remove the prerequisites
  - ▶ Monitor Toolkit
    - Use the IBM Installation Manager
    - To remove Monitor test environment only, select the modify packages option
    - To remove the Monitor development environment and test environment, use the Uninstall packages option

Basic and toolkit installation

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To uninstall the Basic installation, use the Add or Remove Programs facility. This will uninstall Monitor components and gives you the option to remove the WebSphere Application Server profile and the WebSphere Portal Server profile if installed.

Monitor Toolkit un-installation is made possible by the IBM Installation Manager. To remove the Monitor Test environment only, select the Modify Packages option from the Installation Manager. To remove both the Monitor Development Environment and test environment, use the Uninstall Packages option from the Installation Manager.

Troubleshooting

- **Installation problems**
  - ▶ %TEMP% directory of the administrator user
  - ▶ Monitor basic
    - <serverPath>\logs\wbm
  - ▶ Monitor toolkit
    - <WID-path>\runtimes\bi_v61\logs\wbm

- **Deployment or runtime problems**
  - ▶ Monitor basic
    - <serverPath>\profiles\wbmon01\logs
  - ▶ Monitor toolkit
    - <WID-path>\pf\wbmonsrv_wps\logs\server1
    - <RAD-path>\rutimes\base_v61\profiles\wbmonsrv\logs\server1

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If you have installation problems, there are logs stored in the monitor home folder and some logs are also stored in the temp folder.

If you have deployment or runtime issues, check the Monitor Server logs and the Dashboard Server logs. These are listed on this chart.

Summary

- Covered what's new in WebSphere Business Monitor V6.1 installation including Basic and Toolkit installations

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In summary, you have reviewed the new capabilities in Monitor Launchpad, including the Basic and Toolkit scenarios.

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