

IBM DB2 Alphablox



# Installation Guide

*Version 8.2*



IBM DB2 Alphablox



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*Version 8.2*

**Note!**

Before using this information and the product it supports, read the information in "Notices" on page 39.

**First Edition (November 2004)**

This edition applies to version 8, release 2, of IBM DB2 Alphablox for Linux, UNIX and Windows (product number 5724-L14) and to all subsequent releases and modifications until otherwise indicated in new editions.

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## Preface

This Preface describes intended audience, organization, and the conventions used in the *Installation Guide*. It also contains information about the IBM® DB2® Alphablox for Linux™, UNIX®, and Windows® documentation set and information about how to contact IBM for technical problems or comments on the documentation.

- “About This Book” on page v
- “Access to Online Documentation” on page vi
- “Contacting IBM” on page vi

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## About This Book

This book includes information about supported configurations for DB2 Alphablox as well as specific instructions for installing IBM DB2 Alphablox on Linux, UNIX, and Windows systems.

### Intended Audience

This book is intended for administrators installing DB2 Alphablox and for anyone needing the requirements for DB2 Alphablox. Administrators who install DB2 Alphablox should have the following skills and knowledge:

- Basic Windows administration knowledge (for installations on Windows systems)
- Basic Linux or UNIX knowledge (for installations on Linux or UNIX-based systems)
- If you are installing with either a WebSphere® or WebLogic application server, you should have a working knowledge of the server.
- An understanding of the network environment in which DB2 Alphablox will run

### Organization

This *Installation Guide* is organized into the following chapters:

- Chapter 1, “System Requirements,” on page 1  
This chapter lists the client and server system requirements, and lists the supported multidimensional database, relational database, and application server platforms.
- Chapter 2, “Pre-Installation,” on page 7  
This chapter provides detailed instructions for tasks you must complete before installing DB2 Alphablox.
- Chapter 3, “Installing DB2 Alphablox,” on page 13  
This chapter provides detailed installation instructions for all platforms and configurations.
- Chapter 4, “Post-Installation Tasks,” on page 27  
This chapter provides detailed steps you must perform after running the DB2 Alphablox installer.

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## Related Documents

The DB2 Alphablox documentation set includes books and online help. The books are all available in HTML, PDF, and printed format. Context sensitive help is available for all parts of the DB2 Alphablox home page as well as within DB2 Alphablox applications. The DB2 Alphablox documentation set includes the following books:

Title	Description
<i>Administrator's Guide</i>	Contains information about setting up and managing DB2 Alphablox and about DB2 Alphablox in a J2EE environment.
<i>Developer's Guide</i>	Provides guidance on designing, developing, and deploying analytical applications using the DHTML client. If you are new to DB2 Alphablox or are developing new applications, it is recommended that you start with this book.
<i>Developer's Reference</i>	A complete API reference for developing applications using the DHTML client; contains information on each Blox, including its JSP syntax, properties, methods, and objects.
<i>Relational Reporting Developer's Guide</i>	Contains information about setting up ReportBlox to build a report from relational data.
<i>DB2 Alphablox Cube Server Administrator's Guide</i>	Contains information about setting up Alphablox Cubes. Alphablox Cubes allow you to present a multidimensional view of data stored in a relational data warehouse or data mart database.
<i>Installation Guide</i>	Contains information on system requirements, installing and configuring DB2 Alphablox, installing sample data, and migrating application from previous versions.

Javadoc documentation is available for the server-side API, the ReportBlox API, and the FastForward API, and can be found in the following directory:

```
<db2alphablox_dir>/system/documentation/javadoc
```

where <db2alphablox\_dir> is the directory in which DB2 Alphablox is installed.

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## Access to Online Documentation

The DB2 Alphablox documentation is available online in HTML and PDF formats. To access the Online Documentation, select the **Online Documentation** link on the **Help** menu or from any help page on the DB2 Alphablox home page. The entry page to Online Documentation opens in a separate browser window and provides links to both the HTML and PDF versions of the books. It also provides links to Javadoc for server-side API, Relational Reporting API, and Fast Forward API.

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## Contacting IBM

If you have a technical problem, please review and carry out the actions suggested by the product documentation before contacting DB2 Alphablox Customer Support. This guide suggests information that you can gather to help DB2 Alphablox Customer Support to serve you better.

For information or to order any products, contact an IBM representative at a local branch office or contact any authorized IBM software remarketer. If you live in the U.S.A., you can call one of the following numbers:



- 1-800-IBMSERV for customer support
- 1-888-426-4343 to learn about available service options

## Product Information

If you live in the U.S.A., then you can call one of the following numbers:

- 1-800-IBM-CALL (1-800-426-2255) or 1-800-3IBM-OS2 (1-800-342-6672) to order products or get general information.
- 1-800-879-2755 to order publications.

<http://www.ibm.com/software/data/db2/alphablox/>

Provides links to information about DB2 Alphablox.

<http://www.ibm.com/software/data/db2/udb/>

The DB2 Universal Database™ Web pages provide current information about news, product descriptions, education schedules, and more.

<http://www.elink.ibm.com/>

Click Publications to open the International Publications ordering Web site that provides information about how to order books.

<http://www.ibm.com/education/certify/>

The Professional Certification Program from the IBM Web site provides certification test information for a variety of IBM products.

Note: In some countries, IBM-authorized dealers should contact their dealer support structure instead of the IBM Support Center.

## Comments on the Documentation

Your feedback helps IBM to provide quality information. Please send any comments that you have about this book or other DB2 Alphablox documentation. You can use any of the following methods to provide comments:

- Send your comments using the online readers' comment form at [www.ibm.com/software/data/rcf](http://www.ibm.com/software/data/rcf).
- Send your comments by electronic mail (e-mail) to [comments@us.ibm.com](mailto:comments@us.ibm.com). Be sure to include the name of the product, the version number of the product, and the name and part number of the book (if applicable). If you are commenting on specific text, please include the location of the text (for example, a title, a table number, or a page number).



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## Chapter 1. System Requirements

DB2 Alphablox allows you to rapidly develop applications which analyze and apply enterprise information, enabling the delivery of easy-to-use analytic applications to line-of-business managers via the web. These applications help businesses to measure, manage, and improve performance, creating a competitive advantage.

DB2 Alphablox provides a robust architecture specifically designed for rapid development, deployment, and use of analytic applications.

DB2 Alphablox includes support for both relational and multidimensional data sources.

This chapter describes the supported configurations for running DB2 Alphablox applications.

- “Introduction” on page 1
- “Language Support” on page 1
- “Supported Client Configurations” on page 2
- “Supported Databases” on page 2
- “Supported Server Configurations” on page 3

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### Introduction

DB2 Alphablox offers a powerful server-side analytic applications solution that places the majority of the requirements on the server-side, including application servers, web servers, data sources, and server platforms. By placing the burden on the server-side, requirements for end users are kept to a minimum.

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### Language Support

DB2 Alphablox provides support for creating localized applications for the following languages:

- English
- French
- German
- Japanese
- Spanish
- Brazilian Portuguese
- Korean
- Simplified Chinese
- Traditional Chinese

For a list of supported code pages in which DB2 Alphablox runs on the various platforms, see “System Requirements: Windows” on page 4, “System Requirements: Sun Solaris” on page 4, and “System Requirements: IBM AIX” on page 5.

The user interface and user help for Blox applications (that is, the interface and online help that an end user who is using an application developed on the DB2 Alphablox platform can access) is available in the supported languages listed above. The DB2 Alphablox Admin Pages, used for administering DB2 Alphablox, and the associated online help, are currently available only in English. Contact your local IBM office for information on the documentation that is available in a particular language.

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## Supported Client Configurations

This section provides information on the supported client configurations for DB2 Alphablox. This section describes the following configurations:

- “DHTML Client”
- “Adobe Acrobat Reader”

### DHTML Client

The following table lists the supported browser configurations for the DHTML client:

Component	Requirement	Recommendation
System	Pentium-based CPU - 600 MHz	Pentium-based CPU - 1 GHz or greater
Operating System	Windows XP Professional; Windows 2000 Professional; Windows NT <sup>®</sup> 4.0 SP6	Windows XP Professional; Windows 2000 Professional
Memory	256 MB	512 MB
Disk Space Used*	0 MB	0 MB
Browsers	Microsoft <sup>®</sup> Internet Explorer 5.5 or later; 6.0 SP1	Microsoft Internet Explorer 6.0 SP1
Microsoft Office (Export to Excel)	Office 2003, Office XP, Office 2000	Office 2003, Office XP; Office 2000

\* This does not include disk space used for virtual memory, caching, or applications.

### Adobe Acrobat Reader

For convert to PDF functionality, the following is required for each client machine to properly display Adobe Acrobat PDF files generated by DB2 Alphablox:

Software	Version
Adobe Acrobat Reader	6.0; 5.1

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## Supported Databases

This section lists the multidimensional and relational databases supported with DB2 Alphablox.

### Multidimensional Databases

The following table lists the multidimensional databases DB2 Alphablox supports:

Type	Version
IBM DB2 Cube Views	8.2, 8.1

Type	Version
IBM DB2 OLAP Server™	8.2, 8.1 FixPak 4, 7.1 FixPak 11
IBM DB2 OLAP Server Deployment Services	8.2, 8.1 FixPak 4
IBM DB2 OLAP Server - Hybrid Analysis	8.2, 8.1 FixPak 4
IBM DB2 OLAP Server Integration Services	8.2, 8.1 FixPak 4
Hyperion Essbase	7.1, 7.0.1, 6.5.4
Hyperion Essbase - Hybrid Analysis	Essbase 7.1, 7.0.1, 6.5.4 on Windows, AIX®, and Solaris
Hyperion Essbase Deployment Services	7.1, 7.0.1, 6.5.4
Hyperion Essbase Integration Services	7.1, 7.0.1, 6.5.4 To support EIS native drillthrough, Essbase Analytic Services (6.5.4 or later), Essbase Integration Services (6.5.4 or later), and Essbase Deployment Services (6.5.4 or later for Windows).
Microsoft Analysis Services	SQL Server 2000 Analysis Services SP3

## Relational Databases

The following table lists the supported relational databases to use with DB2 Alphablox:

Type	Version	Drivers
Oracle	10g, 9i, 8i (8.2 minimum)	Oracle JDBC Thin Driver 10.1.0.2.0
Microsoft SQL Server	SQL Server 2000 SP3	SQL Server 2000 Driver for JDBC Service Pack 2
IBM DB2 Universal Database (UDB)	8.2, 8.1 FixPak 2, 7.2	IBM Type 4 DB2 driver*, IBM Type 3 DB2 driver*
IBM DB2 Information Integrator	8.2, 8.1 FixPak 2	IBM Type 4 DB2 driver*, IBM Type 3 DB2 driver*
Sybase Adaptive Server	12.5, 12.0	Sybase JConnect for JDBC 5.5 (Build 25165) EBF11248

\* The Type 3 driver supports DB2 versions 7.2 and 8.1. The Type 4 driver is only available in DB2 8.1 or later. Use of the Type 4 driver is recommended for DB2 8.1, since the Type 3 driver is deprecated. The driver FixPak version must exactly match the version on the database you are connecting to.

## Supported Server Configurations

This section lists the requirements for the server machines in which DB2 Alphablox runs. The following sections are included:

- “System Requirements: Windows” on page 4
- “System Requirements: Sun Solaris” on page 4
- “System Requirements: IBM AIX” on page 5
- “Application Servers” on page 5

## System Requirements: Windows

The following table lists the system requirements for installing DB2 Alphablox on Microsoft Windows systems:

Component	Requirement	Recommendation
System	Pentium-based CPU - 600 MHz or greater	Pentium-based CPU - 1 GHz Dual
Operating Systems	Windows Server 2003 SP1, Windows 2000 Server SP2	Windows Server 2003 SP1, Windows 2000 Server SP2
Memory - RAM	512 MB	1 GB
Disk Space Used*	400 <sup>®</sup> MB for Alphablox directory, plus 200 MB for temp directory during installation	400 MB for Alphablox directory, plus 200 MB for temp directory during installation
Web Server (Optional)**	SunOne (iPlanet) 4.1, 6.0; Microsoft IIS <sup>+</sup> 5.0, 6.0; Apache HTTP Server 1.3.27 or greater	SunOne (iPlanet) 4.1, 6.0; Microsoft IIS 5.0, 6.0; Apache HTTP Server 1.3.27 or greater
Application Server	See "Application Servers" on page 5.	
J2SE Software Development Kit (SDK)	J2SE SDK 1.4.x (or the application server J2SE SDK)	J2SE SDK 1.4.2_05 (or the application server J2SE SDK)

\* Does not include disk space used for virtual memory, caching, or applications.

\*\* DB2 Alphablox can also use Apache Tomcat as the web server. If another web server and DB2 Alphablox are used together, install both on the same machine. When using iPlanet or IIS as the web server, only a single instance of DB2 Alphablox is supported. For information about using DB2 Alphablox and a standalone web server on different machines, contact DB2 Alphablox Customer Support.

+ Use of multiple virtual web servers with IIS is not supported.

## System Requirements: Sun Solaris

The following table lists the system requirements for installing DB2 Alphablox on a Sun Solaris system:

Component	Requirement	Recommendation
System*	Sun UltraSPARC Workstation	Sun 4-way UltraEnterprise Server
Operating System	Solaris 9, 8, or 7**	Solaris 9, 8, or 7**
Memory - RAM	512 MB	1 GB
Disk Space Used	400 MB for Alphablox directory, plus 250 MB for temp directory during installation	400 MB for Alphablox directory, plus 250 MB for temp directory during installation
Web Server (Optional)***	<ul style="list-style-type: none"> <li>SunOne/iPlanet 6.0; 4.1</li> <li>Apache HTTP Server 1.3.27</li> </ul>	SunOne (iPlanet) 4.1, 6.0; Apache HTTP Server 1.3.27
Application Server	See "Application Servers" on page 5.	
Java Runtime Environment	J2SE SDK 1.4.2_05 (or the application server SDK)	J2SE SDK 1.4.2_05 (or the application server SDK)

Component	Requirement	Recommendation
Graphics Card	Solaris server must have a graphics card installed and X Server color depth settings must be 8 bit or 16 bit.	

\* DB2 Alphablox must be started from an X-server window.

\*\* Install the Sun recommended patches for Solaris 7 and Solaris 8. For download, see <http://sunsolve.sun.com/>.

\*\*\* DB2 Alphablox can also be used with Apache Tomcat acting as a web server. If another web server and DB2 Alphablox are used together, install both on the same machine. For information about using DB2 Alphablox and a standalone web server on different machines, contact DB2 Alphablox Customer Support.

## System Requirements: IBM AIX

The following table lists the system requirements for installing DB2 Alphablox on an IBM AIX system:

Component	Requirement	Recommendation
System*	Power3	4-way Power4
Operating System	AIX 5L™	AIX 5L
Memory - RAM	512 MB	1 GB
Disk Space Used	500 MB for Alphablox directory, plus 450 MB for temp directory during installation	500 MB for Alphablox directory, plus 450 MB for temp directory during installation
Web Server (Optional)**	Apache HTTP Server 1.3.27	Apache HTTP Server 1.3.27
Application Server	See "Application Servers" on page 5.	
Java Runtime Environment	J2SE SDK 1.4.1.1-20030930 (or the application server SDK)	J2SE SDK 1.4.1.1-20030930 (or the application server SDK)
Graphics Card	AIX server must have graphics card installed and X Server color depth settings of 8 bit or greater.	
X11 Libraries	The X11 libraries must be installed on the AIX system for DB2 Alphablox to start up correctly.	

\* DB2 Alphablox must be started from an X Server window.

\*\* DB2 Alphablox can also be used with Apache Tomcat acting as a web server. If another web server and DB2 Alphablox are used together, install both on the same machine. For information about using DB2 Alphablox and a standalone web server on different machines, contact DB2 Alphablox Customer Support.

## Application Servers

The following table lists the supported J2EE application servers for DB2 Alphablox. Because DB2 Alphablox runs as part of an application server, note that DB2 Alphablox and the application server must reside on the same machine.

Application Server	Version	Comments
Apache Tomcat	3.2.4	Apache Tomcat 3.2.4 is not installed automatically as the application server; you must install it before proceeding with the DB2 Alphablox installation if you are using this option. The supported Apache Tomcat 3.2.4 version is available at the following URL: <a href="http://archive.apache.org/dist/jakarta/tomcat-3/archive/v3.2.4/">http://archive.apache.org/dist/jakarta/tomcat-3/archive/v3.2.4/</a> .
BEA WebLogic	8.1.2	
IBM WebSphere	5.1	Includes support for the Express edition. Note that the default port numbers are different for the two versions - 9080 for the Enterprise version and 7080 for the Express version.

**Note:** Apache Tomcat 3.2.4 supports the JSP 1.1 and Servlet 2.2 specifications. IBM WebSphere 5.1 and BEA WebLogic 8.1 support the JSP 1.2 and Servlet 2.3 specifications.



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## Chapter 2. Pre-Installation

This chapter provides an overview of the installation process and describes the steps you need to perform before running the DB2 Alphablox installer.

- “Installation Overview” on page 7
- “Installation Task Checklist” on page 8
- “Pre-Installation Tasks” on page 8
  - “For All Configurations” on page 8
  - “Using WebSphere Clustered Environments” on page 8
  - “Using the BEA WebLogic Application Server” on page 10
  - “Using WebLogic Clustered Environments” on page 10
  - “Using the SunOne (iPlanet) Web Server” on page 10
  - “Using the IIS Web Server” on page 10
  - “Using the Apache Web Server” on page 11

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### Installation Overview

The DB2 Alphablox installation process installs and configures DB2 Alphablox to run on your system with your selected application server.

The DB2 Alphablox installer includes a GUI-based wizard that will guide you through the installation process. On Linux and UNIX machines, a console-based installer is also available.

DB2 Alphablox must be installed using one of the supported application servers. For a list of supported application servers, see “Application Servers” on page 5.

The installer guides you through the process of installing with an application server. Your application server must be installed and configured appropriately before starting the DB2 Alphablox installer.

### Console Installation for Linux and UNIX

The DB2 Alphablox installer includes a GUI-based wizard that can be used on most supported Linux and UNIX machines. If you need to install DB2 Alphablox from a console window on a machine on which the X Windows libraries are not available, the console installer can be used. The console-based installation can also be used to perform a console-based installation on a Linux or UNIX machine by using a telnet session to the Linux or UNIX machine from a Windows machine.

To use the console installer on Linux and UNIX platforms, follow the procedure described in “Starting the Installer” on page 13 and choose option 1 when the installer prompts to start the console installation.

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## Installation Task Checklist

The following table lists the major tasks required for DB2 Alphablox installation with a link to where to find information about each task.

Task	Cross Reference
1 Ensure you have the proper system requirements.	Chapter 1, "System Requirements," on page 1
2 Identify and understand the installation process and the application server configuration to which you are installing.	"Installation Overview" on page 7
3 Perform the pre-installation tasks, including any specific to your application server.	"Pre-Installation Tasks" on page 8
4 Install DB2 Alphablox, making sure to follow any application server-specific tasks.	Chapter 3, "Installing DB2 Alphablox," on page 13
5 Perform general post-installation tasks and any application server-specific tasks.	Chapter 4, "Post-Installation Tasks," on page 27

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## Pre-Installation Tasks

Before installing DB2 Alphablox, you should perform the following tasks.

### For All Configurations

Perform the following tasks before running the DB2 Alphablox installer:

1. Make sure your server machine has the required configuration specifications. For details, see "Supported Server Configurations" on page 3.
2. If you are upgrading an existing instance of DB2 Alphablox, shut down the server before upgrading.
3. If you will be using a relational database for your DB2 Alphablox repository, make sure you have a database set up and have all the database-specific configuration information to connect to that database.
4. Copy any JDBC drivers you may need (see "Relational Databases" on page 3) into a directory containing only JDBC drivers on your installation machine. During installation, you can enable the supported JDBC drivers in that directory.
5. Ensure you have the required administrative rights for your system:
  - For Windows systems, make sure you have Administrator privileges on the Windows 2000 or Windows Server 2003 machine used for the installation.
  - For Linux and UNIX systems, make sure you have complete access (read, write, execute) to the filesystem to which you are installing.

### Using WebSphere Clustered Environments

Note the following if you will be installing DB2 Alphablox in a WebSphere clustered environment:

- If IBM WebSphere and Network Deployment Manager are on the same machine, different ports must be defined. This also applies if you intend to add WebSphere as a Node that will be managed by the Network Deployment Manager.
- If you are using WebSphere cluster in Windows where there is a Windows Domain, make sure that the user has the following rights:
  - Act as part of the operating system

- Log on as a service
- Is a Windows Network administrator (set by your domain administrator)
- If you are using a WebSphere cluster in Linux or UNIX, make sure that you have a user with root privileges.

To use WebSphere Application Server in a clustered mode, perform the following steps:

1. Install WebSphere on machine 1.
2. Install WebSphere on machine 2.
3. Install WebSphere Network Deployment Manager on machine 3 (or machine 1 or 2, in this case make sure that port numbers are different).
4. Start the WebSphere Network Deployment Manager using the startManager.bat (Windows) or startManager.sh (Linux or UNIX) batch file located in the following directory:  
`<websphere_dir>/DeploymentManager/bin/`
5. Go to machine 1 and add WebSphere in the node to the Network Deployment Manager:  
`<websphere_dir>/AppServer/bin/addNode <DM_HOST>  
 <SOAP_CONNECTOR__PORT>`  
 The default port is 8884.
6. Repeat step 5 for machine 2.
7. Add aliases for the WebSphere HTTP ports in machines 1 and 2 (default is 9080) to the virtual host default host by following these steps:
  - a. Go to WebSphere Administrative console.
  - b. Select Environment > Virtual Hosts.
  - c. Click on default\_host.
  - d. Under Additional Properties, Select Host Aliases, and add a new host alias with the Host Name and the Port set to the WebSphere HTTP port.
8. You can now create a cluster by choosing clusters option and add the WebSphere servers.

**Note:** The addNode command automatically starts the node agent but will not start the server, so you need to start the server using the following start server command (addNode.bat for Windows; addNode.sh for Linux or UNIX), located in the following directory:

`<websphere_dir>/AppServer/bin/`

Or, you can use the Alphablox Admin Pages.

**Note:** When you stop the Network Deployment Manager and all of its nodes and start again, you need to manually start the node. To do this, run the startNode.bat (Windows) or startNode.sh (Linux or UNIX) command from every Node machine. The command file is located in the following directory:

`<websphere_dir>/AppServer/bin/`

This command automatically starts the node agent but will not start the server, so you need to start the server by using the startServer.bat (Windows) or startServer.sh (Linux or UNIX) command, located in the following directory:

`<websphere_dir>/AppServer/bin/`

See “Installing DB2 Alphablox in IBM WebSphere Clustered Environments” on page 20 for more information about the configuration and installation of DB2 Alphablox in a WebSphere clustered environment.

## Using the BEA WebLogic Application Server

If you are running DB2 Alphablox within the BEA WebLogic application server, you must perform the following tasks before running the Alphablox installer:

1. Install the WebLogic application server. Make sure it is a supported version of WebLogic as described in “Application Servers” on page 5. For details on installing WebLogic, see the BEA WebLogic documentation available online at BEA Product Documentation (<http://edocs.bea.com>).
2. Use the WebLogic configuration wizard to create a domain.
3. Start the WebLogic server.
4. Open the WebLogic console.
5. Create at least one user on WebLogic. For example, to create a user that is equivalent to the default administrative user in the Apache Tomcat configuration of DB2 Alphablox, create a user with the name `admin` and a password of `password`.
  - a. Create a group called `AlphabloxAdministrator` under the Security of the proper realm.
  - b. Create another group called `AlphabloxUser` the Security of the proper realm.
  - c. Configure a role called `AlphabloxAdministrator` and add the condition that Caller is part of the group `AlphabloxAdministrator`, and `AlphabloxUser`.
  - d. Configure a role called `AlphabloxUser` and add the condition that Caller is part of the group `AlphabloxUser`.
  - e. Create a user named `admin`, adding this user to the `AlphabloxAdministrator` and `AlphabloxUser` groups.

For details on creating and modifying groups in WebLogic, see the BEA WebLogic documentation available online at BEA Product Documentation (<http://edocs.bea.com>)

## Using WebLogic Clustered Environments

See “Using DB2 Alphablox in WebLogic Clustered Environments” on page 21 for details about pre-installation configuration and installing Alphablox into a WebLogic clustered environment.

## Using the SunOne (iPlanet) Web Server

If you are installing an Apache Tomcat configuration using the SunOne (iPlanet) web server, perform the following tasks:

1. Make sure the web server is installed and configured on your machine.
2. Make sure you have administrative access to the web server. This ensures you have read, write, delete, and create privileges while working on the web server.
3. Before starting the DB2 Alphablox installation program, you must shut down the web server.

## Using the IIS Web Server

If you are installing an Apache Tomcat configuration using the IIS web server, perform the following tasks:

1. Make sure the web server is installed and configured on your machine.

- Important:** For a successful installation or reinstallation, IIS must have a Scripts directory. Do not delete the Scripts directory from your IIS server.
2. If using IIS, decide whether to use the web server security or DB2 Alphablox security. For details on the tasks necessary for setting up your security with IIS, see the Security and Authentication section of the *Administrator's Guide*.
  3. Before starting the DB2 Alphablox installation, you must shut down the web server.

## Using the Apache Web Server

If you are installing an Apache Tomcat configuration and will be using the Apache web server, perform the following tasks:

1. Make sure the web server is installed and configured on your machine.

**Important:** For a successful installation or reinstallation, IIS must have a Scripts directory. Do not delete the Scripts directory from your IIS server.

2. Make sure you have administrative access to the web server. This ensures you have read, write, delete, and create privileges while working on the web server.
3. Make sure the proxy module (proxy\_module) is built and configured. To configure the proxy module, uncomment the following misspelled line in the http.conf file (Windows):

```
LoadModule proxy_module modules/ApacheModuleProxy.dll
```

or for Linux and UNIX platforms:

```
LoadModule proxy_module modules/ApacheModuleProxy.so
```

For information about configuring the Apache web server, see the Apache online documentation at <http://www.apache.org/docs/>.

4. Before starting the DB2 Alphablox installation, you must shut down the web server.



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## Chapter 3. Installing DB2 Alphablox

This chapter describes the procedure for installing DB2 Alphablox on Linux, UNIX, and Windows systems.

- “Starting the Installer” on page 13
- “Responding to Installer Prompts” on page 14
- “Using DB2 Alphablox in WebSphere Clustered Environments” on page 20
- “Using DB2 Alphablox in WebLogic Clustered Environments” on page 21
- “Using DB2 Alphablox with WebLogic Managed Servers” on page 23
- “Using DB2 Alphablox with WebLogic Vertical Clusters” on page 24

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### Starting the Installer

If you have checked the system requirements (see Chapter 1, “System Requirements,” on page 1) and performed any required tasks described in Chapter 2, “Pre-Installation,” on page 7, you are ready to start installing DB2 Alphablox. Follow the steps described below for your operating system.

#### Windows

Perform the following to start the DB2 Alphablox installer on Windows platforms:

1. Insert the CD-ROM into the drive. The DB2 Alphablox installer should launch automatically, and after a brief period, the first screen appears.

**Note:** If you will be using Microsoft Analysis Services with DB2 Alphablox, you need to install the minimum required Microsoft Data Access Components (MDAC) or Microsoft PivotTable Services versions before proceeding with your installation.

2. Continue the rest of the installation procedure on Windows platforms at “Responding to Installer Prompts” on page 14.

#### Linux and UNIX

Perform the following to start the DB2 Alphablox installer on Linux and UNIX platforms:

1. If you are installing from a CD drive, mount the CD drive for the installation.
2. If you have downloaded the installer using FTP, navigate to the directory in which you copied the downloaded file and enter the following commands to uncompress and extract the file:

```
gunzip aas_500_Solaris.tar.gz
```

```
tar -xvf aas_500_Solaris.tar
```

The first command uncompresses the file and the second command expands the archive to the current directory. The `gunzip` and the `tar` command must be in your `PATH` environment variable for these commands to work.

3. Navigate to the top level of the install directory (the directory in which the CD-ROM is mounted to or the directory in which you expanded the file). For example:

```
cd /cdrom
```

4. Run the `install.sh` script to start the installation by entering the following command:  
`./install.sh`
5. Choose whether you want to run the default graphic installer or if you want to run the console installer (for details, see “Console Installation for Linux and UNIX” on page 7).
6. The installer unpacks the installation and then the first screen appears. This process might take several minutes as it has to unpack a large file. For the rest of the installation procedure, see “Responding to Installer Prompts” on page 14.

---

## Responding to Installer Prompts

After starting the installer as described in “Starting the Installer” on page 13, continue with the installation by performing the following steps.

The installation of DB2 Alphablox can be tailored to your specific situation by choosing one of the predefined installation options, or by selecting the custom option to select the specific components you require. Below is a table listing the installation options available in the DB2 Alphablox installer:

<b>Installation Set</b>	<b>Description</b>
<b>Compact</b>	Minimal installation of DB2 Alphablox. Includes tools, utilities, and help (end user/admin).
<b>Typical (default)</b>	Compact, plus applications (FastForward, Examples, and Query Builder). Includes documentation for installation, administration, and development (Javadoc, DHTML Client, and Relational Reporting).
<b>Custom</b>	Choose this option to customize the features to be installed.  <p><b>Important:</b> Use this option cautiously: For example, if you decide after a Typical Install to add a few selected components using the Custom installation set option, the installer will may remove files except for the newly selected ones.</p>

**Note:** The following steps are based on use of the default graphical installer. If you are using the optional console installer for Linux or UNIX, the prompts are command-line prompts and differ slightly from the graphical installer, but it provides the same functionality.

## Begin the Installation: All Configurations

Perform the following steps to begin the DB2 Alphablox installation process for all configurations:

1. After you start the installer, the initial **DB2 Alphablox Installation** screen appears. Click the **Next** button.
2. The **License Agreement** screen appears. To continue the installation, you must accept the terms of the License Agreement displayed in the scrollable window. Select the radio button for “I accept the terms of the License Agreement,” then click the **Next** button.



3. On the **Choose Instance Name and Location** screen, accept the default for the instance name (AlphabloxAnalytics), or specify a new one. Also, accept the default Destination Directory or specify a different location for your DB2 Alphablox installation. Click **Next**.
4. The next **Select Installation Set** screen allows you to choose a predefined installation set mentioned at the beginning of this section, or you can select a custom installation set. The default installation set selected is Typical. Click **Next**.

**If You are Performing a New Installation:**

1. Select your application server on the **Choose Application Server** screen, then click **Next**.
2. The **Choose J2SE SDK Location** screen appears. Choose the location of the J2SE SDK 1.4 directory to be used with your DB2 Alphablox installation, then click **Next**.

**Note:** See “Supported Server Configurations” on page 3 for details and recommendations on the J2SE SDK.

Depending on the application server selected, the remaining installation can vary slightly. Continue the installation as described in the section corresponding to your configuration:

- “IBM WebSphere” on page 15
- “BEA WebLogic” on page 16
- “Using Apache Tomcat” on page 16

**If You are Upgrading:**

The DB2 Alphablox installer automatically goes into upgrade mode if you have selected a directory containing a previous installation of DB2 Alphablox. If you are performing an upgrade, the **Confirm Upgrade** screen appears, allowing you to confirm your selections and then select the Step-By-Step or Auto Upgrade option. When you select the default option, Auto Upgrade, and click **Next**, the installation begins. After the installation has finished, the browser window appears displaying the installation log file. Error and warning messages will appear, if there were any problems encountered during the installation.

## IBM WebSphere

Perform the following steps to install DB2 Alphablox to be used with the IBM WebSphere Application Server.

**Note: Installing DB2 Alphablox with WebSphere on Windows:** When installing DB2 Alphablox with WebSphere on Windows systems that will connect to Microsoft Analysis Services data sources, both the WebSphere installation and the DB2 Alphablox installation must be performed by the same Windows user. Otherwise, DB2 Alphablox will fail to connect to Microsoft Analysis Services.

1. Perform the beginning parts of the installation as described in “Begin the Installation: All Configurations” on page 14.
2. Shut down your WebSphere application server.
3. When you get to the **Choose Application Server** screen, select **Install using an Application Server**, then choose the **WebSphere** option from the drop down list.

4. Click the **Next** button. The installer will pop up a warning window alerting you to shut down WebSphere before continuing. Make sure that your WebSphere application has been shut down or the installation will not complete successfully.
5. On the **Configure WebSphere** screen, enter the appropriate information for the WebSphere <websphere\_dir>/AppServer directory in which WebSphere is installed. The installer looks in your WebSphere configuration file to determine the default values. If there are multiple choices for startup scripts, choose the startup script for which WebSphere starts when configured with DB2 Alphablox.
6. Click **Next**, then continue with the installation using “Finish the Installation: All Configurations” on page 17.

## BEA WebLogic

Perform the following to install DB2 Alphablox to run with the BEA WebLogic application server.

1. Perform the pre-installation tasks for WebLogic as described in “Using the BEA WebLogic Application Server” on page 10.
2. Perform the beginning parts of the installation as described in “Begin the Installation: All Configurations” on page 14.
3. Shut down your WebLogic server.
4. When you get to the **Choose Application Server** screen, select **Install using an existing application server** and select **WebLogic8** from the drop down list.
5. Click the **Next** button. The installer will warn you to shut down WebLogic before continuing. If WebLogic is not shut down, the installation will not complete successfully.
6. **WebLogic:**
  - a. Enter the WebLogic Domain Home (e.g., <BEA\_Home>/user\_projects/domains/) and the WebLogic directory where the weblogic.jar file exists (e.g., <bea\_home>/weblogic81/server/lib/). Select or enter the appropriate values for the WebLogic Domain Name, WebLogic Server Name, and the startup files. For the startup files, choose the domain-specific startWebLogic.cmd (Windows) or startWebLogic.sh (Linux and UNIX) file and domain-specific installService.cmd file.
  - b. Click **Next**, then enter WebLogic administrator username and password.

**WebLogic Portal:** After following the above steps for WebLogic, click the **Browse** button to select the WebLogic Server Start File, usually in <BEA\_Home>\portal\bin\win32\startWebLogic.cmd. (Note: Ignore the populated list in the Start File selection box.) Set the path to the Service file, usually located at: <BEA\_Home>\portal\bin\win32\installWebLogicService.cmd.
7. Continue with the installation in the section “Finish the Installation: All Configurations” on page 17

## BEA WebLogic (using Clustered Environment)

See “Using DB2 Alphablox in WebLogic Clustered Environments” on page 21.

## Using Apache Tomcat

To install DB2 Alphablox to run using Apache Tomcat, continue with the installation as follows.

1. On the **Choose Application Server** screen, select the **Install using Tomcat 3.2.4 Application Server** option and include the location of the Apache Tomcat root directory. After making the appropriate selection, click the **Next** button.

**Note:** Apache Tomcat 3.2.4 will not be installed automatically; for this step, you should point to a preinstalled Apache Tomcat 3.2.4 installation.

2. On the **Configure DB2 Alphablox** screen, the installer attempts to find the port number in which your web server is running and puts in default values for the minimum and maximum JRE heap sizes. Accept the defaults or modify the settings, then click the **Next** button.

**Note:** The maximum heap size allowable is 2047 MB; the minimum heap size is 32 MB.

**Important:** You must stop your web server in order to install DB2 Alphablox with an external web server. Turning off the web server is necessary in order to update some configuration files that are locked while the web server is running. If the installer detects your web server is running, you will be prompted to shut it down.

3. Continue with the installation in the section “Finish the Installation: All Configurations.”

## Finish the Installation: All Configurations

To continue with the installation for all configurations, follow these steps:

1. On the **Configure DB2 Alphablox** screen, enter new values or accept the default values for the following:
  - **Telnet Console Port:** the port in which you can access a telnet console to DB2 Alphablox. The selected port must be available on your system.
  - **Server Log File Name:** The name of the active DB2 Alphablox log file.
  - **Console Message Level:** The level of messages that are sent to the console and the log file.
  - **SMTP Server:** The name of an SMTP mail server on your network so applications can be set up to send email.

**Note:** You can also modify these values later using the DB2 Alphablox Admin Pages.

2. On the **Choose J2SE SDK Location** screen, enter the directory where a supported J2SE SDK 1.4 version is installed. Click **Next**.
3. On the **Enable JDBC Drivers** screen, select the directory where your JDBC drivers are installed. After selecting the directory, press the **Enabled JDBC Drivers** button to enable any supported drivers. After enabling JDBC drivers, click **Next**.

**Note:** Supported drivers must be located in a directory that contains only JDBC drivers, either one that you have created exclusively for this purpose (for example, a directory on your hard drive called `JDBCDrivers`) or any directory that contains only JDBC drivers.

**Note:** JDBC drivers must be enabled in order to use an DB2 Alphablox Repository using a database or to use the Relational Reporting functionality.

**Note:** If you are upgrading from previous versions of DB2 Alphablox, the previous version's <db2alphablox\_dir>/lib directory cannot be used.

4. On the **Configure Repository** screen, you can configure DB2 Alphablox to run with a database repository or a file repository. For a file repository, select the **File** button, then click the **Next** button. Skip to Step 12.

**Note:** You can change the settings after installation by running the repository conversion utility. For information about the repository conversion utility and about the different repository types, see the *Administrator's Guide*.

5. To use a relational database for your DB2 Alphablox Repository, click the **Database** button on the **Configure Repository** screen.
6. Select the database type from the drop list. For example, if you are using Oracle 9, choose **Oracle 8i/9i** from the drop list.
7. Enter all the configuration information for the database type selected. Enter a value for every field. If you do not know the proper value, ask your database administrator.
8. After you have entered all of the database configuration information, click the **Next** button. If there is missing information, the installer prompts you to enter it.
9. The installer displays a screen indicating it is going to run an application to connect to the database you configured. Click the **OK** button. If the connection is successful, a message similar to the following appears:  
**Database Connection Test Successful!**  
Press the **OK** button to continue.  
If the connection was not successful, correct any problems and try to connect again.
10. In the **Configure Clustering** screen, select the appropriate radio button for your configuration:
  - **Stand Alone:** This is the setting if you are not running in a clustered configuration.
  - **Lead Node:** Use this setting if you are running in a clustered configuration and the instance you are installing will act as the lead node of the cluster. If you are setting up the lead node, enter or accept the defaults for the IP address or the host name for your server, a port number for the cluster to listen on, the maximum number of hosts in the cluster, and the startup time.
  - **Normal Node:** Use this setting if you are running in a clustered configuration and the instance you are installing will not be the lead node of the cluster.
11. Use the **Configure Conversion Utility** screen to enter the values for clustering options and any options for converting from an existing repository to a new one.

**Note:** You can change the settings after installation by running the repository conversion utility and by editing the **Cluster Options** administration page. For information about the repository conversion utility, about the different repository types, and about clustering options, see the *Administrator's Guide*.

The **Configure Conversion Utility** screen is where you set the options for how the existing (source) repository (if one exists) is converted to the new (destination) repository. The available **Conversion Operations** are as follows:

- **COPY:** leaves the source repository in place and creates a copy of it in the destination repository.
- **CHANGE:** changes the active repository to the destination repository.
- **MOVE:** deletes the source repository and creates a new repository in the destination repository.

The **Move Server Properties** drop list specifies how to migrate the server properties files to the instance of DB2 Alphablox you are installing. The options in the drop down list are as follows:

- **ALL:** specifies that all server properties be converted.
- **GLOBAL:** specifies that only the properties shared by the cluster (not the local machine entries) be converted.
- **SPECIFIC:** specifies that only the server properties specific to the local machine (not the clustered properties) be converted.

The **Existing Repository Tables** drop list specifies how the repository conversion utility treats existing tables in the repository:

- **Update:** Specifies that a Move or Copy operation updates the destination repository with information from the source repository, rather than replacing the contents of the destination repository.
- **Overwrite:** Deletes the existing tables and then recreates them.

The **User defined DDL schema file** box specifies a DDL file to use in place of the default DDL files that create the database objects for the repository. Do not check this box unless you have thoroughly tested your DDL files. The default DDL files are sufficient for most installations.

After entering all the information for the **Configure Conversion Utility** screen, click the **Next** button.

12. Review the options you have selected on the **Pre-Installation Summary** screen. If you need to change any options, click the **Previous** button to navigate to any previous screens and correct your configuration. If all of the options look correct, click the **Install** button to install DB2 Alphablox. The installation will take several minutes.
13. When the installation completes, the **DB2 Alphablox Installation Complete** screen appears. Click the **Done** button. The installation log displays in a browser window.
14. If you get a message in the installation log about your ARBORPATH environment variable, you have an existing DB2 OLAP Server or Essbase installation on your machine and there might be a conflict between the two installations if you are running DB2 Alphablox as a Windows service. If you get this warning and you plan on running DB2 Alphablox as a Windows service, contact your DB2 OLAP Server or Essbase system administrator to determine if the version of DB2 OLAP Server or Essbase to which your ARBORPATH environment variable is pointing is compatible with DB2 Alphablox. If you do not resolve the conflict, you might not be able to connect to DB2 OLAP Server or Essbase when running DB2 Alphablox as a Windows service (depending on the version of DB2 OLAP Server or Essbase you have installed).
15. Perform the post-installation tasks defined in Chapter 4, “Post-Installation Tasks,” on page 27.

---

## Using DB2 Alphablox in WebSphere Clustered Environments

### System Requirements

To operate DB2 Alphablox in a clustered environment, the following requirements must be met:

- Two or more computers each running the same version of DB2 Alphablox.
- Each instance of DB2 Alphablox must be configured to access the same DB2 Alphablox Repository, which must reside in a relational database.
- One instance of DB2 Alphablox must be configured to be the lead host in the cluster.
- Each instance of DB2 Alphablox must have identical application content in WebLogic applications directories; they can either share the applications directory through a shared filesystem or have the applications directory replicated on each computer. Additionally, the path to the applications directory must be identical on each node.
- Each computer in the cluster must have a static IP address.

**Note:** Constraints on the use of DB2 Alphablox in WebSphere clustering environments include the following:

- Failover is not supported
- Vertical clustering is not supported
- DB2 Alphablox supports only the session affinity (or sticky session) setting in load balancing software.

### Installing DB2 Alphablox in IBM WebSphere Clustered Environments

If you are running DB2 Alphablox within IBM WebSphere application servers configured in a clustered environment, perform the following tasks before running the DB2 Alphablox installer:

1. Verify that the WebSphere cluster and the WebSphere Web Server plug-in (`plugin-cfg.xml`) are working without any problem before trying to install DB2 Alphablox.
2. Set the WebSphere server group and application servers so that, by default, the Node startup state is set to Stopped when starting up the administrative server.
3. Shut down all WebSphere application servers and administrative servers on the nodes before beginning the installation of DB2 Alphablox.
4. Install DB2 Alphablox on the Lead Node machine first. Choose a database repository for DB2 Alphablox during installation, then select the Lead Node option.
5. After installing DB2 Alphablox on the Lead Node machine, start up all administrative servers on all nodes, but do not start up any application servers yet.
6. Now start up only the WebSphere Lead Node server, in order to allow DB2 Alphablox to create all necessary repository objects in the database. Verify the WebSphere log file to make certain there are no error messages, that DB2 Alphablox started up successfully, and make sure you see the following message: "Repository operation completed successfully".
7. Install DB2 Alphablox on all other normal node machines.
8. Start up all of these other node machines, one at a time.



9. Verify that you can shut down and start up the whole WebSphere cluster of application servers by stopping and restarting the Server group created for all of the application servers in the cluster.
10. Regenerate the WebSphere Web Server plug-in, and copy the newly generated `plugin-cfg.xml` file to the machine running the web server.

---

## Using DB2 Alphablox in WebLogic Clustered Environments

### System Requirements

DB2 Alphablox provides application administration capabilities to create, delete, modify, or import J2EE application without using the WebLogic console and without requiring a restart of the server. These capabilities will only be available if one of the following configurations is used:

1. DB2 Alphablox installed on a single WebLogic server that is also a WebLogic Admin Server.
2. DB2 Alphablox installed on a single WebLogic server that is in the same machine as a WebLogic Admin Server.
3. DB2 Alphablox installed in cluster mode on physically separate Managed Servers, with all servers pointing to the same application directory using File Sharing (note: this is not recommended by BEA). If this option is selected, you must also perform the tasks listed in “Using DB2 Alphablox with WebLogic Managed Servers” on page 23.

If DB2 Alphablox is to be used in a WebLogic cluster, then Alphablox recommends that developers use either of the first two options (1 or 2 above) for developing, testing, and debugging an application prior to deploying on a cluster.

**Note:** The following constraints apply to the use of DB2 Alphablox in WebLogic clustering environments:

- Failover is not supported
- DB2 Alphablox supports only the session affinity (or sticky session) setting in load balancing software.

To use the load balancing in WebLogic clustering environments with built-in WebLogic load-balancing software and the round-robin option, BEA recommends either using an odd number of servers (at least 3) or use form-based authentication. (If neither of these options is used, the load will be placed on even-numbered servers.)

### Installation

Complete the following steps to set up a clustered DB2 Alphablox environment using WebLogic clusters. There are other possible variations on this procedure that will work, but any procedure must include most of the steps described here.

1. Setup a WebLogic cluster as defined in the WebLogic documentation.
2. Verify that you have WebLogic installed on 3 machines, 1 WebLogic Admin Server and 2 WebLogic Managed Servers.
3. All DB2 Alphablox installations should be on the same path, especially on each of the Managed Servers.
4. Install DB2 Alphablox on the WebLogic Admin Server as if you were configuring a standalone WebLogic system. All systems will be using database versions of the DB2 Alphablox Repository.

5. Install DB2 Alphablox on the first Managed Server and configure it as the lead node.
6. Install DB2 Alphablox on the other Managed Servers as normal nodes.
7. Start the WebLogic Admin Server.
8. Start up the WebLogic console by pointing your web browser to the following URL:  
`http://<serverName>:7001/console`
9. For each application, set the application target to point to the cluster by following these steps [alternatively, you can manually edit the `config.xml` file to make the following changes]:

**Note:** You may want to make a backup copy of the original `config.xml` file, in case you need it later.

- a. Select **AlphabloxAdmin** under Deployments > Applications > AlphabloxPlatform.
  - b. Select Target Tab from right side frame.
  - c. Select Cluster Tab.
  - d. Under Available you should see the Cluster you have created. Select this and move it to Chosen.
  - e. Click on Apply.
  - f. Repeat these steps for all DB2 Alphablox applications.
  - g. Make certain that none of the applications point to the Admin Server except for the "Default Web App."
10. Configure the appropriate load balance software for your system. The `HttpClusterServlet` provided by BEA can be used to test load balancing. See BEA WebLogic Server documentation for details about the use of this servlet. Described below are the steps to configure this load balancing servlet:
    - a. Set the target of the "Default Web App" to the Admin Server as well as the cluster.
    - b. Check that you have created the admin user in WebLogic (In the Pre-Installation section, see step 4, "Using the BEA WebLogic Application Server" on page 10).
    - c. Log into the WebLogic admin console.
    - d. Select `DefaultWebApp` under Web Applications.
    - e. Click on Edit Web Application Deployment Descriptors.
    - f. Configure a new servlet named `HttpClusterServlet`
    - g. Servlet class is `weblogic.servlet.proxy.HttpClusterServlet`
    - h. Add the `DebugConfigInfo` parameter under the servlet, setting the value to ON.
    - i. Add another parameter under `HttpClusterServlet` called `WebLogicCluster`, with the following value:  
`<server1>:7001:7002|<server2>:7001:7002`  
 where `server1` and `server2` are your WebLogic Managed Servers.
    - j. For `HttpClusterServlet`, create the following servlet mappings:
      - 1) `*.htm`
      - 2) `*.jsp`
      - 3) `*.html`
      - 4) `/`
    - k. Persist all of the above changes.



**Note:** HTTPClusterServlet is intended only for testing purposes and is not for use in a production environment. Performance issues may arise with the cluster if this servlet is used in a production environment.

### Continue with Rest of Setup

1. On each of the WebLogic Managed Server start scripts, add the following Java™ property:  
-Dalphablox.admin.appserver.multiMachine=true  
before the following text:  
webLogic.Server  
and after the following property:  
-Dalphablox.weblogic.admin.password=<password>

**Note:** This tells this server that applications need to be copied to other systems. A notification alert should appear when you create DB2 Alphablox applications using DB2 Alphablox Admin Pages.

2. On the system where the lead node is installed, start the WebLogic Managed Server. Make sure that you see DB2 Alphablox started before you start the normal node.
3. After the lead node console displays the DB2 Alphablox started message, start the normal node.
4. Verify that your configuration of the HttpClusterServlet is functioning correctly as your load balancing software. Set the DebugConfigInfo parameter to ON by adding the following <init-param> block to the <servlet> block that defines the HttpClusterServlet in your web.xml file:  
<init-param> <param-name>DebugConfigInfo</param-name>  
<param-value>ON</param-value> </init-param>
5. Use a Web browser to access the following URL:

`http://serverName:port/placeholder.jsp?__WebLogicBridgeConfig`

where myServer is the WebLogic Server instance that is using the HttpClusterServlet to proxy requests, port is the port number on that server that is listening for HTTP requests, and placeholder.jsp is a file that does not exist on the server.

The plug-in gathers configuration information and run-time statistics and returns the information to the browser. For more information, see [DebugConfigInfo](#).

For example:

`http://10.3.20.227:7001/  
placeholder.jsp?__WebLogicBridgeConfig`

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## Using DB2 Alphablox with WebLogic Managed Servers

A fourth option is to have DB2 Alphablox installed in a WebLogic cluster with physically separate Managed Servers, but without using File Sharing. When this option is used, all DB2 Alphablox administration functionality will be available, except application creation, deletion, modification and import.

**Note:** To use this option, the following line must be added to the starting scripts for each Managed Server that DB2 Alphablox is installed on:

-Dalphablox.admin.appserver.multiMachine=true

After adding this line to your starting scripts, use the WebLogic console to perform these application-related tasks:

1. After creating a new DB2 Alphablox application and adding new files, copy the application directory, including all files, from the Managed Server to the Admin Server. [Note: When you create a new application using the DB2 Alphablox Admin Pages, you will see a message stating which Managed Server the application was created in.]
2. Use the WebLogic console to register the application with the target to be the same as the Managed Server that the application was created in.
3. Test the application and add files as necessary until the application is ready for production

**Note:** Constraints on the use of DB2 Alphablox in WebLogic clustering environments include the following:

- Failover is not supported

DB2 Alphablox supports only the session affinity (or sticky session) setting in load balancing software.

---

## Using DB2 Alphablox with WebLogic Vertical Clusters

Vertical clusters allow multiple instances of WebLogic application servers to run on a single machine. DB2 Alphablox supports the use of WebLogic vertical clusters within a single domain. If you will be using WebLogic vertical clusters with DB2 Alphablox, perform the following pre-installation and installation steps for BEA WebLogic and DB2 Alphablox:

### WebLogic Configuration

1. Set up your domain using the WebLogic Domain Configuration Wizard and the WebLogic documentation.
2. During this process, select the Admin Server with Clustered Managed Servers option. Add each of the Managed Servers to the list of servers, choosing unique names (e.g., Server1, Server2, etc.) and making sure to use different listening ports and SSL ports for each machine.

**Note:** The IP address is the same for all of the servers since they reside on the same physical machine.

3. Complete the rest of the Domain Configuration Wizard.
4. Start the WebLogic Admin Server from the Start menu.
5. Go to the WebLogic Console by pointing a web browser to the following address:  
`http://<server>:7001/console` (where <server> is the server instance's IP address or name)
6. Set up security as usual. (For details on configuring and using DB2 Alphablox security, see the Security and Authentication chapter of the *Administrator's Guide*)
7. Make copies of the Managed Server batch file (`startManagedWeblogic.cmd` for Windows; `startManagedWeblogic.sh` for Linux and UNIX) for each of the Managed Servers in your vertical cluster, renaming the file copies for each of the servers, for example, to `StartManaged1.cmd`, `StartManaged2.cmd`, etc. This file is located in the directory of the domain that you just created through the wizard, for example:

d:\bea\_v702\user\_projects\vertDomain

8. Add the value for SERVER\_NAME and ADMIN\_URL to each of the newly copied Managed Servers. For example:

SERVER\_NAME=server1, ADMIN\_URL=http://i18neng2kd:7001

## DB2 Alphablox Installation Steps

After performing the WebLogic configuration steps above, you can now install DB2 Alphablox by following these steps:

1. Install DB2 Alphablox on the WebLogic Admin Server, and when prompted, name the server with a unique server instance name (e.g., AdminAnalysisServer) and install DB2 Alphablox in a uniquely-named directory (e.g., AdminAlphablox).
2. When the WebLogic configuration dialog appears during the installation of DB2 Alphablox:

- a. Select the proper start domain and start files.

**WebLogic:** Choose the domain-specific startWebLogic.cmd (Windows) or startWebLogic.sh (Linux and UNIX) file and domain-specific installSvc.cmd file under the following directory:

```
../user_projects/domain/<domainName>
```

- b. Choose the database repository option and configure it as standalone.
3. After installing DB2 Alphablox on the Admin Server, install DB2 Alphablox on the first Managed Server:

- a. Specify a unique instance name (for example, Server1) and directory location (e.g., d:\vertical\server1).
- b. Select the proper domain in the WebLogic configuration dialog.
- c. Point to the WebLogic start file for the first Managed Server's start file created earlier (for example, StartManaged1.cmd).
- d. Set this up as the Lead node.

**Note:** Technically, this may or may not be the Lead node, but during installation the database repository requires that a Lead node is specified before the Normal nodes are created.

4. Install the second Managed Server, naming it, for example, server2.
  - a. Specify a unique instance name (for example, Server2AnalysisServer) and directory location (e.g., d:\vertical\server2).
  - b. Select the proper domain on the WebLogic configuration window.
  - c. The WebLogic start file should be the second Managed Server start file created earlier (for example, StartManaged2.cmd).
  - d. Set this up as a Normal node

**Note:** This may or may not actually be the Normal node, depending on which Managed Server starts up first.

5. Under the domain directory you created earlier, modify the config.xml, setting each of the targets to point to the servers, in this case, server1 and server2. At this point, each of the DB2 Alphablox applications will point to the last server that you installed (in this example server2). Change this to include both servers (separating the names with commas): server1,server2.

**Note:** Make a copy of the original config.xml file before making any changes, just in case you need it.

6. Start the WebLogic Admin Server first. This needs to be running before the Managed Servers are started.
7. Next, start server1, then server2. The first Managed Server to be started will be the Lead node. You should see "DB2 Alphablox <instance name> started" on the DB2 Alphablox console.

**Note:** If you see an error that "Common batch file to alter does not exit::callWebLogic," then you need to add a call to aassetup.bat (or aassetup.sh for Linux and UNIX) before the WebLogic server is started.

8. Now you should be able to connect to either Server1 or Server2, both of which share the same repository.

**Note:** If you require any type of load balancing scheme, you'll need to set that up separately.

---

## Chapter 4. Post-Installation Tasks

This chapter describes the tasks required after running the DB2 Alphablox installer on Linux, UNIX, and Windows systems.

- “Post-Installation Steps for WebSphere” on page 27
- “Post-Installation Steps for WebLogic” on page 30
- “General Post-Installation Tasks” on page 30
- “Post-Installation Notes” on page 36
- “Uninstalling from Windows” on page 37
- “Uninstalling from Linux and UNIX Systems” on page 37
- “Loading the Sample Data” on page 38

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### Post-Installation Steps for WebSphere

If you are installing a new DB2 Alphablox installation, perform the post-installation steps in the “New Installation” section below. If you are upgrading an existing installation, follow the steps under “Upgrade” on page 29 below.

#### New Installation

If you are installing a new installation of DB2 Alphablox, perform the following steps to install the Alphablox Platform and Application Studio:

1. Start your WebSphere application server.
2. Enable required WebSphere security settings by performing these steps:
  - a. Go to your WebSphere Administrative Console. [Note: If you are prompted for username and password, then Global Security is already set up and you can skip these steps on enabling security.]
  - b. In the left frame, select Security > User Registries.

If you are using the Local OS option:

- 1) Add values for Server User ID and Server User Password.

Enter values for a user predefined on your system or create a new user on your machine (e.g. wsadmin), that will be used for administering your WebSphere server, including using the WebSphere Administrative Console and stopping the server.

- 2) Go to Security > Global Security, check Enabled, uncheck Enforce Java 2 Security, and set Active User Registry to Local OS.

If you are using the LDAP option:

- 1) Add values for LDAP connection information.
- 2) Go to Security > Global Security, check Enabled, uncheck Enforce Java 2 Security, and set Active User Registry to LDAP.

**Note:** WebSphere supports both Active Authentication Mechanism SWAM (Simple WebSphere Authentication Mechanism) and LTPA (Lightweight Third Party Authentication). To support LTPA, use the WebSphere Network Deployment Manager to set up a WebSphere Cluster by performing the following steps:

- 1) Go to Security > Authentication Mechanisms > LTPA.

- 2) Fill in the password field with the appropriate value.

**Note:** Clustered environments only: Use the Administrative Console of the WebSphere Network Deployment Manager instead of the WebSphere Administrative Console.

3. Modify the scripts for starting and stopping your WebSphere server as follows:

#### **Windows**

- a. Open Start > All Programs > IBM WebSphere > Application Server , right-click on the Stop the Server option, then select Properties.
- b. In the Properties window that appears, find the Target field and add “-username <username> -password <password>” to the end of the string. For example:

```
"C:\Program Files\WebSphere\AppServer\bin\stopServer.bat" server1  
-username wsadmin -password wpassword
```

- c. Press OK button to apply the change.

#### **Linux and UNIX**

- a. When stopping your WebSphere application server, you need to run the stopServer.sh command, adding the required “-username <username> -password <password>” string as command parameters. For example:  
stopServer.sh server1 -username wsadmin -password wpassword
4. Select Applications > Install New Application.
  5. On the **Preparing for the application installation** screen, click the Browse button and choose the following path:

```
<db2alphablox_dir>/installableApps/AlphabloxPlatform.ear  
then click Next.
```

**Note:** Clustered environments only: You might need to use the server path setting to browse through the network to locate the AlphabloxPlatform.ear file.

6. The next screen shows the **Default Bindings Options**. Leave the default settings, unless you require different bindings, then click Next.
7. The **Application Security Warning** screen appears. Scroll to the bottom of this page and click on the Continue button.
8. The next section, **Install New Application**, consists of the following five steps as displayed in the dialog:

#### **Step 1: Provide options to perform the installation**

You can leave the existing settings and click Next.

#### **Step 2: Map virtual hosts for web modules**

Accept the existing values and click Next.

#### **Step 3: Map modules to application servers**

Accept the existing values and click Next.

#### **Step 4: Map security roles to users/groups**

Two roles, AlphabloxAdministrator and AlphabloxUser, should appear. You need to add at least one user for each role.

For the AlphabloxAdministrator role, check the checkbox in front of that role, then press the Lookup Users or Lookup Groups buttons to add administrative users. You must select at least one user. After you have added the users or groups, they should be listed in the Mapped Users or Mapped Groups value for this role.

For the AlphabloxUser role, check the checkbox under the All Authenticated column for this role. This allows all authenticated users to access applications. When finished, click Next.

#### Step 5: Summary

Scroll to the bottom of this screen, then press the Finish button.

9. The application is then installed and “Application AlphabloxPlatform installed successfully” will be displayed. Click on the **Save to Master Configuration** link.
10. The **Save to Master Configuration** dialog should appear. Click on the Save button. After a short wait period, you will be returned to the Administrative Console home page.
11. Next install the Application Studio by repeating step 2 above, but this time select the ApplicationStudio.ear in the installableApps directory.
12. In the WebSphere Administrative Console, open Applications > Enterprise Applications and restart both the AlphabloxPlatform and ApplicationStudio applications.

The steps used to install AlphabloxPlatform and ApplicationStudio must be used with every WebSphere application, including DB2 Alphablox applications.

## Upgrade

If you are performing an upgrade of an existing DB2 Alphablox installation, perform the following steps:

1. Start your WebSphere application server.
2. Open the WebSphere Administrative Console using your web browser.

**Note:** Clustered environments only: Use the Administrative Console of the WebSphere Network Deployment Manager instead of the WebSphere Administrative Console.

3. Select Applications > Enterprise Applications.
4. In the main frame, check the checkbox for the AlphabloxPlatform application, then press the **Update** button.
5. On the **Preparing for the application update** screen, click the Browse button and choose the following path:

```
<db2alphablox_dir>/installableApps/AlphabloxPlatform.ear
```

then click Next.

**Note:** Clustered environments only: You might need to use the server path setting to browse through the network to locate the AlphabloxPlatform.ear file.

6. The next screen allows you to generate default bindings and mappings. Leave the default settings, then click Next.
7. The **Application Security Warning** screen appears. Click on the Continue button.
8. The next screen, **Install New Application**, actually consists of the following five steps:

#### Step 1: Provide options to perform the installation

You can leave the existing settings and click Next.

#### Step 2: Map virtual hosts for web modules

Accept the existing values and click Next.



### Step 3: Map modules to application servers

Accept the existing values and click Next.

### Step 4: Map security roles to users/groups

Two roles, AlphabloxAdministrator and AlphabloxUser, should appear. You need to add at least one user for each role. For an upgrade, you should just need to review the existing settings.

When finished, click Next.

### Step 5: Summary

Scroll to the bottom of this screen, then press the Finish button.

9. The application is then updated and "Application AlphabloxPlatform installed successfully" will be displayed. Click on **Save to Master Configuration** link.
10. The **Save to Master Configuration** dialog should appear. Click on the Save button. After a short wait period, you will be returned to the Administrative Console home page.
11. Next update the Application Studio application by repeating the steps above, but this time select the ApplicationStudio.ear in the installableApps directory.

The steps used to install AlphabloxPlatform and ApplicationStudio must be used with every WebSphere application, including DB2 Alphablox applications.

---

## Post-Installation Steps for WebLogic

If you are using DB2 Alphablox with a BEA WebLogic application server to connect to Oracle, make certain that you have the correct Oracle JDBC driver installed on WebLogic. WebLogic 8.1 ships the Oracle JDBC driver (920) installed in the following directory:

```
<bea_dir>\weblogic81\server\lib
```

**Note:** For information on proxying requests from Netscape, Apache, or Microsoft IIS web servers to the BEA WebLogic Server, refer to the BEA documentation, available at <http://edocs.bea.com>, and search using the keyword "plug-in." Follow the directions under "Proxy by path" for your specific web server. For a sample of all paths that need to be proxied, or for an example of an `iisproxy.ini`, refer to the following file:

```
<db2alphablox_dir>/conf/iisproxy.ini-alphablox (this file is generated only on WebLogic installations).
```

**Note:** If you plan on running Microsoft IIS as the web server running behind WebLogic, and decide to use a request port other than the default one of 7001, you will need to edit the `WebLogicPort` parameter value, located in the following file:

```
<db2alphablox_dir>/conf/iisproxy.ini-alphablox
```

---

## General Post-Installation Tasks

Perform the following tasks after installing DB2 Alphablox:



## Save your original configuration files

**Important:** During installations, the installer backs up `server.xml` and `web.xml` files in the same directory as the original files, appending them with the `.AlphabloxBackup` extension (`server.xml.AlphabloxBackup` and `web.xml.AlphabloxBackup`). If you have made changes to these files, you will need to merge the changes manually. The installer maintains a single backup copy of these files, overwriting older backup copies.

## Relational reporting applications (5.1 or earlier only)

For relational reporting applications created using Alphablox 5.1 or earlier, you should clear the cached JSP pages on your application server in order to avoid potential issues with changes made in the behavior of the StyleBlox. To clear the cached JSP files:

### WebSphere

To clear all cached JSP files in IBM WebSphere application servers, empty the temp directories for your server, located here:

```
<websphere_dir>/AppServer/temp/
```

### Apache Tomcat

To clear all cached JSP files in DB2 Alphablox implementations using Apache Tomcat, delete all of the files in the work directory, located here:

```
<db2alphablox_dir>/appserver/work
```

### WebLogic

To clear all cached JSP files in BEA WebLogic, either redeploy all applications to force a recompilation, or empty all temp files located in the following directory:

```
<bea_dir>/user_projects/domains/.wlnotdelete/extract/*
```

## Microsoft IIS-Specific Post-Installation Steps

If you have installed a standalone configuration and are using IIS as a web server, you must perform the following (You can skip this section if you are not using Microsoft IIS as your web server):

Before proceeding, reboot the machine.

### For IIS 6

If you have installed Microsoft IIS 6 as your web server, the installer will post a series of warning messages in the installation log. These messages can be resolved in the following manner.

The following message

```
Microsoft IIS v6 does not allow programs to register filter DLLs.  
In order to run Alphablox with IIS v6 you must manually register  
<scripts_dir>isapi_redirect.dll. See install documentation for more  
information.
```

Can be resolved by doing the following:

1. Open Microsoft's Internet Information Services Manager (usually in the Administrative Tools folder)
2. Select the web site you want to use with DB2 Alphablox, right-click and select properties
3. Select the ISAPI Filters tab

4. Press the Add button and enter a filter name (name does not matter) and executable which would be at `<inetpub_dir>\scripts\isapi_redirect.dll`

The warning message

Please make sure that you have an IIS virtual directory named 'Scripts' that points to the `<scripts_dir>` directory. This virtual directory must be set to have execute rights.

appears because the Scripts virtual directory needs to have executable rights. The following steps will accomplish this:

1. Open the Microsoft Internet Information Services Manager (usually in the Administrative Tools folder)
2. Select the web site you want to use with DB2 Alphablox, right-click and select new virtual directory
3. At the virtual directory alias page, enter "Scripts"
4. At the web site content directory page, enter `<scripts_dir>`, usually `<inetpub_dir>\scripts`
5. At the virtual directory access permissions page, select read, run scripts, and execute

The warning message

By default Microsoft IIS v6 prohibits all unknown ISAPI extensions. In order for DB2 Alphablox to work correctly with IIS, this setting must be changed to 'Allow'. See install documentation for more information.

appears because by default, the ISAPI redirect DLL (`isapi_redirect.dll`) does not have permission to be executed. The following steps will give IIS the needed permission:

1. Open Microsoft's Internet Information Services Manager (usually in the Administrative Tools folder)
2. Select the web service extensions item
3. In the right pane there will be an entry for All Unknown ISAPI Extensions that needs to be set to Allow, not Prohibited, the default

### General Configuration of IIS for DB2 Alphablox

Perform the following steps regardless of the version of IIS you are using

1. Shut down IIS using the services dialog (not from the IIS user interface). From the services control panel document (**Control Panel, Administrative Tools, Services** on Windows 2000 (Windows 2003), **Control Panel, Services** on Windows), select the **IIS Admin Service** and click the **Stop** button.
2. Run the following batch file to create the virtual directories required by DB2 Alphablox:  
`<db2alphablox_dir>\bin\IISVGen.bat`  
where `<db2alphablox_dir>` represents the directory in which DB2 Alphablox is installed.

### Configuring NTLM (or other) Security with IIS on Apache Tomcat Installations

To add support for NTLM or your own security with IIS:

1. Make sure that DB2 Alphablox has been shut down.
2. Edit the file `server.xml` under `<tomcat_dir>\conf`

Comment out the following two XML Elements (our basic authentication interceptors) by adding <!-- before the element and --> after the element:

```
<RequestInterceptor
  className=
    "com.alphablox.server.adapter.tomcat.SimpleAccessInterceptor"
  debug="1" />

<RequestInterceptor
  className=
    "com.alphablox.server.adapter.tomcat.SimpleRealm"
  debug="1" />
```

and add the following element in the same place:

```
<RequestInterceptor className =
"com.alphablox.server.adapter.tomcat.NTLMLRealm" debug="1" />
```

## Configuring IIS, WebLogic, and DB2 Alphablox to Support NTLM

Perform the following steps to configure the combination of Microsoft IIS, BEA WebLogic, and DB2 Alphablox to support NTLM authentication:

1. Make sure that you do not have the following item in the your Windows Registry: HKEY\_LOCAL\_MACHINE/System/CurrentControlSet/Servers/W3SVC/Parameters/Filter DLL

If you find it, delete it using the Registry Editor (regedit). This Registry item is set by the DB2 Alphablox installer if you install an DB2 Alphablox implementation using Apache Tomcat with IIS.

2. Copy the file <alphablox>/conf/iisproxy.ini-alphablox to <bea\_home>/weblogic81/server/bin.
3. The iisproxy.ini-alphablox file is a template from DB2 Alphablox that is updated every time DB2 Alphablox creates or deletes an application. Rename it now to iisproxy.ini, removing the "-alphablox" at the end of the file.
4. For single server, use the following parameters in the iisproxy.ini file:  
WebLogicHost=localhost  
WebLogicPort=7001  
For cluster use the following parameters:  
WebLogicCluster=localhost:7001,localhost:7002, othermachine:7001
5. Start IIS administration.
6. Create new web site (or edit existing web site).
7. Add the filter, iisforward.dll, located under <bea\_home>/weblogic81/server/bin to the web site using IIS admin.
8. Map .wlforward to use iisproxy.dll:
  - a. Select the web site.
  - b. Right-click and select the Properties menu item.
  - c. Select Home Directory tab.
  - d. Select the Configuration button.
  - e. Select the Application Mapping tab.
  - f. Click the Add button.
  - g. Set Executable to be <weblogic\_dir>/weblogic81/server/bin/iisproxy.dll and the extension to .wlforward. The .wlforward is mapped to iisproxy.

9. Enable security for the web site.
10. Restart IIS.
11. Remove all security constraints on all of the applications by using the WebLogic console to remove the security constraints and the login config.

Alternatively, you can edit the web.xml, removing the security-constraints element and the login-config element as well as all security roles definitions.

12. Start IIS and the web site, and WebLogic.
13. Set up DB2 Alphablox to use the NTLMUserManager. After DB2 Alphablox has started successfully; do the following:
  - a. Connect to telnet console (not HTML)
  - b. Run the following commands:

```
ExtUserManager umclassname
com.alphablox.personalization.ntlm.NTLMUserManager
ExtUserManager userclassname
com.alphablox.personalization.ntlm.NTLMUser
```
  - c. Save.
  - d. Stop user.
  - e. Start user.
14. Go to the DB2 Alphablox Admin Pages using IIS.

This setup now enables IIS to manage security and DB2 Alphablox to get the user name from IIS.

## Starting DB2 Alphablox

Run the following steps to startup and verify your DB2 Alphablox installation:

1. If you are running DB2 Alphablox behind an application server cluster, you must start the lead node of your cluster before you attempt to start your normal nodes.
2. If you are installing behind IIS, make sure, you start DB2 Alphablox before you start IIS. To shut down IIS, start the Microsoft Management Console, then stop the default web site (for example, by clicking the Stop button).

**Important:** DB2 Alphablox must be started the first time **before** IIS is running at all. When DB2 Alphablox starts the first time, it create a few files that IIS will be looking for when IIS starts up. After DB2 Alphablox is running for the first time, then start IISAdmin from the Windows Services control panel, then (if necessary) start up page serving from the Internet Information Services manager.

If IIS was already running before DB2 Alphablox was run for the first time and DB2 Alphablox application pages will not load properly, simply stop and restart IIS as described above.

3. If you have installed an Apache Tomcat configuration and are using either Apache or iPlanet as a web server, make sure Apache or iPlanet is stopped before you start DB2 Alphablox for the first time. Wait until the **DB2 Alphablox started** message appears before starting Apache or iPlanet.
4. Start DB2 Alphablox.
  - If you are running under WebSphere or WebLogic, start the instance of the application server in which DB2 Alphablox is installed.
  - If you are running an Apache Tomcat configuration, you can start DB2 Alphablox from the Windows **Start** menu or, on Linux and UNIX systems, by running the StartAlphablox.sh script.
5. If you are running behind IIS, wait until the **DB2 Alphablox started** message appears in the console. After the DB2 Alphablox startup is complete, start the

IIS web server. You can start IIS by starting the **Microsoft Management Console**, then start the **Default Web Site** (for example, by clicking the start button).

6. If you have installed an Apache Tomcat configuration and are using Apache as a web server, start Apache.
7. Verify that DB2 Alphablox is running. If you are able to log in to the DB2 Alphablox home page, the server is running.

## Checking your Installation and Server logs

The DB2 Alphablox installation process creates a series of log files. Use the following steps to ensure that the process went smoothly:

1. Check the installation log file for any errors. You can display the file from the Windows shortcut **Start > All Programs > DB2 Alphablox > <InstanceName> > DB2 Alphablox Installation Log**, or you can view it by opening the following file in a browser:

```
<db2alphablox_dir>/alphablox_install_log.html
```

where <db2alphablox\_dir> represents the root directory where DB2 Alphablox is installed.

2. If the installation log file contains any errors or warnings about conflicting DLL files for DB2 OLAP Server or Essbase, contact DB2 Alphablox Customer Support.
3. If you specified a port number other than 80 on the installation, the installation log file displays a warning message. This message is expected and is used to log that a port number other than the default was selected.
4. Review the server log file (the default name is `server.log`), which contains a log of DB2 Alphablox installation events. The log files are located in the following directory:

```
<db2alphablox_dir>/repository/servers/<instance_name>/logs
```

**Note:** During the installation, the update console command is automatically run on DB2 Alphablox. The update command performs system maintenance tasks. If the command failed for some reason, it would be logged with an error message explaining why it failed in the server log file. If there are no error messages, then the command was successful. If you find that the update command has failed, correct the problem and run it again by running the following command from a console window:

```
update
```

## MIME Settings

The MIME settings on your web server must have the following configured for XML files:

```
xml=text/xml
```

## Security and Authentication configuration

The following steps address connectivity configuration procedures:

1. See the *Administrator's Guide* for special security considerations.
2. If you are connecting to a Sybase database server, you must run the appropriate SQL script before you can connect. For details, see the *Administrator's Guide*.
3. Use the DB2 Alphablox Administration pages to establish appropriate access privileges for end users and developers. See the *Administrator's Guide* for details.

4. Use the DB2 Alphablox Administration pages to define users, groups, roles, data sources, and applications. See the *Administrator's Guide* details.

## Configuring PDF printing on clustered server configurations

If you are running DB2 Alphablox behind a WebLogic or WebSphere cluster, you need to identify a shared folder on all the nodes of your cluster where your PDF files should be stored. Perform the following post-installation steps to set up the PDF printing feature:

1. Shut down your WebLogic or WebSphere cluster.
2. If you are using WebLogic, will need to edit the `web.xml` file on your administration server. If you are using WebSphere, you need to edit the `web.xml` file on every node in your cluster. The `web.xml` file is under

```
<Alphablox_Install>\system\AlphabloxPlatform\AlphabloxServer\WEB-INF\
```

Change the value of the `PdfTemporaryArea` tag to point to a mounted drive where you want your PDF temporary files to be stored:

```
<context-param>
  <param-name>PdfTemporaryArea</param-name>
  <param-value>@PDF_TEMPORARY_AREA@</param-value>
</context-param>
```

Change `@PDF_TEMPORARY_AREA@` to the name of the shared mounted drive. For example (On Windows):

```
<context-param>
  <param-name>PdfTemporaryArea</param-name>
  <param-value>P:\PDFTempDir</param-value>
</context-param>
```

where `P:\PDFTempDir` is the shared folder on system.

3. On each of your WebLogic Managed Servers, map/mount a drive to point to the logical partition where your PDF temporary files were specified in your administration server's `web.xml` file. In the previous example on Windows, you would map the `P:\` network drive on your Managed Server, and it would point to the system and logical partition where your `\PDFTempDir` directory is located.
4. Restart your cluster, it should now be aware of the new property.

## Wrapping up your installation

Check the DB2 Alphablox *Release Notes*. To access the *Release Notes*, open the DB2 Alphablox Online Documentation and click the *Release Notes* link in the table of contents, or use the shortcut on the Windows **Start** menu. The *Release Notes* contain information that may not be included elsewhere in the Online Documentation, as well as descriptions of potential problems and available workaround for the current version.

---

## Post-Installation Notes

Note the following after you have successfully installed DB2 Alphablox:

- The default username is: **admin**, or the username you designated.
- The default password is: **password**, or the password you specified.  
Be sure to change the password as soon as possible.
- The default ports are as follows:  
Request Port: 80 (or whatever your application or web server is set to)  
Telnet Console Port: 23
- Start DB2 Alphablox.

- [WebSphere/WebLogic] Start the application server to start up DB2 Alphablox. For WebSphere running on Windows, you can select **Start > All Programs > IBM WebSphere > Start the Server**.
- [Tomcat] On Windows, select **Start > All Programs > DB2 Alphablox > <InstanceName> > Startup DB2 Alphablox**.
- To access the DB2 Alphablox home page, enter the following URL in a browser window:  

```
http://<serverName>/AlphabloxAdmin/home/
```

 where <serverName> represents the name of the server and port number on which DB2 Alphablox runs.
- Contact DB2 Alphablox Customer Support if you need further assistance.

---

## Uninstalling from Windows

To uninstall DB2 Alphablox, perform the following steps:

1. Shut down DB2 Alphablox, if it is running.
2. Open the Windows Control Panel from the Windows **Start, Settings, Control Panel** shortcut.
3. Double click the **Add/Remove Programs** control panel document.
4. Under the **Install/Uninstall** tab, select DB2 Alphablox and click the **Add/Remove** button.
5. Press the **Yes** button to confirm that you want to uninstall DB2 Alphablox.
6. Click the **OK** button to close the **Add/Remove Programs** control panel document.
7. Delete the <db2alphablox\_dir> directory (the directory in which Alphablox was installed) from the drive in which it was installed.

**Note:** If DB2 Alphablox was running as a service during the uninstallation process, the DB2 Alphablox service is not completely removed from the services list until you reboot the computer.

---

## Uninstalling from Linux and UNIX Systems

Perform the following to uninstall DB2 Alphablox on a Linux or UNIX system:

1. Open a Linux or UNIX shell as a user who has permissions on everything in the directory in which DB2 Alphablox is installed.
2. In a Linux or UNIX command window, navigate to the parent directory in which DB2 Alphablox is installed.
3. Backup any applications you want to save.
4. If you have saved anything you want to keep in the <db2alphablox\_dir>/repository directory, back up the repository directory.
5. Run the following command to uninstall DB2 Alphablox:  

```
<db2alphablox_dir>/UninstallerData/Uninstall_IBM_DB2_Alphablox
```
6. Enter the following command to remove the DB2 Alphablox installation:  

```
rm -rf <directory_name>
```

If the directory is too large, you may have to first delete individual directories below the DB2 Alphablox directory.

**Important:** This permanently removes the DB2 Alphablox installation, potentially including any DB2 Alphablox applications you have created; you must reinstall DB2 Alphablox in order to use it again.



---

## Loading the Sample Data

DB2 Alphablox ships with data to load a sample database for a fictitious company named the Quality Chocolate Company (QCC). The Blox Sampler, a set of examples available from the Assembly tab of the DB2 Alphablox home page, uses the QCC data. There are versions of the QCC data available for many different database platforms, both multidimensional and relational.

The QCC data is available on the DB2 Alphablox CD-ROM. For instructions on loading the QCC data on your database, see the following file:

<CD-ROM\_dir>/sampledata/readme.txt



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