

# Ariba Analysis Installation Guide

**Version 3.0**  
**May 2004**



Copyright © 1996-2004 Ariba, Inc.

Ariba and the Ariba logo are registered trademarks of Ariba, Inc. Ariba Spend Management, Ariba Analysis, Ariba Buyer, Ariba Category Management, Ariba Contracts, Ariba Travel & Expense, Ariba Workforce, Ariba Invoice, Ariba eForms, Ariba Enterprise Sourcing, Ariba Category Procurement, Ariba Contract Workbench, Ariba Settlement, Ariba Supplier Network, BPM Services, Power Sourcing, Total Spend Capture and PO-Flip are trademarks or service marks of Ariba, Inc. All other trademarks are property of their respective owners.

CONTAINS IBM Runtime Environment for AIX (R), Java (TM) 2 Technology Edition Runtime Modules

(c) Copyright IBM Corporation 1999, 2000

All Rights Reserved

Some versions of this product include software licensed from International Business Machines Corp. Such software is protected by copyright as provided in the proprietary notices included with the software.

Some versions of this product include software licensed from BEA Systems, Inc. Such software is protected by copyright as provided in the proprietary notices included with the software.



All other brand or product names may be trademarks or registered trademarks of their respective companies or organizations.

ALL LICENSES OF Ariba SOFTWARE PROGRAMS AND RELATED DOCUMENTATION ("PROGRAMS") ARE SUBJECT TO ANY EXPORT LAWS, REGULATIONS ORDERS OR OTHER RESTRICTIONS IMPOSED BY THE UNITED STATES OF AMERICA OR BY ANY OTHER GOVERNMENT ENTITY ON THE PROGRAMS OR INFORMATION RELATING THERETO. A LICENSEE OF ANY PROGRAM WILL NOT IMPORT, EXPORT, OR ALLOW THE EXPORT OR REEXPORT, DIRECTLY OR INDIRECTLY, OF THE PROGRAM (OR TECHNICAL DATA OR OTHER INFORMATION RELATED THERETO) OR ANY DIRECT PRODUCT THEREOF, TO ANY COUNTRY TO WHICH SUCH IMPORT, EXPORT, OR REEXPORT IS RESTRICTED OR PROHIBITED, OR AS TO WHICH SUCH GOVERNMENT OR ANY AGENCY THEREOF REQUIRES ANY EXPORT LICENSE OR OTHER GOVERNMENTAL APPROVAL AT THE TIME OF IMPORT, EXPORT OR REEXPORT, WITHOUT FIRST OBTAINING SUCH APPROVAL.

#### THIRD PARTY SOFTWARE

See this URL for a complete list of third-party software copyright information: <http://www.ariba.com/copyrights>

---

# Table of Contents

<b>Preface</b> .....	<b>vii</b>
Audience and Prerequisites .....	vii
Ariba Analysis Documentation .....	viii
 <b>Chapter 1</b>	
<b>Overview of Ariba Analysis Installation</b> .....	<b>11</b>
Ariba Analysis Basics .....	11
Deployment Considerations .....	12
Architectural Tiers .....	13
Choosing a Database: Performance .....	13
Configurations in Development .....	14
Configurations in Production .....	16
Integrating Ariba Analysis with ASM Applications .....	17
General Steps for Installing .....	17
 <b>Chapter 2</b>	
<b>Pre-installation Planning and Set-up</b> .....	<b>19</b>
Download Ariba Analysis from Connect .....	19
Install Operating System Patches .....	20
Install Web Server .....	20
Install Database .....	20
Database Patches .....	21
JDBC Driver .....	21
Database Connection Details .....	21
DB2 Considerations .....	21
Oracle Considerations .....	22
Microsoft SQL Server Considerations .....	23
Install J2EE Application Server .....	23

<b>Chapter 3</b>	
<b>Installing and Configuring Ariba Analysis . . . . .</b>	<b>25</b>
About Installing on Microsoft Windows. . . . .	25
Installing Ariba Analysis . . . . .	26
Configuring Ariba Analysis . . . . .	43
Reinstalling Ariba Analysis . . . . .	61
Rerunning configure . . . . .	61
Troubleshooting the Installation . . . . .	61
Insufficient Temporary Space . . . . .	62
Logging Installation Program Activity . . . . .	62
 <b>Chapter 4</b>	
<b>Initializing the Ariba Analysis Database. . . . .</b>	<b>65</b>
Recommendations for Specific Databases . . . . .	65
Install JDBC Driver . . . . .	67
Initialize Ariba Analysis Database . . . . .	68
Possible Problems during Database Initialization . . . . .	68
Benign deadlock error from initdb . . . . .	68
DB2, Query too long or complex loading from Ariba Buyer . . .	69
ORA-04020, Object locking problem with initdb. . . . .	70
ORA-1450, Maximum key length exceeded . . . . .	70
 <b>Chapter 5</b>	
<b>Post-installation Tasks . . . . .</b>	<b>71</b>
Configuring Application and Web Servers . . . . .	71
Disabling the WebSphere JIT . . . . .	71
Verify the Analysis Installation. . . . .	72
Installing Ariba Analysis as a Windows Service . . . . .	73
. . . . . Important Administrative Tasks	73
 <b>Appendix A</b>	
<b>serviceinstall . . . . .</b>	<b>75</b>
Syntax . . . . .	75
Options . . . . .	75
Examples. . . . .	77
WebSphere. . . . .	77
Weblogic . . . . .	78

**Appendix B**

**Silent Installation . . . . . 79**

    Understanding Silent Mode . . . . . 79

        SP File Format . . . . . 80

        An Example Install.sp File . . . . . 80

    Installation Program in Silent Mode . . . . . 80

        About install.sp . . . . . 81

        Running the Installation Program in Silent Mode . . . . . 82

        Configuring an Application Server in Silent Mode . . . . . 83

        Configuring Ariba Analysis in Silent Mode . . . . . 83

        The Uninstall Program in Silent Mode . . . . . 83

**Index . . . . . 85**



---

# Preface

The *Ariba Analysis Installation Guide* details how to install Ariba Analysis on the following operating systems:

- Microsoft Windows NT or Windows 2000
- Sun Solaris
- HP-UX
- IBM AIX

## Audience and Prerequisites

---

This document's intended audience is anyone responsible for installing Ariba Analysis on the Microsoft Windows NT or Windows 2000, Sun Solaris, HP-UX, and IBM AIX operating systems.

The document assumes that you are most likely the same person who installed Ariba Buyer, or at least are familiar with or be able to confer with those who installed Ariba Buyer.

You should be familiar with how to install software on the pertinent operating system and with the system administration of that operating system. In addition you should have an understanding of the administration of web servers, application servers, and databases.

# Ariba Analysis Documentation

---

The Ariba Analysis documentation set contains the following books.

<b>Title</b>	<b>Audience</b>	<b>Purpose and contents</b>
<i>Ariba Analysis Installation Guide</i>	System and database administrators	<b>Planning and installing Ariba Analysis</b> <ul style="list-style-type: none"> <li>Architectural overview, software components, deployment configurations</li> <li>Step-by-step installation</li> </ul>
<i>Ariba Analysis Configuration Guide</i>	System and database administrators	<b>Configuring and administering Ariba Analysis</b> <ul style="list-style-type: none"> <li>Configuration files, command reference, parameters, administration console</li> <li>System security</li> <li>Managing users and reports</li> </ul>
<i>Ariba Analysis Customization Guide</i>	Systems integrators and data warehouse designers	<b>Customizing Ariba Analysis</b> <ul style="list-style-type: none"> <li>Design goals, methodologies, and best practices</li> <li>Working with and extending the data model. Adding facts, measures, dimensions, and materialized views.</li> <li>Controlling data visibility</li> <li>Tailoring the user interface</li> </ul>
<i>Ariba Analysis Data Load Guide</i>	Data warehouse designers and database administrators	<b>Loading data from Ariba applications and external systems into Ariba Analysis</b> <ul style="list-style-type: none"> <li>Configuration files</li> <li>Data-loading metadata XML</li> <li>command reference</li> </ul>
<i>Ariba Analysis Advanced User Guide</i>	Procurement and sourcing business analysts, systems integrators	<b>Setting-up Ariba Analysis for daily use</b> <ul style="list-style-type: none"> <li>Ariba Analysis prepackaged report models</li> <li>Designing compound reports, multi-source reports, and template dashboards by role</li> <li>Customizing Microsoft Excel templates for use with Ariba Analysis</li> <li>Overview to Ariba integrated Supplier Performance Management</li> </ul>







---

## Chapter 1

# Overview of Ariba Analysis Installation

This chapter describes Ariba Analysis in general and gives an overview of how to install it. The following topics are addressed:

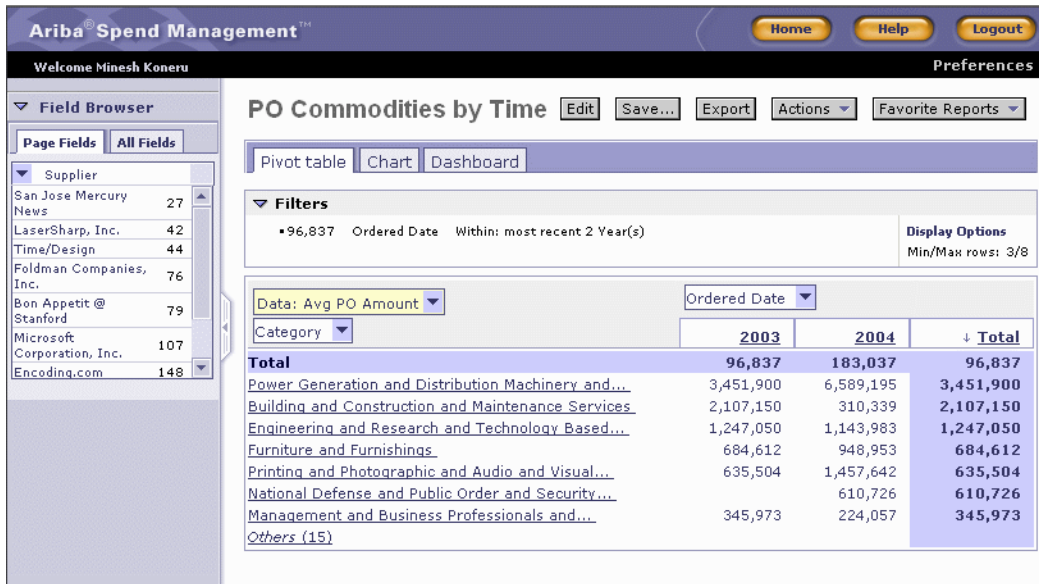
- “[Ariba Analysis Basics](#)” on page 11
- “[Deployment Considerations](#)” on page 12
- “[Integrating Ariba Analysis with ASM Applications](#)” on page 17
- “[General Steps for Installing](#)” on page 17

## Ariba Analysis Basics

---

Ariba Analysis gives you the power to base buying decisions on your own intelligent, self-customized analyses of data from other Ariba products and Enterprise Resource Planning (ERP) systems. The goal of Ariba Analysis is to improve your ability to see spending and other business patterns to identify opportunities to decrease costs. It is also a tool for examining purchasing processes themselves for possible areas of improvement to save money.

If you are a manager or business analyst, you use Ariba Analysis facts to create analytical reports and graphs, such as pie charts, bar charts, and pivot tables, with which you can investigate business patterns.



You can manipulate your reports in many ways to reveal or hide data or view it at different levels. You can export data to spreadsheet programs, save reports on a *dashboard* for instant viewing, share them with other users, and much more.

## Deployment Considerations

After installation, Ariba Analysis is ready for use by data warehouse designers to start designing analyses for their end-users.

How your company chooses to deploy Ariba Analysis depends on your needs. Exact hardware and network configurations depend on many factors: the extent that security must be balanced by ease and speed of development is entirely up to you.

See the *Ariba Spend Management Integration Guide* for other deployment considerations.

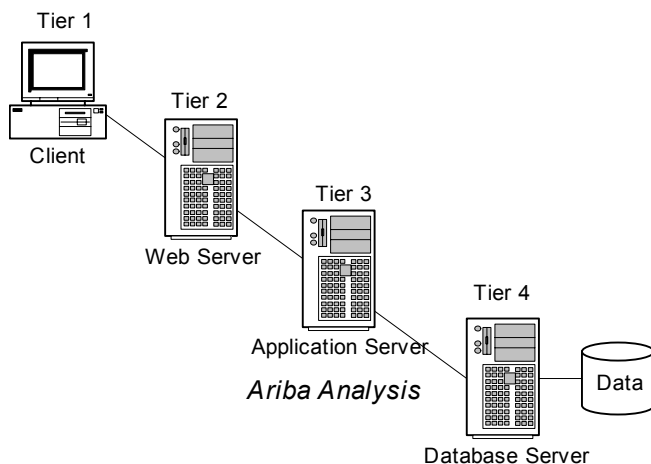
Ariba Analysis can be deployed in a manner similar to how Ariba Buyer is deployed. You might wish to refer to the planning sections in the configuration guides for Ariba Buyer to help determine your desired configuration.

This section includes the following topics:

- “**Architectural Tiers**” on page 13
- “**Choosing a Database: Performance**” on page 13
- “**Configurations in Development**” on page 14
- “**Configurations in Production**” on page 16

## Architectural Tiers

Ariba Analysis has several architectural tiers, as depicted in the following drawing.



The Client tier consists of end-user browsers and spreadsheet programs.

You can combine the Web Server tier, Application Server, and Database tiers onto a single set of hardware or distribute them across a network depending on your needs. However, you must install Ariba Analysis on the same hardware as the J2EE application server.

## Choosing a Database: Performance

As on On Line Analytical Processing (OLAP) application, Ariba Analysis performance is best if its database supports OLAP features to the fullest extent.

One key OLAP performance feature is *materialized views*, which are pre-aggregated data sets stored directly in the database for fast access from hierarchies to individual transaction data. Materialized views give the best performance for OLAP applications. Related key OLAP features are bitmap indexes and dimension and hierarchy metadata.

In selecting a database for use with Ariba Analysis, consider the performance implications of a database system that does not support this key OLAP features. Although a database without these features is less costly to purchase, it is more costly in performance and user wait time.

- For Oracle Enterprise Edition, Ariba Analysis creates materialized views based on the levels of dimensions specified in your metadata XML and includes the look-up keys for those levels in the materialized view. Therefore, all levels above that level in any hierarchy most likely benefit from the materialized view.
- For Oracle Standard Edition and Microsoft SQL Server, Ariba Analysis completely ignores materialized view definitions in the metadata XML: no materialized views or summary tables are created.
- For IBM DB2 (both Workgroup and Enterprise editions), Ariba Analysis looks at the hierarchies that include the levels specified in the materialized view metadata XML. Ariba Analysis includes the top levels of these hierarchies in a summary table. Therefore, only queries at the top levels of the hierarchies are likely to benefit with DB2.

## Configurations in Development

The simplest hardware configuration for use during development or customization of Ariba Analysis is to have all four tiers on a single machine. This configuration is suitable for rapid prototyping by a single person or a small group of people.

If your development team is large or is geographically distributed, a single machine might not be suitable.

## Considerations for Multiple Instances of Ariba Analysis

The following considerations apply to development environments in which you intend to run multiple copies of Ariba Analysis with BEA WebLogic on a single server or multiple Ariba applications on a single server.

Running multiple instances concurrently is supported if you have sufficient CPU and memory. In addition, Ariba strongly recommends that you run the database system on a separate physical server from Ariba Analysis because performance impact is greatest on the database.

You need to install a separate WebLogic application server for each instance of Ariba Analysis you are going to install on the same machine. In addition, you must use different port number for each WebLogic instance and each Ariba Analysis instance.

You can use the same WebLogic Admin Domain Name for your multiple WebLogic instances. The server name must be the same because you are installing the multiple WebLogic instances on the same machine. However, you must specify different port numbers for each instance of WebLogic to avoid port conflicts.

## Configurations in Production

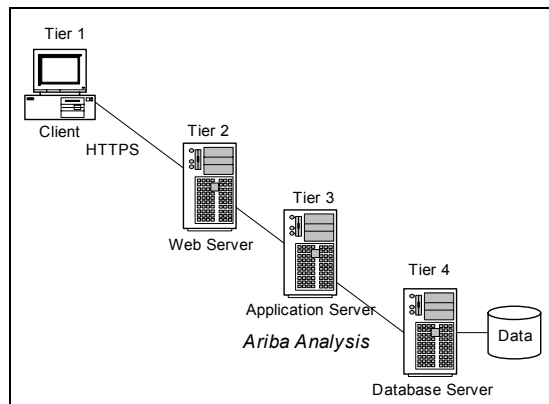
There are two major concerns in deploying Ariba Analysis in production:

- **Security**
- **Hardware Sizing for Capacity**

The following sections discuss each of these.

### Security

The main security concern in production is to protect the HTTP traffic between Tiers 1 and 2 with Secure Sockets Layer/Transport Layer Security (SSL/TLS). Achieving this goal depends on your company policies about firewalls in your network architecture. One possible deployment is shown below.



### Hardware Sizing for Capacity

Database disk sizing depends on the size of your data. One rule of thumb is as follows:

1 million purchase order lines = 1GB of disk



## Integrating Ariba Analysis with ASM Applications

---

For details about integrating Ariba Analysis with other Ariba Spend Management applications, see the *Ariba Spend Management Integration Guide*. Information includes the following:

- Integrating Ariba Analysis in conventional, standard configurations.
- Using the `configureasm` program to configure all ASM applications at a single time.
- Single sign-on.
- The Spend Management Dashboard.

You should also obtain a copy of the *Ariba Spend Management Application and Web Server Guide*.

The latest versions of both guides are on Connect:

<https://Connect.ariba.com/>

## General Steps for Installing

---

The general steps to install and configure Ariba Analysis 3.0 are as follows:

- 1 **Pre-installation Planning and Set-up**
  - Download Ariba Analysis from Connect
  - Install Web Server
  - Install Database
  - Install J2EE Application Server
- 2 **Installing and Configuring Ariba Analysis**
- 3 **Initializing the Ariba Analysis Database**
- 4 **Post-installation Tasks**
  - Configuring Application and Web Servers
  - Verify the Analysis Installation
  - Important Administrative Tasks



---

## Chapter 2

# Pre-installation Planning and Set-up

This chapter describes the prerequisites for installing Ariba Analysis: the software that must be ready for use prior to installing Ariba Analysis itself.

The general outline of this chapter is as follows.

- “[Download Ariba Analysis from Connect](#)” on page 19
- “[Install Operating System Patches](#)” on page 20
- “[Install Web Server](#)” on page 20
- “[Install Database](#)” on page 20
- “[Install J2EE Application Server](#)” on page 23

---

## Download Ariba Analysis from Connect


Use the Ariba Connect site at <https://connect.Ariba.com> to download Ariba Analysis. After you login, choose **Software Download**, and select **Ariba Analysis**:

### Software Online

#### Download Software

Ariba product releases and patches are now available for download via this web site. This replaces the former method of requesting ftp access online and then separately connecting to the <ftp.ariba.com> site to download software. Please select the appropriate product line, version and operating system below.

*Note: The product(s) available in the dropdown list on this form are based on the software licenses your company has purchased. To review your company's Product Distribution entitlements, please refer to your [Company Profile](#).*

Product Line*	<input type="text" value="Ariba Analysis"/>	 <a href="#">Help</a>
Version*	<input type="text" value="3.0"/>	
Operating System*	<input type="radio"/> Windows <input checked="" type="radio"/> Unix	
<input type="button" value="Submit"/> <input type="button" value="Clear"/>		

## Install Operating System Patches

---

Before installing Ariba Analysis, you should ensure that the operating system is at the latest patch level. The operating system patches required to run Ariba Analysis are identical to those required to run Ariba Buyer.

Ariba generally requires a set of OS patches for your IBM AIX, HP-UX, Sun Solaris, or Microsoft Windows system. It is essential that you have all appropriate OS patches installed. The specific patches required depend on the JRE and operating system version you are using.

For a list of the patches Ariba requires and links for downloading them, go to the Ariba Technical Support Web site at <https://connect.ariba.com> and navigate to Product Info > Procurement Solution > Analysis > Platforms.

## Install Web Server

---

This guide assumes you have already installed one of the supported web servers or have a web server instance or instances earmarked for use with Ariba Analysis.

If you do not yet have such a web server installed, install one before proceeding.

## Install Database

---

See “**Choosing a Database: Performance**” on page 13 for a general discussion of database systems and OLAP performance.

This guide assumes you already have a database installation ready for use with Ariba Analysis and that this installation has accounts and privileges necessary for creating new tablespaces. If not, install a database tablespace and accounts before proceeding. Make note of the following topics in this section:

- **Database Connection Details**
- **Oracle Considerations**
- **Oracle Database Privileges**
- **Database Block Size**

## Database Patches

Make sure you obtain and install the latest patches for your chosen database software. For example, there are many critical patches needed for Oracle 9.2.

## JDBC Driver

You might now want to acquire the appropriate Java Database Connection (JDBC) driver for your chosen database. You can install it either before or after you install Ariba Analysis. See “[Install JDBC Driver](#)” on page 67 for precise details.

## Database Connection Details

You must know the following details to configure Ariba Analysis in the section “[Configuring Ariba Analysis](#)” on page 43:

- Database server host name
- Database username and password
- Network connection details: either the Oracle host and SID, the IBM DB2 host and database name, or the Microsoft SQL Server host and database name.

The database initialization command `initdb` requires a database client. Make sure you know the location of the appropriate command on your local system or have its location specified in your PATH environment variable:

Database	Command	Notes
DB2	db2batch	At least the runtime client <b>must</b> be installed on the system where you intend to run Ariba Analysis.
Oracle	sqlplus	

## DB2 Considerations

This section addresses considerations if you are using IBM DB2.

### Tablespace and Bufferpool Size

If using UTF8 with DB2, be sure setup a 32K tablespace and bufferpool.

## Oracle Considerations

This section addresses considerations if you are using Oracle:

- “Database Type” on page 22
- “Optimization and Partitioning” on page 22
- “Oracle Database Privileges” on page 22
- “Database Block Size” on page 23

### Database Type

Oracle’s configuration assistant allows you to choose from three types of databases: Transaction, OLAP, and Mixed.

Your choice determines which of Oracle’s features get installed, not the physical layout of the database or other architectural concerns. Ariba recommends that you use the Mixed type initially. Ultimately, based on your analysis of database performance, you may need to use Oracle tuning parameters if you determine that database performance is a bottleneck.

### Optimization and Partitioning

Ariba recommends that you use COST-based optimization for your Oracle database associated with Ariba Analysis.

Ariba Analysis database objects are not partitioned in anyway by default. If you want to partition your objects to specific tablespaces for performance, after Ariba Analysis has been installed you can use the `datafile` attribute on the metadata XML elements `<fact>`, `<dimension>`, or `<materializedView>`. See the *Ariba Analysis Customization Guide*.

### Oracle Database Privileges

You must configure your Oracle database account with the following privileges required by Ariba Analysis. No special privileges are required for IBM DB2.

Refer to the *Ariba Buyer Database Configuration Guide* for more specific details.

- 1 CREATE TABLE
- 2 CREATE VIEW
- 3 CREATE ANY INDEX

- 4 CREATE SESSION
- 5 CREATE CLUSTER
- 6 CREATE DIMENSION
- 7 CREATE SNAPSHOT
- 8 QUERY REWRITE

**Database Block Size**

Your Oracle database should be configured to use the largest block size allowed by your operating system. This configuration is to ensure maximum performance, such that data are retrieved from the database in the most efficient manner.

**Microsoft SQL Server Considerations**

No special set-up is required to use Microsoft SQL Server 2000 with Ariba Analysis. For information about configuring Microsoft SQL Server, see the *Ariba Buyer Database Configuration Guide*.

**Install J2EE Application Server**

---

Before installing Ariba Analysis, you must install the J2EE application server you intend to use with it and ensure that it starts properly. The Ariba Analysis installation programs configures your application server to run Ariba Analysis

Application Server	Notes
BEA WebLogic Server	BEA WebLogic8.1SP2
IBM WebSphere Application Server	5.1

For some important information about installing multiple instances of Ariba Analysis on a single server running WebLogic in development (or multiple Ariba applications), see “[Considerations for Multiple Instances of Ariba Analysis](#)” on page 14.





---

## Chapter 3

# Installing and Configuring Ariba Analysis

This chapter describes how to run the Ariba Analysis installation and configuration programs.

**Note:** The walkthrough and screen snapshots in this chapter show an installation of Ariba Analysis on Microsoft Windows. If you are installing on UNIX, substitute appropriate file path syntax. Any variations between Windows and UNIX are noted.

The information here is divided into the following sections:

- “[About Installing on Microsoft Windows](#)” on page 25
- “[Installing Ariba Analysis](#)” on page 26
- “[Configuring Ariba Analysis](#)” on page 43
- “[Reinstalling Ariba Analysis](#)” on page 61
- “[Troubleshooting the Installation](#)” on page 61

### No Multiple Concurrent Installations

**Warning:** Do not install more than a single Ariba application at a time.

---

## About Installing on Microsoft Windows

You can use the Microsoft Windows **Add/Remove Programs** to either install or uninstall Ariba Analysis. However, for uninstalling, only the most recently installed copy of Ariba Analysis can be removed. Older copies must be deleted with the `uninstall` program, as described on [page 61](#).

**Note:** You can configure Ariba Analysis as a Microsoft Windows service, after you initially install it. See “[Installing Ariba Analysis as a Windows Service](#)” on page 73.

---

## Installing Ariba Analysis

---

This section is a step-by-step walkthrough of installing Ariba Analysis interactively.

**Note:** Before you begin the installation, make sure you have at least 100MB of free temporary disk space, in /var/tmp on UNIX or C:\TEMP on Microsoft Windows (or the location pointed to by the TEMP environment variable). See “**Insufficient Temporary Space**” on page 62 for details about how to specify a directory or file system for temporary space.

### About Silent Installation

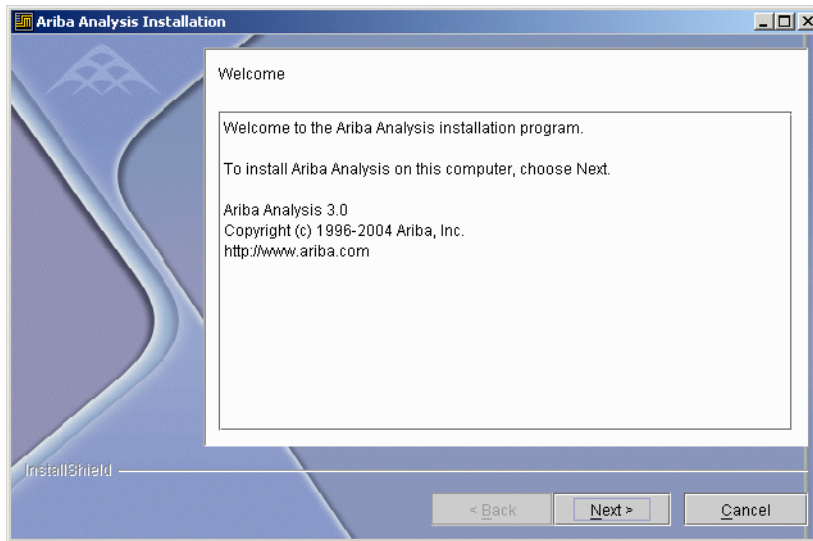
See Appendix B, “**Silent Installation**,” for details about how to install Ariba Analysis non-interactively, which is called *silent mode*.

#### ▼ To install Ariba Analysis interactively:

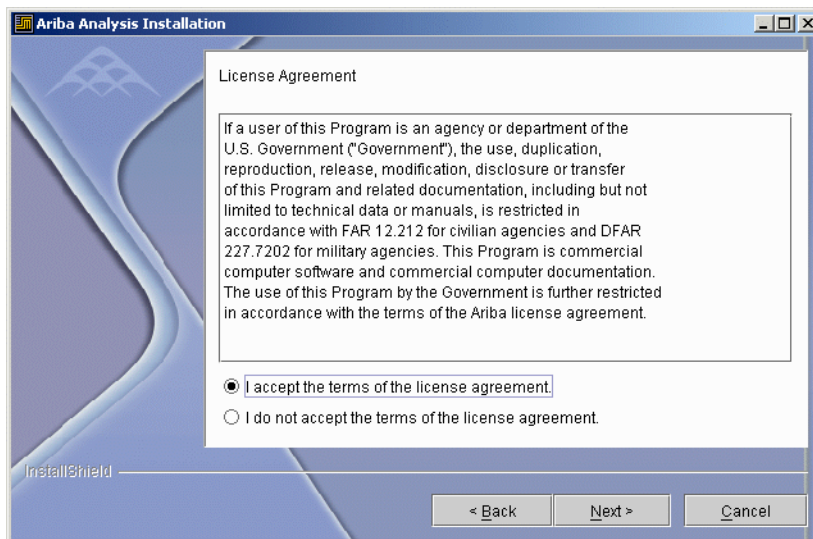
- 1 Locate the Ariba Analysis installation files you downloaded, as described in “**Download Ariba Analysis from Connect**” on page 19.
- 2 Start the installation program:

<b>Windows</b>	setup.exe
<b>Solaris</b>	setup.SunOS.bin
<b>HP-UX</b>	setup.HP-UX.bin
<b>IBM AIX</b>	setup.AIX.bin

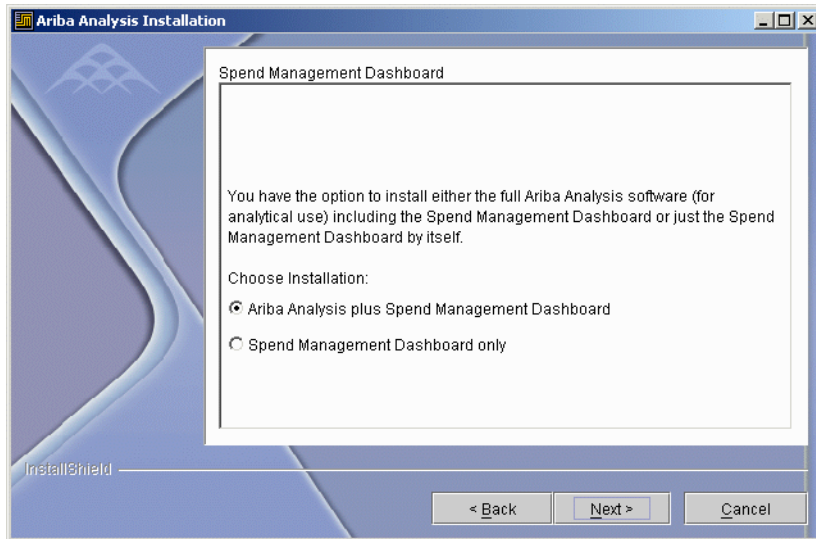
- 3 You see the installation program welcome screen.



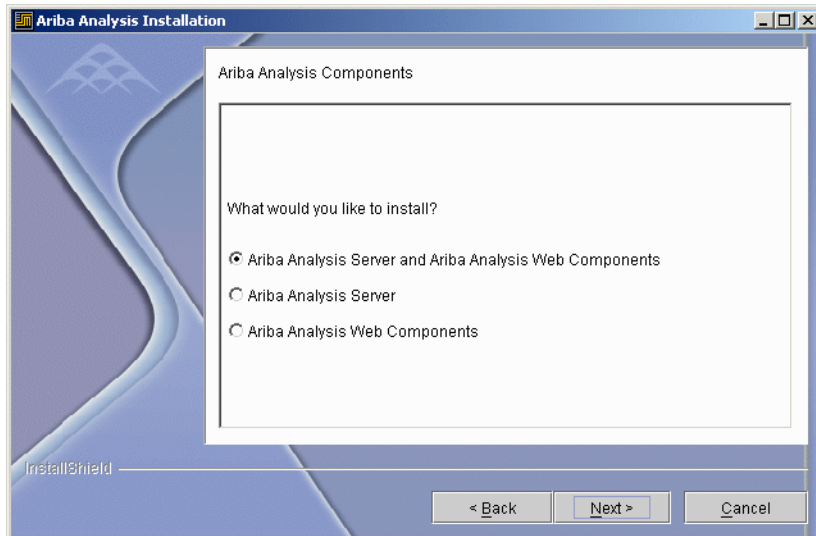
- 4 Accept the terms of the Ariba license agreement:



- 5 Decide to install either **Ariba Analysis plus the Spend Management Dashboard** or the Spend Management Dashboard only:



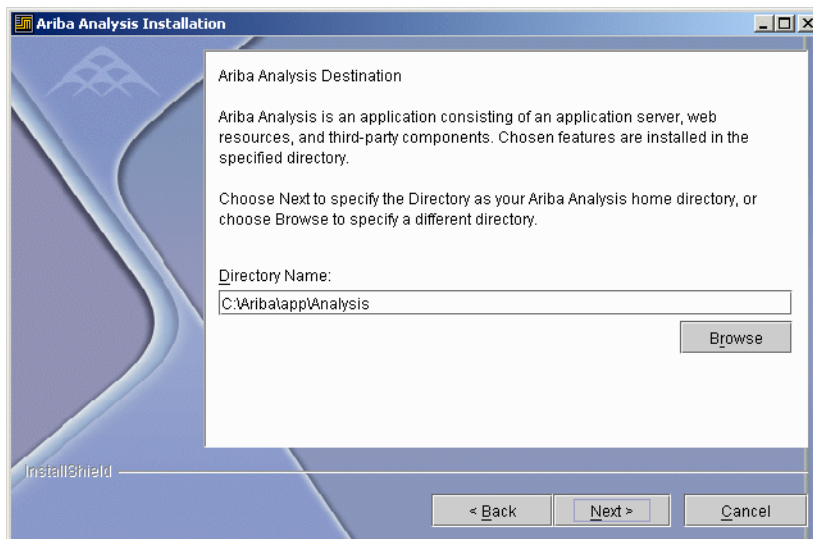
- 6 Select the Ariba Analysis components you want to install.



For first-time installation, you should accept the default: both Ariba Analysis Server and Ariba Analysis Web components.

Ariba Analysis Server components include the Analysis Java classes, XML configuration files, libraries, and supporting files. The Web Components are HTML and graphics.

- 7 Select the disk location for storing the Ariba Analysis software.

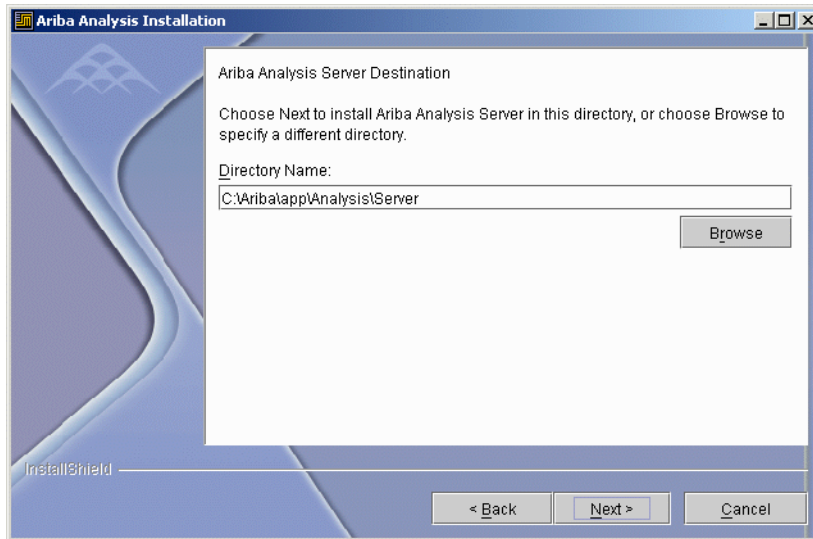


Throughout this guide, the directory you specify in this step is referred to as follows:

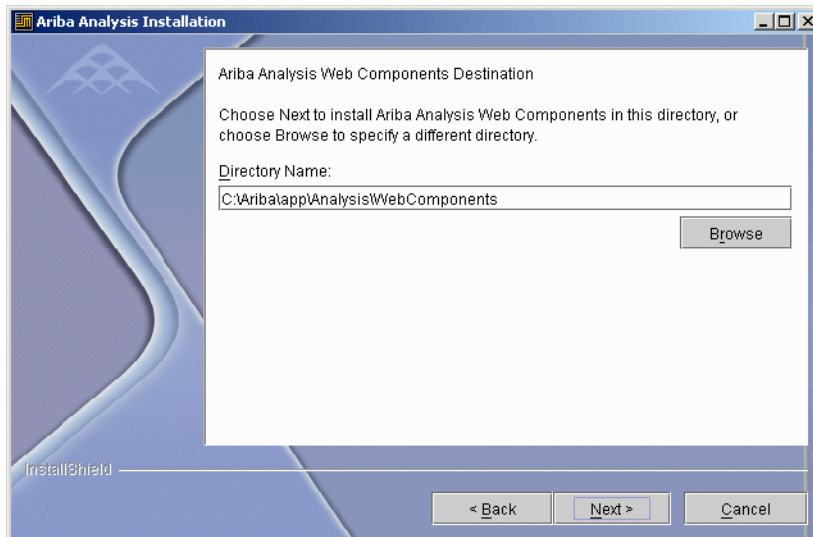
*AnalysisInstallRoot*

**Warning:** Do not install Ariba Analysis in a directory whose name begins with /ariba. Otherwise, web server proxying will fail.

- 8 Select the directory in which you want to store the Ariba Analysis server components.



- 9 Select the directory in which you want to store the Ariba Analysis Web components.



## 10 Specify an ASM configuration group name.



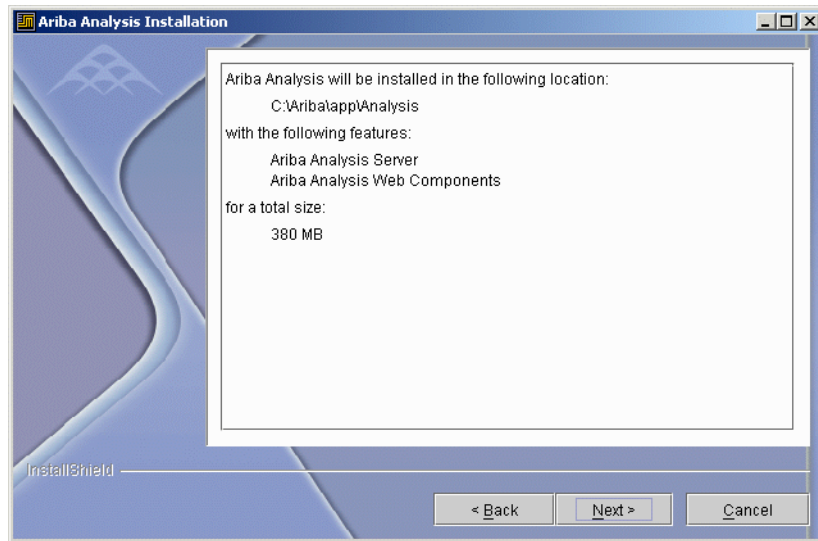
A *configuration group name* is a way for you to identify all instances of Ariba applications that are part of an integrated set of the applications. The configuration group name must be a single word of alphanumeric characters with no white space.

The configuration group name can be any arbitrary mnemonic you want, such as “Dev” for all applications that are part of your development environment, “Test” for your quality assurance purposes, or “Production” for the production instances. Another purpose for the configuration group name is that a single use of the `configureasm` program can configure or reconfigure all instances that are part of the same group.

**Note:** The None group indicates that you do not want to specify a configuration group name at this time. You can change the configuration group name later with the `editvtpd` command.

For more information about configuration group names, the `configureasm` command, and the `editvtpd` command, see the *Ariba Spend Management Integration Guide*.

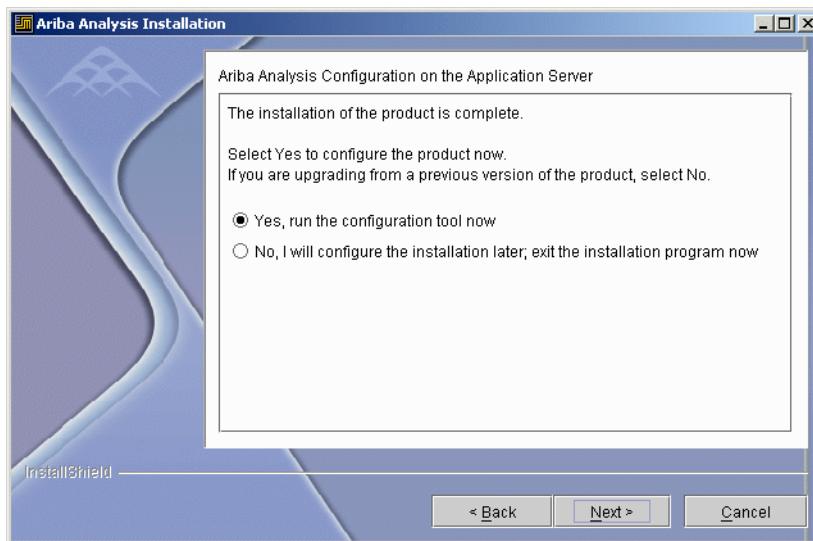
**11** Start the actual installation by clicking **Next**.



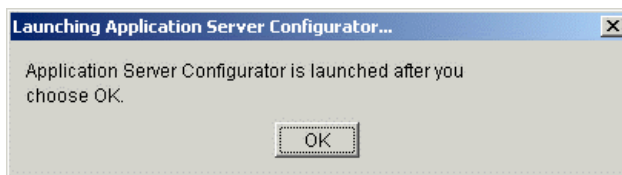
The length of time necessary to install the software depends on your system's speed. Allow at least five minutes for copying to complete.



- 12** When installation is complete, you are prompted to launch the configuration program. Click **Next**.



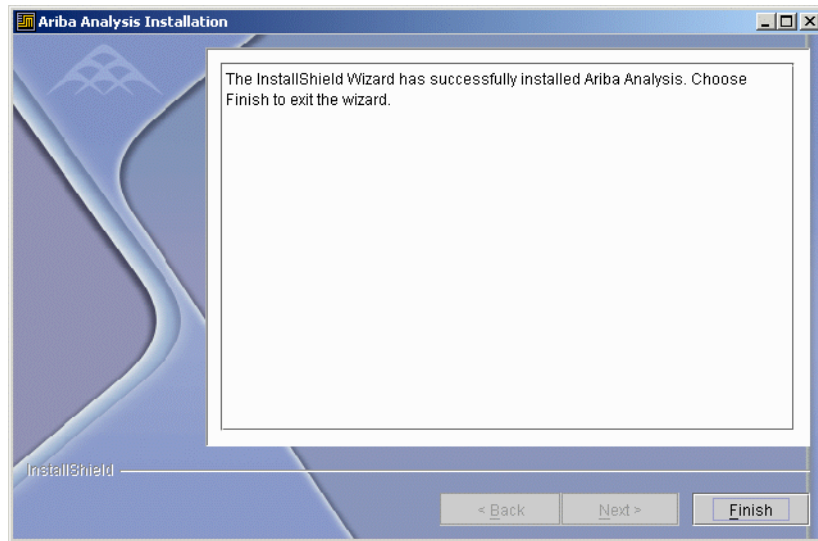
- 13** Click OK to the message that informs you that the application server configuration program will be run:



**Warning:** If you do not run the application server configuration program now, you must manually run the following program before continuing with configuration:

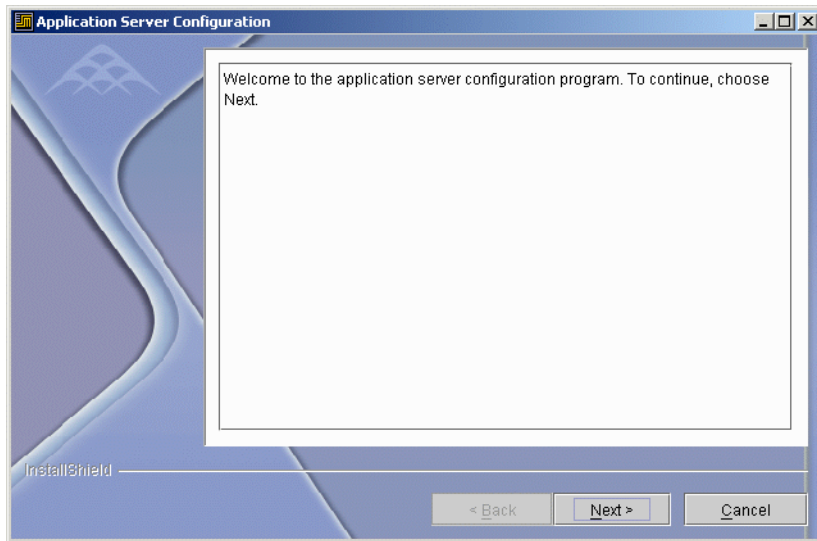
*AnalysisServerRoot/bin/configureappserver*

**14** Click **Finish** to exit the installation program.

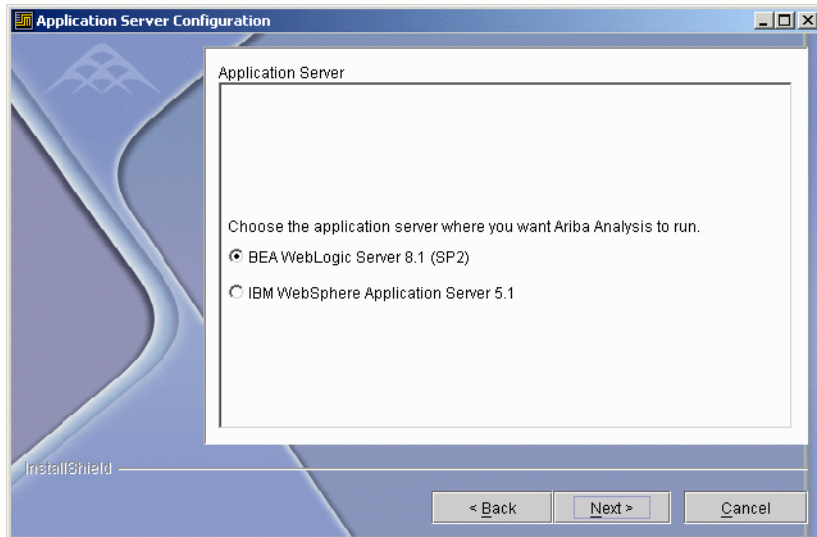


**Note:** You might need to move some panels to see the final screen.

- 15** Click **Next** at the application server configuration welcome screen.

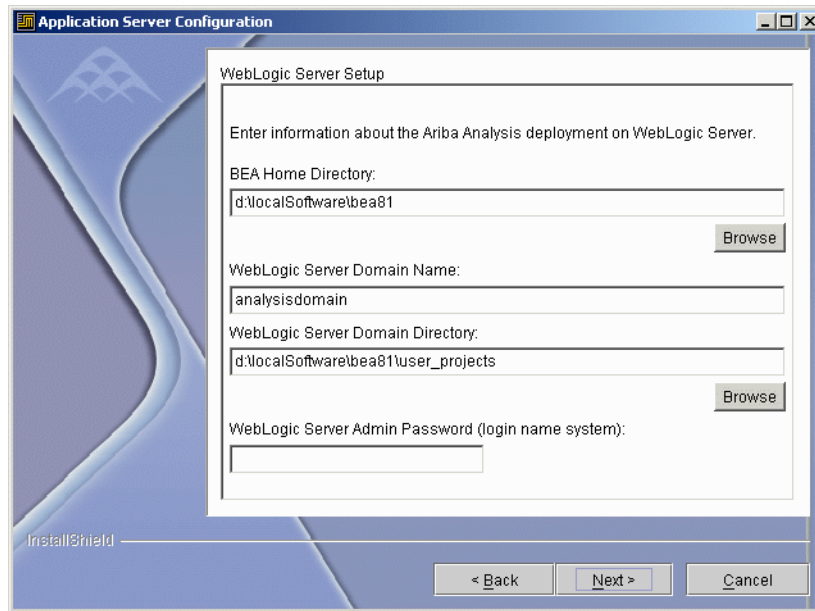


- 16** Select the J2EE application server you are using in conjunction with Ariba Analysis: either BEA WebLogic Server or IBM WebSphere Application Server.



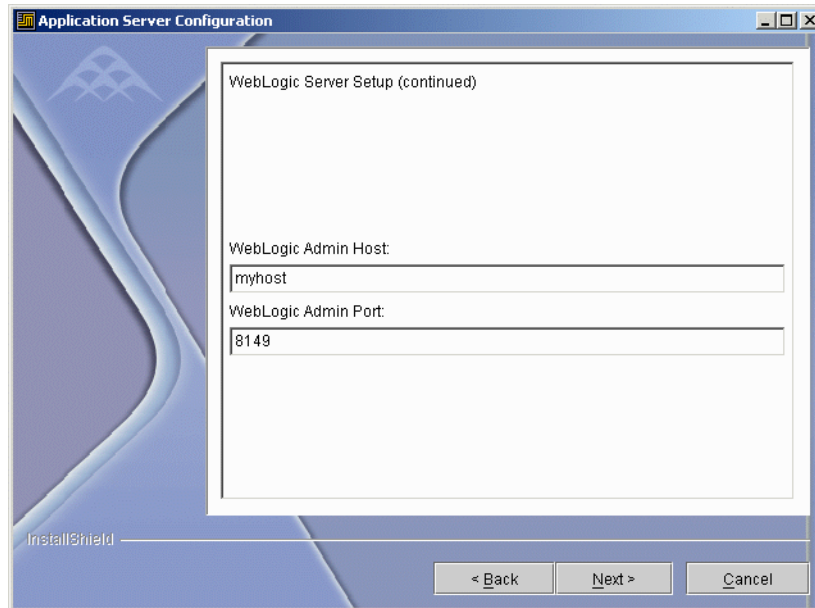
17 If you are using IBM WebSphere, go to [page 39](#).

If you are installing Ariba Analysis for use with BEA WebLogic Server, confirm the specifics of your WebLogic Server installation.



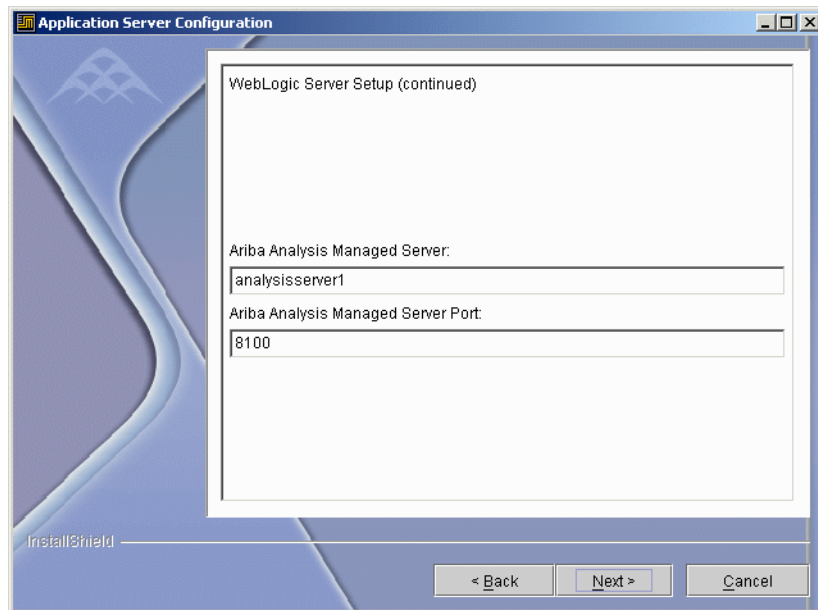
- a The WebLogic home directory should be the location of the BEA software.
- b Either accept the default for **WebLogic Server Domain Name** or specify a name you prefer. The installation program configures this domain in WebLogic for you.
- c Either accept the default for **WebLogic Server Domain Directory** or specify a directory you prefer. The installation program creates this directory for you.
- d The admin password should be what you specified during the installation of WebLogic.

- 18** Specify the host name and the port number for the WebLogic Server administration ports.



The Ariba Analysis installation program creates an administrative server that runs on the port you specify here. The default is port 8149, which Ariba recommends to avoid possible port conflicts among Ariba applications. You can, however, specify any port you like.

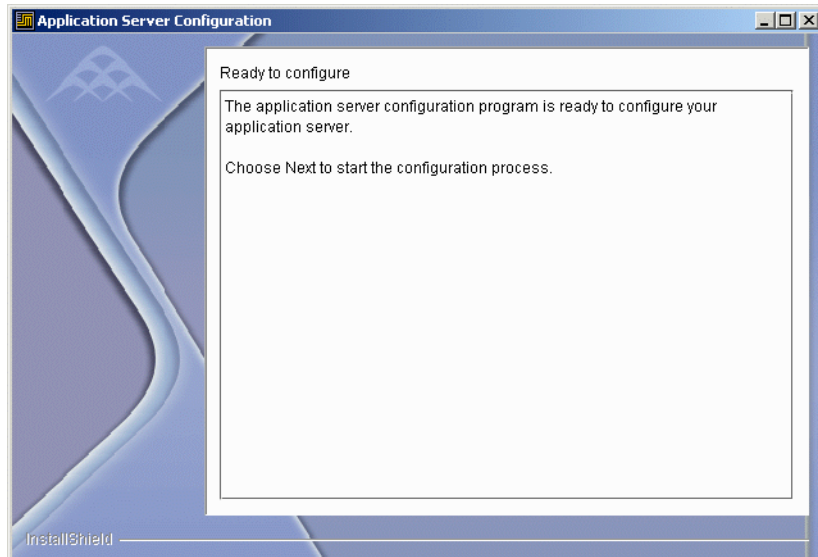
19 Specify the WebLogic managed server name and port number for Ariba Analysis.



- a Accept the default for **Ariba Analysis Managed Server**, or enter a name you prefer.
- b Specify a port. The default is port 8100, which Analysis recommends to avoid port conflicts among Ariba applications.

Now that you have entered details about your WebLogic configuration, go to [page 41](#).

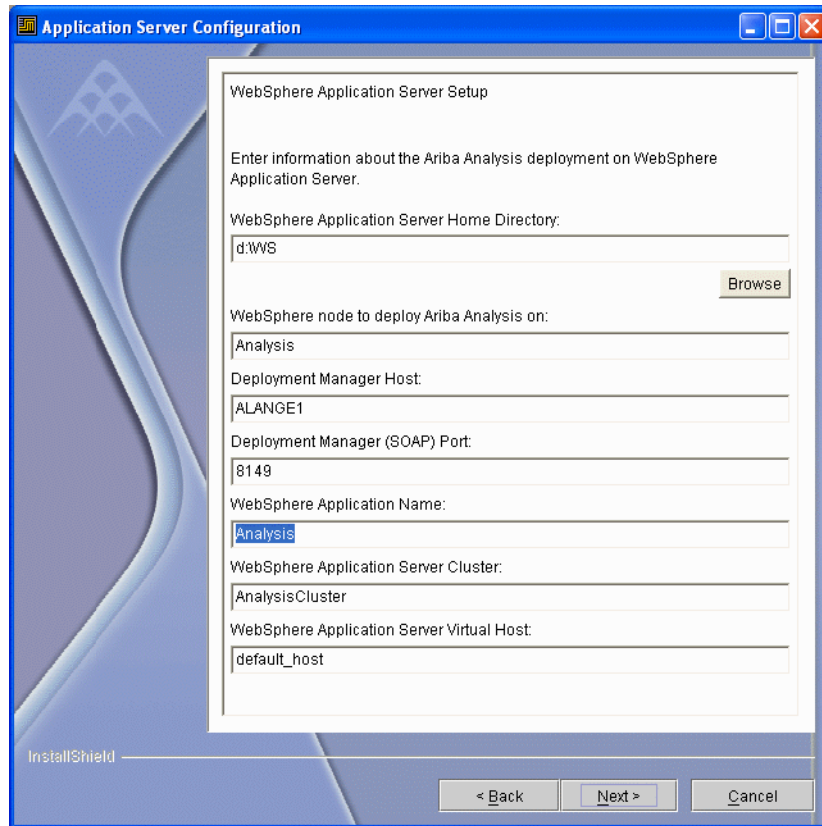
- 20** If you are installing Ariba Analysis for use with IBM WebSphere, confirm the specifics of your WebSphere installation.



- a** The WebSphere application server home directory should be the location of the IBM software.
- b** Either accept the default value for **WebSphere Application Name**, or enter a name you prefer. The installation program configures this in IBM WebSphere for you.

**21** Specify the WebSphere server details for Ariba Analysis.

**Note:** You need to expand this window or use the scrollbar to see all the information you must enter.



The screenshot shows a window titled "Application Server Configuration" with a blue border. Inside, there's a section titled "WebSphere Application Server Setup". Below this, it says "Enter information about the Ariba Analysis deployment on WebSphere Application Server." The fields are as follows:

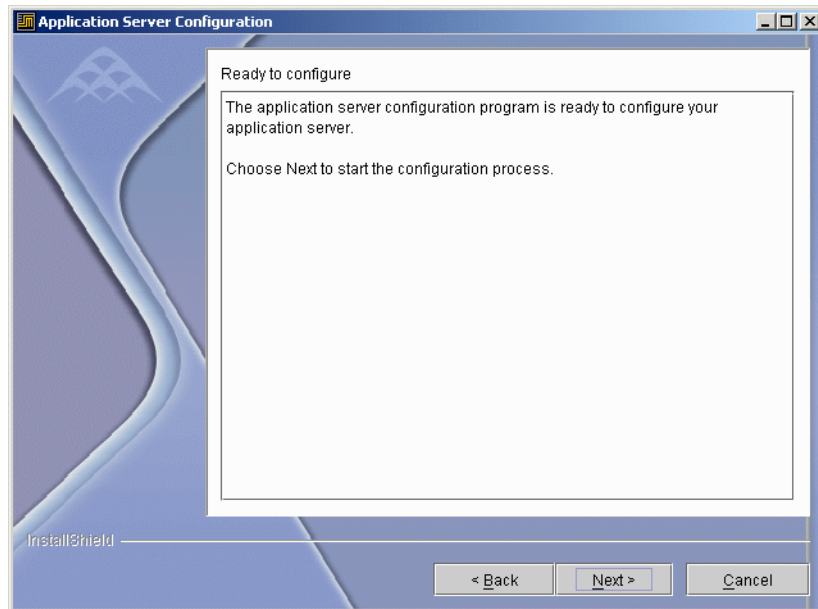
- WebSphere Application Server Home Directory: d:\WVS (with a "Browse" button to the right)
- WebSphere node to deploy Ariba Analysis on: Analysis
- Deployment Manager Host: ALANGE1
- Deployment Manager (SOAP) Port: 8149
- WebSphere Application Name: Analysis
- WebSphere Application Server Cluster: AnalysisCluster
- WebSphere Application Server Virtual Host: default\_host

At the bottom left, it says "InstallShield". At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

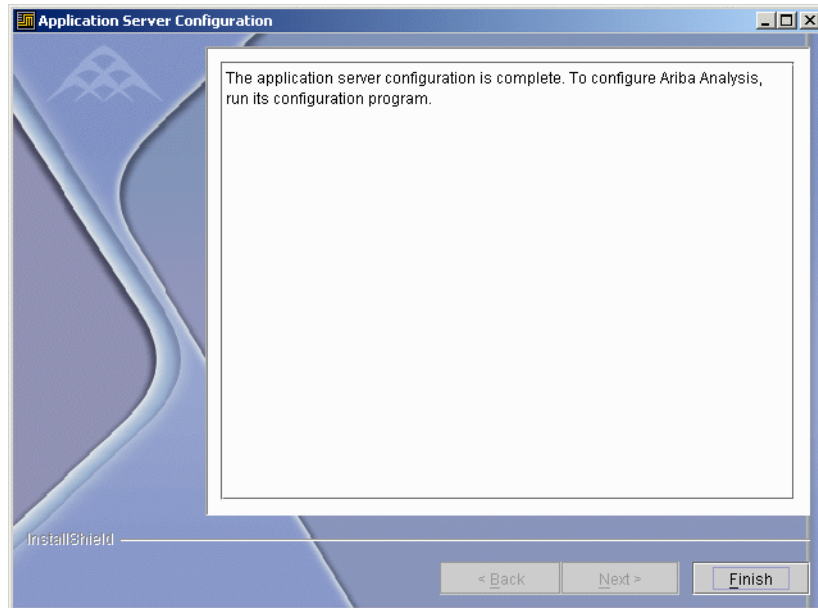
For information about these parameters, see the *Ariba Spend Management Application and Web Server Guide*.



**22** Start the application server configuration by clicking **Next**.



- 23** Complete the installation by clicking **Finish** on the installation program's last panel.



**Note:** You might need to move some panels that obscure the panel on your monitor.

Proceed with the next section to configure Ariba Analysis.

# Configuring Ariba Analysis

---

Ariba offers several tools for configuring an application. All tools are located in any application’s bin directory. Which tool you use depends on the complexity and nature of your configurations.

Tool	Description
configureasm	The configureasm program is suitable for quickly configuring and integrating all Ariba Spend Management applications with their demo configurations and application default settings.
configure	Each application’s configure program configures that single application, including allowing you to change its default settings.

These tools are not mutually exclusive. configureasm integrates all Ariba applications installed on the same computer. This could be a single application or multiple applications. For details about configureasm, see the *Ariba Spend Management Integration Guide*.

For information about configure, see the remainder of this guide.

The Ariba Analysis configure program establishes the following information:

- The user name, password, and network naming details (Oracle SID or DB2 database name) to connect to your database, as discussed in “**Install Database**” on page 20
- URLs for users to access Ariba Analysis. These URLs are as follows:
  - The name of the web server and port
  - A web server mapping to a directory on that web server. In the section “**Configuring Application and Web Servers**” on page 71, you create a web server document directory that corresponds to this URL.

You can rerun the configuration program at any time in the future, if you like. It is the program *AnalysisInstallRoot\Server\bin\configure*.

## Validating Database Connection during Configuration

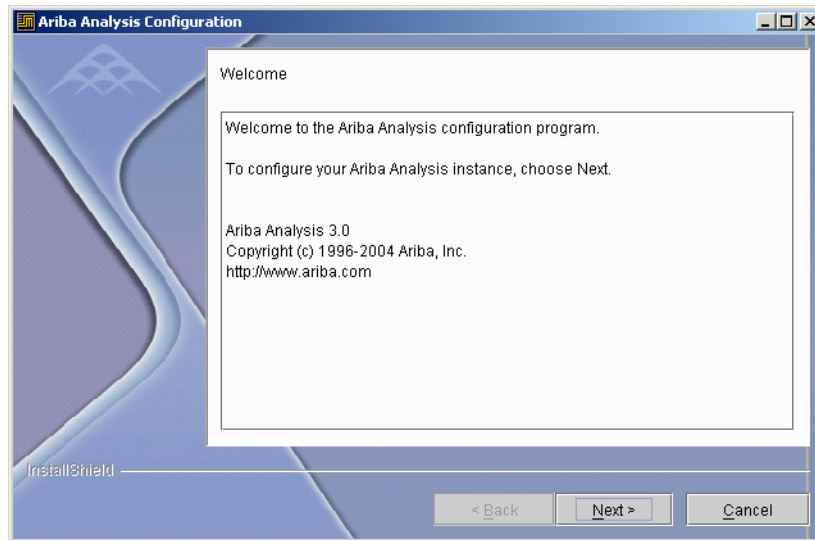
The configuration program allows you to test connectivity between Ariba Analysis and its database while you are configuring. However, for the validation to succeed you must install the appropriate JDBC driver during or after running the configuration program. See “**Install JDBC Driver**” on page 67 for details.

### ▼ To configure Ariba Analysis.

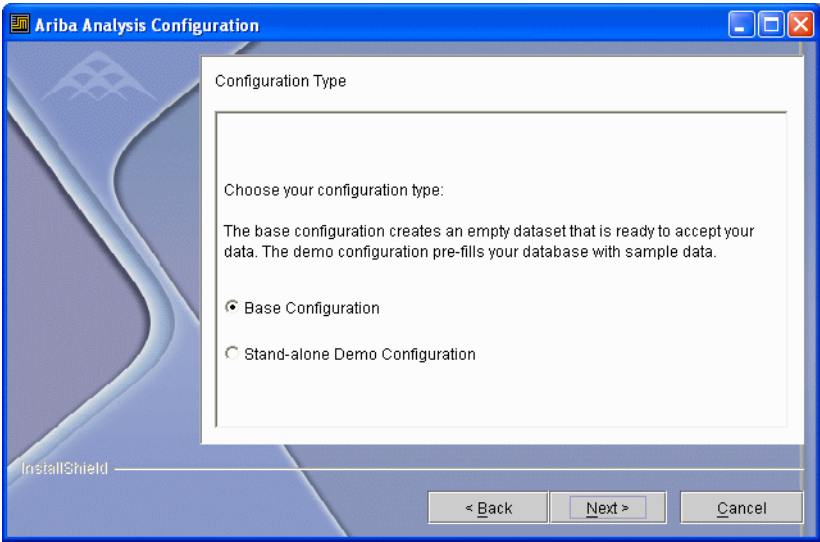
- 1 Run the configure program:

```
cd AnalysisInstallRoot\Server\bin  
configure
```

- 2 Begin by clicking **Next** on the welcome screen:



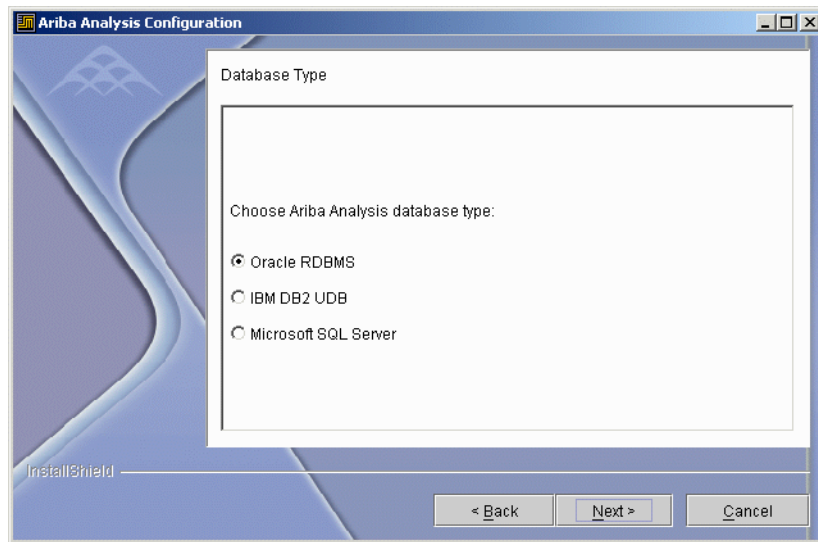
**3** Select the kind of configuration you want: **Base** or **Stand-alone Demo**.



Name	Description
Basic Configuration	A basic Spend Analysis configuration suitable for customization of a production rollout of Ariba Analysis
Standalone Demo Configuration	A sample implementation of Ariba Analysis with demonstrative definitions to load data from CSV files representing data from Ariba Buyer, Ariba Category Management, and Ariba Enterprise Sourcing

---

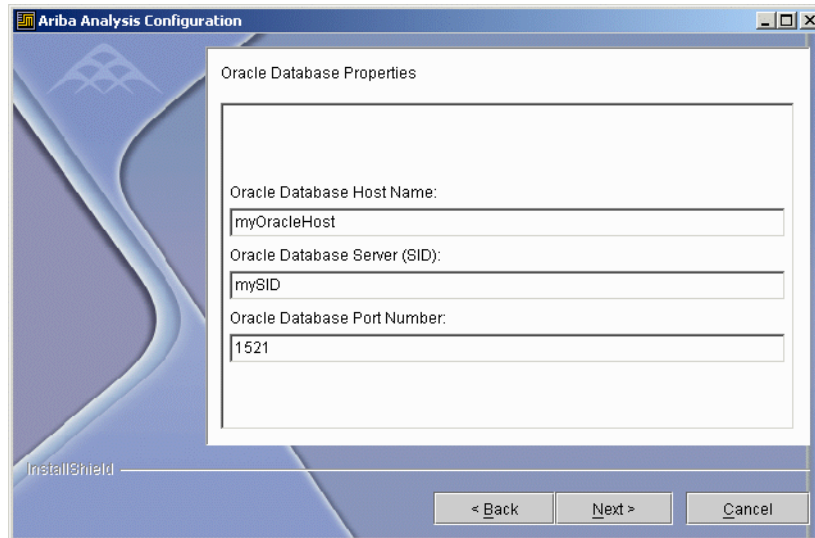
4 Specify which database you plan to use with Ariba Analysis:



If you are using database...	Go to...
Oracle	<a href="#">page 47</a>
IBM DB2UDB	<a href="#">page 49</a>
Microsoft SQL Server	<a href="#">page 52</a>

## Oracle

- 5 If you are using Oracle RDBMS, indicate the details necessary to connect to the database, as described in “**Install Database**” on page 20.

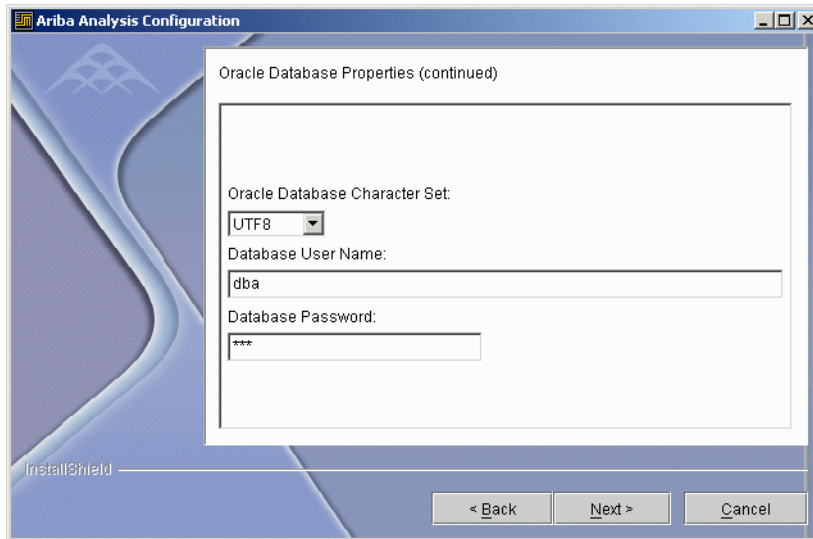


The screenshot shows a window titled "Ariba Analysis Configuration" with a blue background and a white dialog box titled "Oracle Database Properties". The dialog box contains three text input fields:

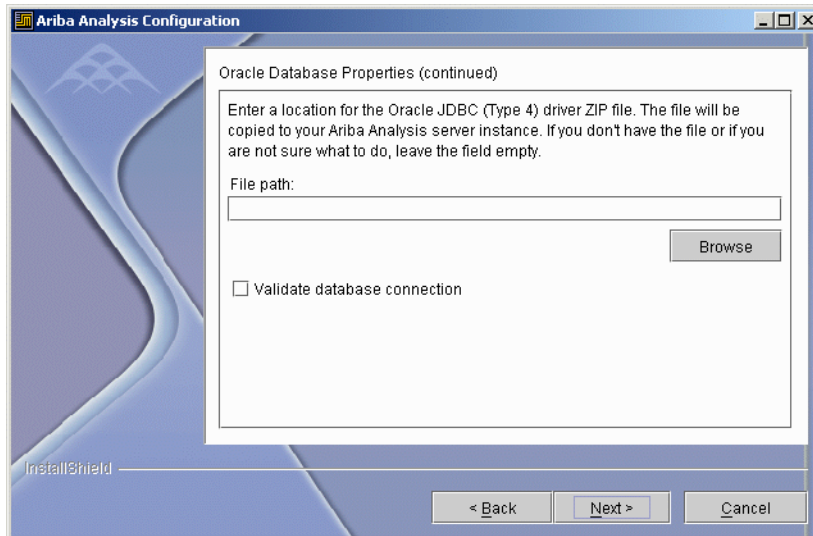
- Oracle Database Host Name: myOracleHost
- Oracle Database Server (SID): mySID
- Oracle Database Port Number: 1521

At the bottom of the dialog box are three buttons: "< Back", "Next >", and "Cancel". The "InstallShield" logo is visible in the bottom left corner of the main window.

- 6 Select the Oracle character set and specify the user name and password necessary to login to the database, as discussed in “**Install Database**” on page 20.

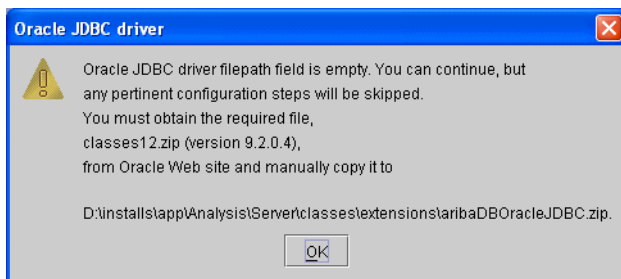


- 7 If you already have a JDBC driver on disk, browse to its location and select it.





If you do not select a JDBC driver at this time, you will see the following warning:



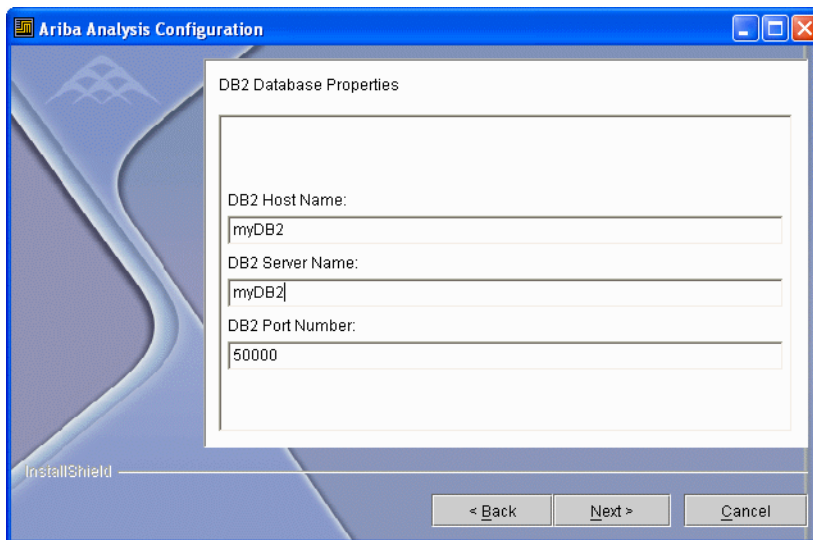
For information about obtaining a JDBC driver, see “[Install JDBC Driver](#)” on page 67 for details.

**Note:** Choose **Validate database connection** if you wish to do so at this time.

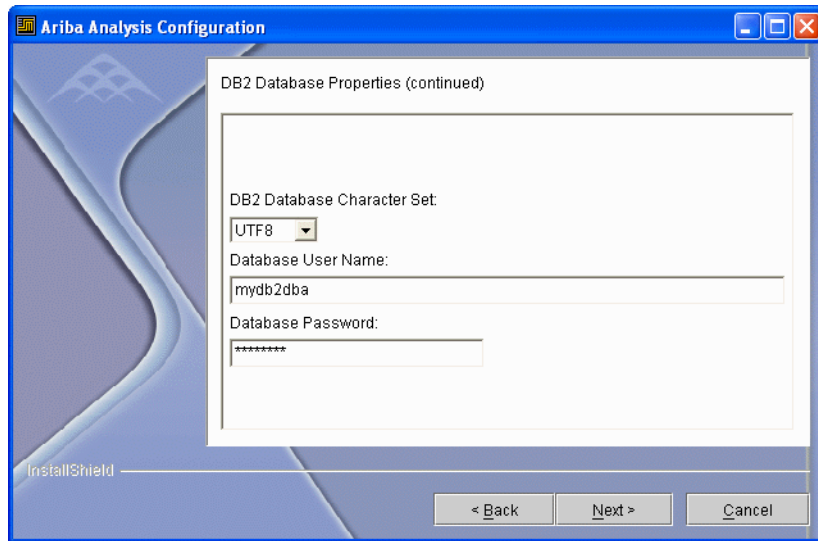
Now that you have entered your database information, go to [page 54](#).

## IBM DB2 UDB

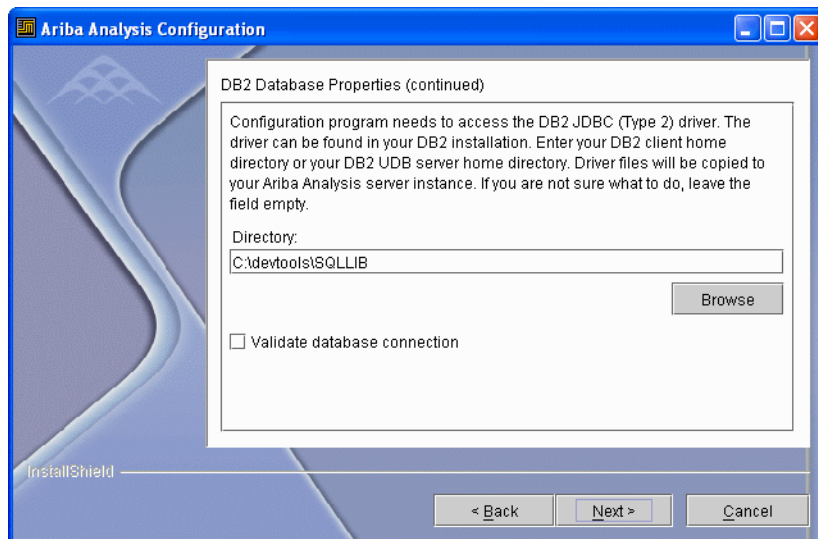
- 8 If you are using IBM DB2, indicate the details necessary to connect to the database, as described in “[Install Database](#)” on page 20.



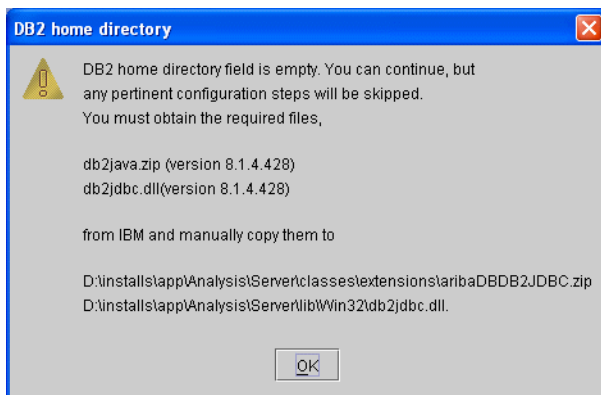
- 9 Enter the DB2 host name, server name, and port number.



- 10 If you already have a JDBC driver on disk, browse to its location and select it.



If you do not select a JDBC driver at this time, you will see the following warning:



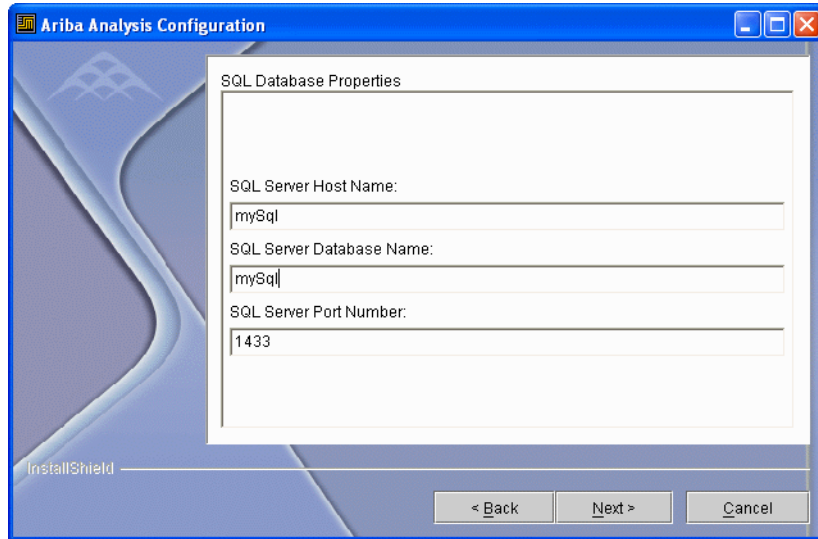
For information about obtaining a JDBC driver, see “[Install JDBC Driver](#)” on page 67 for details.

**Note:** Choose **Validate database connection** if you wish to do so at this time.

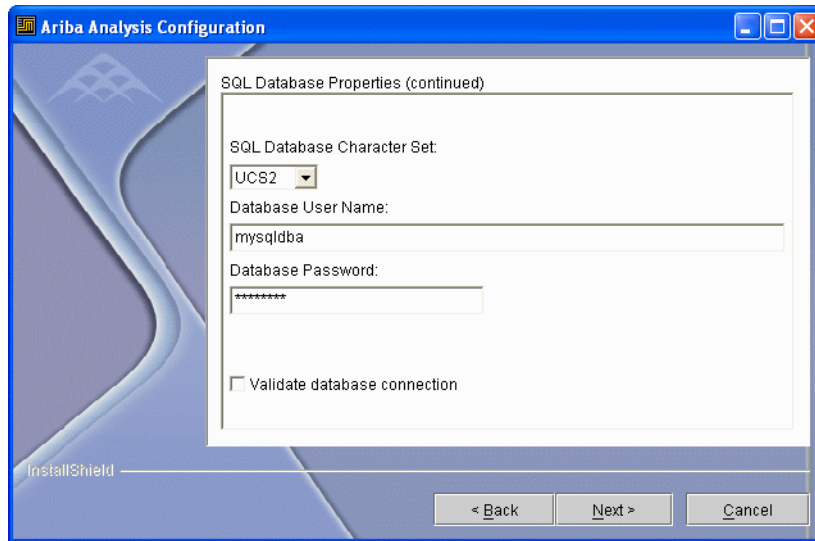
Now that you have entered your database information, go to [page 54](#).

## Microsoft SQL Server

11 If you are using Microsoft SQL Server, enter the pertinent details.



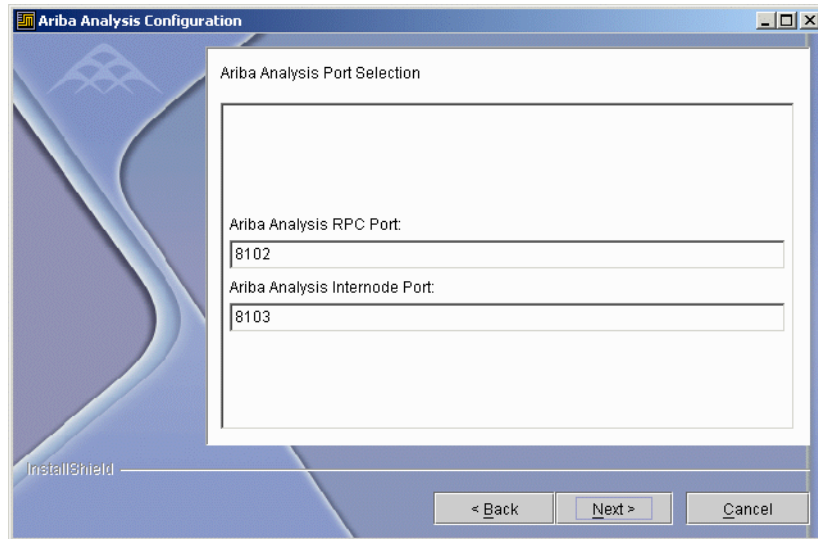
**12** Select the character set and enter the database user name and password.



**Note:** Choose **Validate database connection** if you wish to do so at this time.

Now that you have entered your database information, go to [page 54](#).

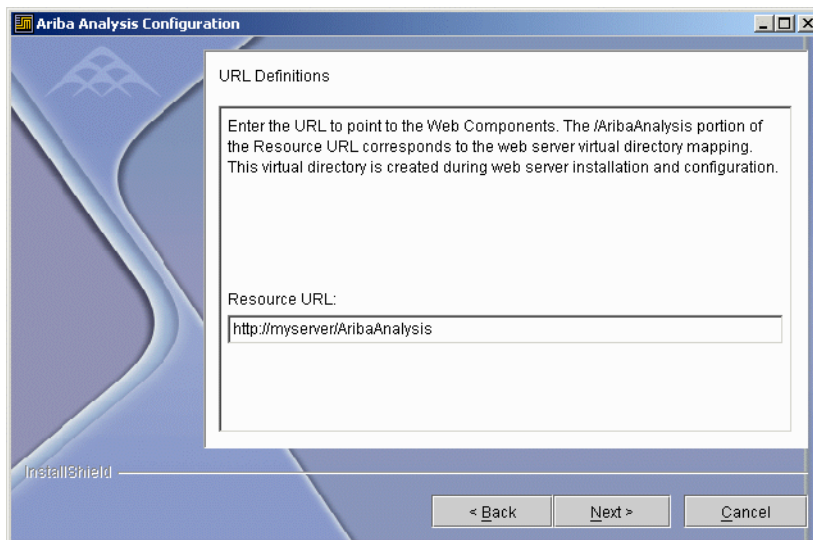
- 13 Accept the defaults for **RPC Port** and **Internode Port** or change them to values appropriate for your system:



**Note:** Ariba Analysis binds to the sockets associated with the RPC and internode ports (which are for server-to-server data communication) but does not actively use them in this release. Therefore, the ports you specify here must not be in use by any other process.

**14** Indicate your Resource URL.

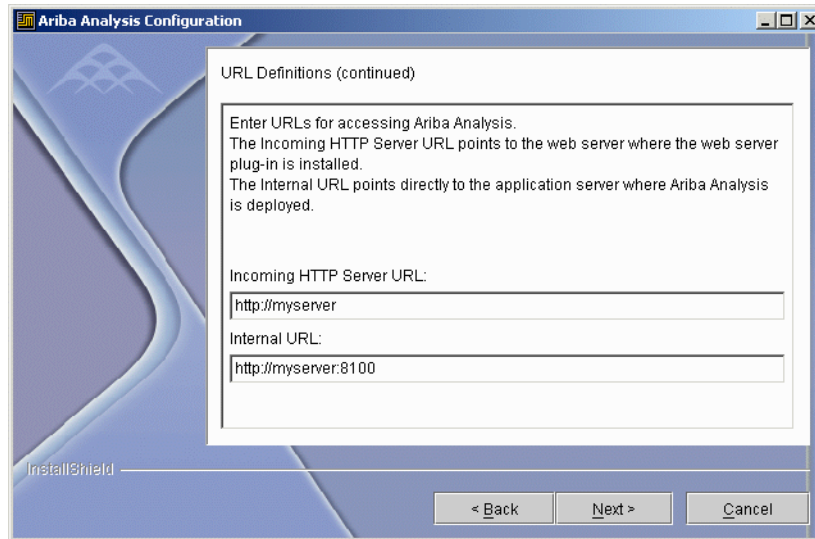
Accept the defaults at this time, if you like. You can change these URLs after installation.



The *resource URL* (/AribaAnalysis/ by default) corresponds to a web server directory mapping you create after installation so that Ariba Analysis HTML and graphics are properly displayed. See “[Configuring Application and Web Servers](#)” on page 71.

**Note:** The URI portion of your resource URL (to the right of host name and port) must not begin with the string Analysis. Otherwise, you will get an error when you try to access your server.

- 15 Enter the host name portion of the URL by which your users will access Ariba Analysis.



The URL by which users access Ariba Analysis is partially composed of what you enter here: the host name and port for your front-end server to Ariba Analysis. This host name might represent your web server front-end to Ariba Analysis. Or if you are not using a Web proxy, enter the application server host name and port.

The *Ariba Buyer Application Server Guide* discusses this topic in greater detail:

- The Incoming HTTP Server URL is where you install the proxy plug-in to forward HTTP requests to your application server.
- The Internal URL parameters points directly to the application server running the Ariba Analysis application.

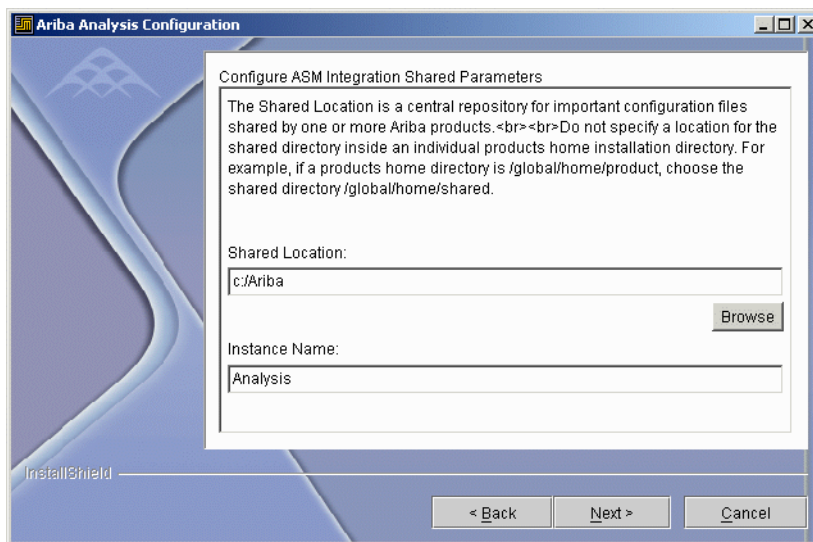
The complete URL to access Ariba Analysis consists of the value you enter here in addition to /Analysis/Main (by default), for example:

`http://yourHostName:yourAppServerPort/Analysis/Main`

**Note:** You can modify these parameters after installation depending on your precise configuration. For details about configuring the URL to access Ariba Analysis, see the section on constructing a login URL in the *Ariba Analysis Configuration Guide*.



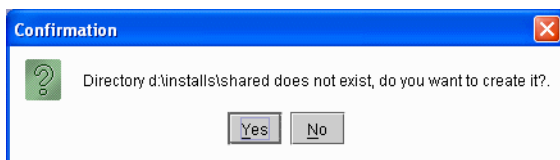
- 16** You are prompted for some Ariba cross-product information. Enter a directory where the configuration program can store parameters shared among all Ariba applications:



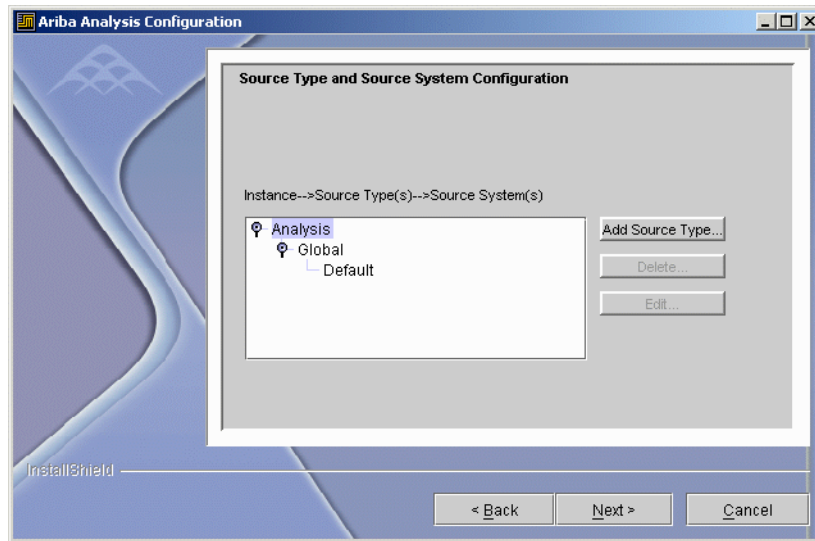
Accept the default for the **Instance Name** or specify a name you prefer.

**Note:** For more information about the ASM shared directory and other integration topics, see the *Ariba Spend Management Integration Guide*.

- 17** If this is the first time you have run the configuration program, you are prompted to create the directory you specified.



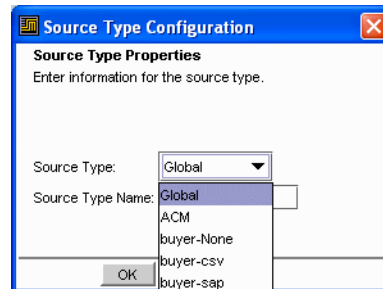
## 18 Create data loading source types and source systems.



*Source systems* are a mechanism for segregating data loaded into Ariba Analysis. They keep data loaded from different sources, such as Ariba Buyer or ERP systems, separate. The configure program creates the global, default source system

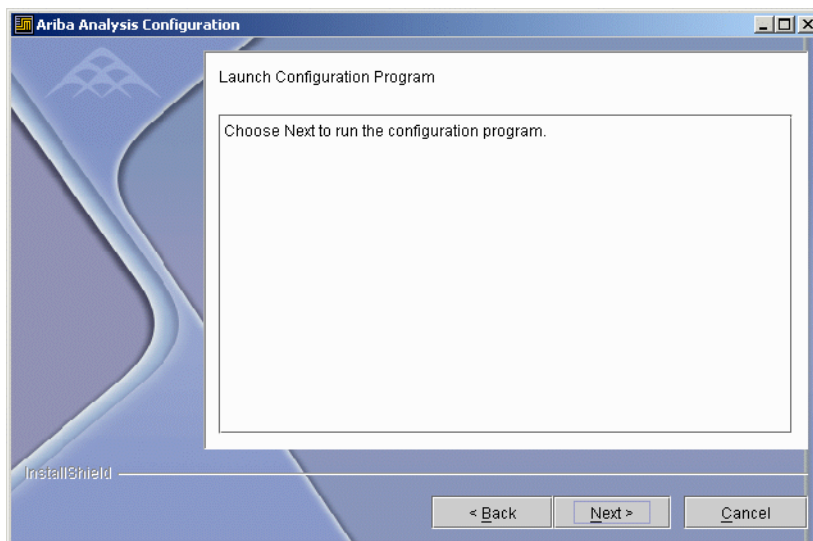
using the basic configuration (not the demo configuration). You can create additional source systems now.

If you do not want to add more source systems now, use the `addsourcesystem` command later. For more information about source systems and `addsourcesystem`, see the *Ariba Analysis Data Load Guide*.

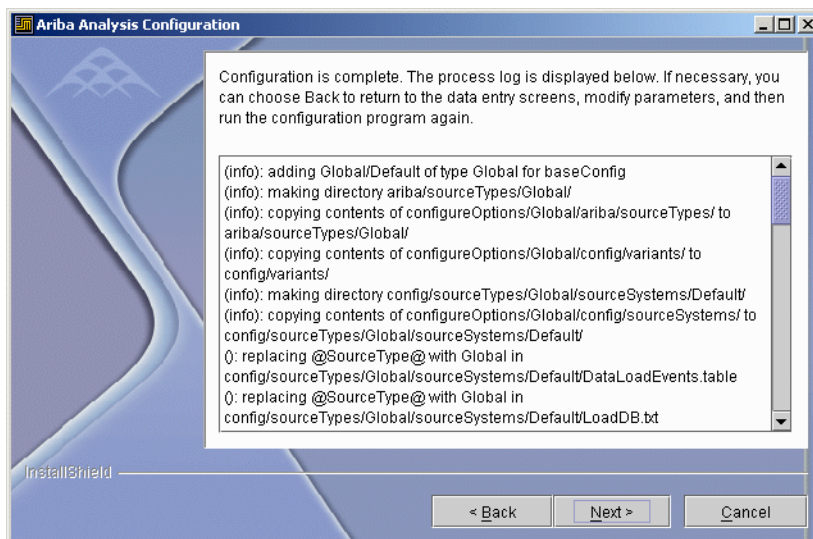


Accept the default source systems by clicking **Next**, or create other source systems and then click **Next**.

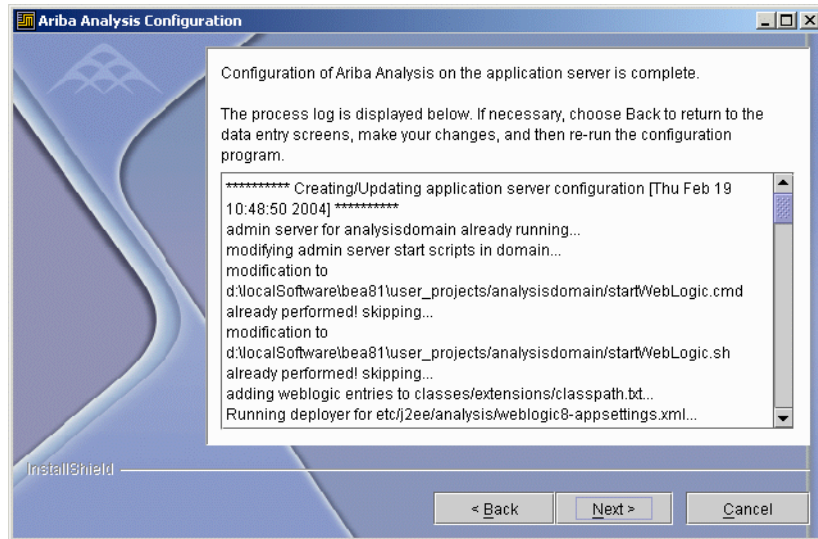
**19** Start the actual configuration by clicking **Next**.



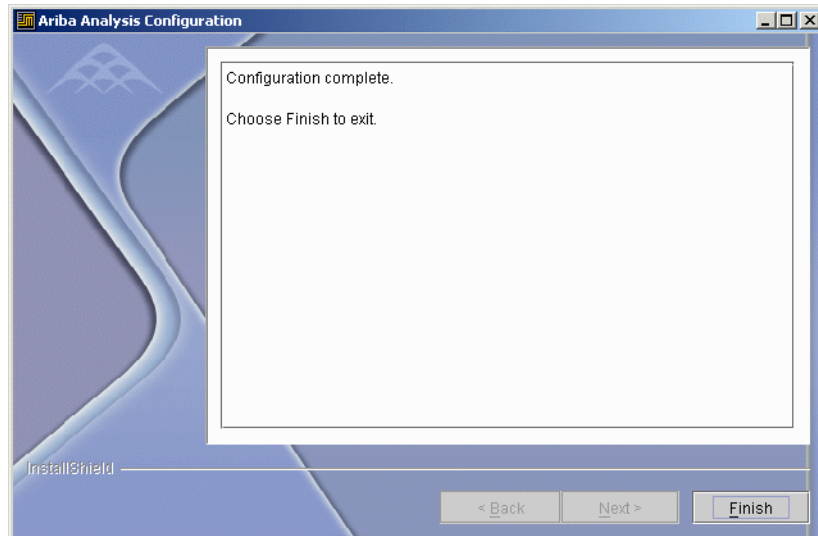
**20** When the configuration program is finished, it displays its log in the window.



- 21 When the configuration program is finished, scroll down and look for the text:  
**Done**



- 22 Click **Finish**, and you are done.



# Reinstalling Ariba Analysis

---

If for some reason you wish to reinstall Ariba Analysis, you must install it in a new directory on your system or if you prefer to reuse the same location, uninstall Ariba Analysis.

Use the uninstallation programs provided with the software, as shown in this table. You can remove the Ariba Analysis core server component, the Web resources, or both.

Windows	<i>AnalysisInstallRoot\Server\_uninst\uninstallServer.exe</i> <i>AnalysisInstallRoot\WebComponents\_uninst\uninstallWeb.exe</i>
UNIX	<i>AnalysisInstallRoot/Server/_uninst/uninstallServer.platformName.bin</i> <i>AnalysisInstallRoot/WebComponents/_uninst/uninstallWeb.platformName.bin</i>

where *platformName* is one of Solaris, HP-UX, or AIX.

Before reinstalling to the same location, you must manually remove any files remaining after running the uninstallation program.

# Rerunning configure

---

**Warning:** Do not re-run the configure program without first removing the <Instance> in the AppInfo.xml global configuration file that corresponds to the Ariba Analysis installation you want to reconfigure. To remove the affected instance, you can either edit AppInfo.xml manually or use the `updateappinfo -remove` command. For more information about AppInfo.xml and `updateappinfo`, see the *Ariba Spend Management Integration Guide*.

# Troubleshooting the Installation

---

This section lists solutions or workarounds for some problems you might encounter during installation.

## Insufficient Temporary Space

If you did not make sure to have at least 100 MB of free temporary disk space (in `/var/tmp` on UNIX) before installation (see [page 26](#)), the installation program fails to start. You might see no error messages at all, or you might see error messages about insufficient space. For example:

```
msgcnt 2 vxfs: mesg 001: vx_nospace - /dev/vg00/lvo18 file system full (1
block extent)
```

**Solution:** Remove the directories created by the failed installation and reinstall. Note that the installation program might leave directories in the temporary directory that you may want to remove:

**UNIX** `/var/tmp` files with names like `isj*` or `ismp*`

**Microsoft Windows** `C:\TEMP` files with names like `LRE*.tmp` or `ismp*`

You can specify a file system for temporary space with the following option on the installation program:

```
-is:tempdir directory_pathname>
```

The *directory\_pathname* is the full path name of the file system or directory to use. For example, on UNIX, by default the installation program uses the directory `/var/tmp` for temporary space. You can use the following invocation of the installation program to make sure that `/usr/tmp` is used instead:

```
./setup.HP-UX.bin -is:tempdir /usr/tmp
```

## Logging Installation Program Activity

If you need to debug some problem with the installation program, you might want to log its activity. Use the following options:

```
-is:log logfile_pathname
```

For example, on Solaris, you can log to a file in `/usr/tmp` named `analysisinstall.log` with this command:

```
./setup.SunOS.bin -is:log /usr/tmp/analysisinstall.log
```

**Note:** The installation program writes a file named `is.log` to the *AnalysisInstallRoot/Server* and *AnalysisInstallRoot/WebComponents* directories only if the program encounters an error. If you use the `-is:log` option, the installation program writes the `is.log` file regardless of whether it has a problem.





---

## Chapter 4

# Initializing the Ariba Analysis Database

This chapter describes the following topics:

- “[Recommendations for Specific Databases](#)” on page 65
- “[Install JDBC Driver](#)” on page 67
- “[Initialize Ariba Analysis Database](#)” on page 68
- “[Possible Problems during Database Initialization](#)” on page 68

**Warning:** The sequence of database initialization for the Ariba Spend Management applications depends on which applications you are integrating. You might need to initialize the database for Ariba Analysis either before or after some other application. See the *Ariba Spend Management Integration Guide* for more details about the precise sequence.

---

## Recommendations for Specific Databases

Consult the *Ariba Buyer Database Configuration Guide* for recommendations about tuning your databases for maximum performance and other important considerations. All recommendations in that book regarding the databases for use with Ariba Buyer apply equally to the databases for use with Ariba Analysis.

### IBM DB2 Table Statistics with REORGCHK

The Ariba Analysis database initialization command `initdb -initdb` automatically executes the REORGCHK statement described in the section on updating Ariba Buyer table statistics in the *Ariba Buyer Database Configuration Guide*, so you do not need to manually run REORGCHK as recommended by that book.

**Set Environment Variable for DB2 Before initdb**

Set the `db2_index_2bytevarlen` environment variable set to `on`. This needs to be set before running the `initdb` command to initialize the Ariba Analysis database on IBM DB2. For example:

```
db2set db2_index_2bytevarlen=on
```

Without your setting this environment variable, you will receive the following error during database initialization:

```
SQLState: 54008
Message: [IBM][CLI Driver][DB2/NT] SQL20075 The index or index extension
"PK_NEWGLLOCKTAB" cannot be created or altered because the length of
"LOCKNAME" is more than 255 bytes.
```

**Microsoft SQL Server 2000**

Microsoft SQL Server can be used only with BEA Web Logic application server., but not IBM WebSphere. The necessary JDBC driver for communication with Microsoft SQL Server is packaged in WebLogic; no manual intervention is required.

In a fashion similar to practices in Ariba Buyer, Ariba Analysis does not maintain database statistics. You must tune your SQL Server instance to maintain your own statistics. (This is different from Ariba Analysis support of automated statistics for Oracle.)

If you re-initialize the database with `initdb -initdb` more than once, you must either drop and re-create your database account or you must manually drop the `FACT_*` and `JOIN_*` tables from the database. Ariba Analysis uses foreign keys in the database, but SQL Server does not have the ability to drop tables without dropping the constraint.

## Install JDBC Driver

---

You must install the appropriate Java Database Connection (JDBC) driver for the database you are using with Ariba Analysis. Once you have acquired the driver, copy the zip file to the subdirectory *AnalysisInstallRoot\Server\classes\extensions*, making sure to rename the file appropriately for your database software, as shown in the following table.

Database	JDBC Version	Available from	Zip File Must be Renamed
IBM DB2	DB2 7.2 Type 2	DB2 distribution media. Look for file db2java.zip.	aribaDBDB2JDBC.zip
		<b>Warning:</b> Use the driver from the java12 directory, not the java directory.	
Oracle	Oracle 9.2.0.4 Type 4	<a href="http://www.oracle.com/">http://www.oracle.com/</a> . Look for file oraclejdbc920.zip.	aribaDBOracleJDBC.zip
Microsoft SQL Server		No manual installation is required. The necessary JDBC driver for communication with Microsoft SQL Server is packaged in WebLogic.	

### Database Library for IBM DB2 on Microsoft Windows and AIX

Be sure to copy the following files as appropriate for your operating system:

OS	Source File Name	Target Directory
Windows	<i>DB2InstallRoot\bin\db2jdbc.dll</i>	<i>AnalysisInstallRoot\Server\lib\win32\</i>
IBM AIX	<i>B2InstallRoot/lib/libdb2jdbc.so</i>	<i>AnalysisInstallRoot/Server/lib/aix/</i>

## Initialize Ariba Analysis Database

---

You must run the `resetDataBaseOwner` and `initdb` commands supplied with Ariba Analysis to initialize the database that Ariba Analysis uses.

**Note:** The Ariba Analysis database initialization programs require client software to connect to your database: `db2batch` for DB2. Make sure your environment includes the path to the appropriate command and any essential software libraries to run it.

### Minimal Database Initialization

To initialize the database for testing integration with other Ariba applications, use the following command:

```
initdb -initdb -file LoadDB.basic.txt
```

For full database initialization, use:

```
initdb -initdb
```

#### ▼ To initialize the database:

- 1 Start a command window or get a UNIX shell prompt.
- 2 Enter the following commands:

```
AnalysisInstallRoot\Server\bin\resetdatabaseowner  
AnalysisInstallRoot\Server\bin\initdb -initdb
```

**Note:** Database initialization can take some time to load the data, especially if you have chosen to install one of the Ariba Analysis demo configurations.

## Possible Problems during Database Initialization

---

Workarounds for problems you might encounter during initialization of the Ariba Analysis database are discussed in this section.

### Benign deadlock error from `initdb`

When `initdb` is running, if the data set is large, you might see the following warning message, but it does not indicate any serious problem.

## Oracle

Wed Sep 11 23:51:29 PST 2002 (sqlio:warning:3618): Received 60 (deadlock detection) warning

## DB2

Mon Nov 11 09:56:52 PST 2002 (sqlio:warning:5334): Received -911 (deadlock detection) warning

## DB2, Query too long or complex loading from Ariba Buyer

In loading data from an Ariba Buyer instance running with an IBM DB2 database server, the database server might encounter an error because a generated query is too long.

The Ariba Buyer Server logs show a message similar to the following:

```
[9/18/02 13:02:39:500 PDT] 289608 SystemOut U Wed Sep 18 13:02:39 PDT
2002 (*:*:ley2b:Node1) (sqlio:warning:1328): SQLException Error while
preparing statement on COM.ibm.db2.jdbc.DB2Exception: [IBM][CLI
Driver][DB2/NT] SQL0101N The statement is too long or too complex.
SQLSTATE=54001
```

The Ariba Analysis logs show a message that resembles the following. The actual stack trace will be different, however:

```
Wed Sep 18 13:17:36 PDT 2002 (analytics:warning:5005): Problems reading url
<http://yourBuyerServer:8001/Buyer/analysis/aqlpull>:
java.io.FileNotFoundException:
. . .
Wed Sep 18 13:17:36 PDT 2002 (analytics:warning:4985): Throwable caught in
LoadDB: ariba.analytics.dataLoad.DataLoadException: Problems extracting data
from Buyer
```

**Answer/Workaround:** Increase the statement heap (STMTHEAP) for the affected Ariba Buyer DB2 database server to 15,000 4K pages. (The default is 4,092 4K pages.) Use the following DB2 command:

db2 update db cfg for buyerdb using stmtheap 15000

## ORA-04020, Object locking problem with initdb

In the unlikely event that you simultaneously initialize multiple instances of the Ariba Analysis database on a single database server, you may get Oracle error ORA-04020, and initdb may fail. The error message resembles the following although the exact object to be locked might be different.

```
java.sql.SQLException: ORA-04020: deadlock detected while trying to lock
object ALIU.DIM_USER_DATA
at oracle.jdbc.dbaccess.DBError.throwSQLException(DBError.java:168)
at oracle.jdbc.ttc7.TTIoer.processError(TTIoer.java:208)
at oracle.jdbc.ttc7.Oa117.receive(Oa117.java:543)
at oracle.jdbc.ttc7.TTC7Protocol.doOa117(TTC7Protocol.java:1405)
at oracle.jdbc.ttc7.TTC7Protocol.parseExecuteDescribe(TTC7Protocol.java:643)
at
oracle.jdbc.driver.OracleStatement.doExecuteQuery(OracleStatement.java:1674)
at
oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java:
1870)
at oracle.jdbc.driver.OracleStatement.executeQuery(OracleStatement.java:538)
```

**Answer/Workaround:** Avoid running initdb at the same time on two Analysis instances hosted on the same database server.

## ORA-1450, Maximum key length exceeded

When an index is created, the total length of the index cannot exceed a certain limit. This value depends primarily on the DB\_BLOCK\_SIZE. If an attempt is made to create an index larger than the maximum value, the error ORA-1450 occurs:

```
ORA-01450 maximum key length (758) exceeded ->(2K Block)
ORA-01450 maximum key length (1578) exceeded ->(4K block)
ORA-01450 maximum key length (3218) exceeded ->(8K Block)
ORA-01450 maximum key length (6498) exceeded ->(16K Block)
```

**Answer/Workaround:** The only way to correct this error is to increase DB\_BLOCK\_SIZE and rebuild the database by re-running initdb. See "[Database Block Size](#)" on page 23.

---

## Chapter 5

# Post-installation Tasks

This chapter discusses the following topics:

- “**Configuring Application and Web Servers**” on page 71
- “**Verify the Analysis Installation**” on page 72
- “**Installing Ariba Analysis as a Windows Service**” on page 73
- “**Important Administrative Tasks**” on page 73

## Configuring Application and Web Servers

---

Details about configuring application and web servers for use with Ariba Analysis are in the *Ariba Spend Management Application and Web Server Guide*

Essential topics for configuring an application server and a web server are as follows:

- Setting a virtual directory for Ariba Analysis Web components
- Configuring proxy forwarding to an application server

## Disabling the WebSphere JIT

To avoid a problem in charting in Ariba Analysis, you must disable the Just-In-Time compiler in IBM WebSphere.

- 3 Access IBM WebSphere admin console
- 4 From the navigation panel, select **Servers --> Application Servers**
- 5 Click the server that runs Ariba Analysis, for example, **analysisserver1**.
- 6 Select **Process Definition** from the **Additional Properties** section.
- 7 Select **Environment Entries** from the **Additional Properties** section.
- 8 Click **New** and enter the following:

**Name:** JITC\_COMPILEOPT

**Value:** NALL{[t/monarch/chart/chart2D/RadarAxisSet]}{draw}

**9** - Click **Apply**.

**10** - Click **Save** in the confirmation page.

**11** - Click **Save** again.

## Verify the Analysis Installation

---

To verify that Ariba Analysis has been installed correctly, point your Web browser to a URL similar to the following:

`http://YourServerName:PortNumber/Analysis/Main`

For example, if you have been using the default parameters throughout the installation process as described in this guide, then the URL is similar to the following:

`http://MyAnalysisFrontEnd.MyCompany.com:8100/Analysis/Main`

You know that your installation is successful when you see the login page, which is the default page when Ariba Analysis runs in development mode:

If you do not see the images shown above, there are two possible problems:

- You did not start your web server front-end to Ariba Analysis
- You might not have properly set up your virtual directory for the Ariba Analysis Web components (the Resource URL). See the *Ariba Spend Management Application and Web Server Guide* for details.



## Installing Ariba Analysis as a Windows Service

---

Ariba Analysis comes with a program you can use to install Ariba Analysis as a Microsoft Windows service: `serviceinstall`.

See Appendix A, “`serviceinstall`,” for details.

## Important Administrative Tasks

---

Now that you have completed installing Ariba Analysis, you should take care of some important administrative considerations. These tasks are detailed in the *Ariba Analysis Customization Guide*:

- 1 Several tasks related to securing your Ariba Analysis installation are in the *Ariba Analysis Configuration Guide*.
- 2 You must set the dates for your data prior to loading any data. See the *Ariba Analysis Data Load Guide*



---

## Appendix A

# serviceinstall

This appendix contains the formal syntax of the `serviceinstall` program, which installs an Ariba application as a Microsoft Windows service.

**Warning:** The directory on Microsoft Windows where you have installed your application server must not contain a path name. Otherwise, `serviceinstall` will fail, and you will need to use special options. Avoid installing your application server in directories like the following:

C:\Program Files\WAS

The examples show how to avoid this problem.

## Syntax

---

```
serviceinstall [-dependency nameList] -serverName serviceName [options]  
[-useNodeManager]
```

```
serviceinstall -uninstall [-serverName serviceName]
```

## Options

---

The following options accept variable arguments.

### **-dependency *nameList***

A dependency specifies the order in which the services specified in *nameList* must be started by Microsoft Windows.

---

The *name1ist* value must consist of one or more names separated by a colon with no extra spaces. The following are possible values.

<b>Namelist</b>	<b>Description</b>
<i>serviceName</i>	Any Microsoft Windows service name you want to install or the syntax:
or	
<i>serviceName1:serviceName2</i>	J2EEServer{ <i>server1</i> , ..., <i>serverN</i> }
	See the examples for usage.
<i>+groupName</i>	Group names must begin with + to distinguish them from service group names.

### **-serverName**

The *server* value for the can be any of the following.

<b>Application Server</b>	<b>Value of serviceName</b>
WebSphere	dmgr nodeagent Application server
WebLogic	AdminServer NodeManager Application server

### **-useNodeManager**

For Ariba Analysis with WebLogic only, to install the application as a Windows service, you must use the **-useNodeManager**. The benefit of this option is that the Node Manager monitors the status of the server, and the server can be restarted automatically.

### **-uninstall**

If no **-serviceName** is supplied with **-uninstall**, all servers are uninstalled.

## Examples

---

This section contains examples of the use of `serviceInstall` with the following application servers.

- [WebSphere](#)
- [Weblogic](#)

### WebSphere

The names of the WebSphere services to be installed begin with the following string.

IBM Websphere Application Server V5 -

For example, the fully qualified name of the deployment manager in a WAS cell on a node called `wasserver` is as follows:

IBM Websphere Application Server V5 -WASSERVERNetwork\_WASSERVER\_dmgr"

- 1 Add deploymentManager as a service. The full path name is used with the `-wasHome` option because it contains spaces.

```
serviceinstall -wasHome d:/progra~1/webSphere/deploymentManager/  
-serverName dmgr
```

- 2 Add nodeagent as a service, with a dependency on dmgr

```
serviceinstall -wasHome d:/progra~1/webSphere/appServer/ -serverName  
nodeagent -dependency J2EEServer{dmgr}
```

- 3 Add the Ariba Analysis application server `analysisserver1` with dependencies on both `dmgr` and `nodeagent`.

```
serviceinstall -wasHome d:/progra~1/webSphere/appServer/ -serverName  
analysisserver1 -dependency J2EEServer{dmgr,nodeagent}
```

- 4 Uninstall the Ariba Analysis application server `analysisserver1` service.

```
serviceinstall -uninstall -wasHome d:/progra~1/webSphere/appServer/  
-serverName analysisserver1
```

- 5 Remove the deployment manager.

```
serviceinstall -uninstall -wasHome d:/progra~1/webSphere/deploymentManager/  
-serverName dmgr
```

---

## Weblogic

Names of WebLogic services to be installed start with the following string:

WL\_

For example, the following is formal name of the application server for Ariba Analysis:

WL\_App\_analysisdomain\_analysisserver1

- 1 Add the WebLogic administration server as a service.

```
serviceinstall -serverName AdminServer
```

- 2 Add NodeManager as a service and declare a dependency on AdminServer

```
serviceinstall -serverName NodeManager -dependency J2EEServer{AdminServer}  
-machine wlmachine
```

- 3 Add the application server analysisserver1 and declare a dependency on AdminServer and NodeManager

```
serviceinstall -serverName analysisserver1 -dependency  
J2EEServer{NodeManager} -useNodeManager
```

---

## Appendix B

# Silent Installation

The Ariba Analysis silent installation program differs slightly from other Ariba applications' silent installation because it runs both the installation and configuration from the same .sp file.

This chapter discusses the following topics:

- [Understanding Silent Mode](#)
- [Installation Program in Silent Mode](#)
- [The Uninstall Program in Silent Mode](#)

---

## Understanding Silent Mode

In silent mode, the installation program or configuration program reads input from a configuration file and does not require interactive user input. The input parameters are supplied in a *system property file*, with extension .sp.

The default configuration does not supply a standard SP file because the SP file contains information specific to your configuration, such as computer names and port numbers. Instead, the SP file is created by the installation and configuration programs during the GUI process. You can modify that generated file later and use it as input to successive installs in silent mode.

SP files provide a convenient way to store default values specified during initial installation and configuration. Use SP files when rerunning installation or configuration to simplify the process in several ways:

- If you rerun install or configure from the GUI, use the SP files to pre populate fields in the dialog boxes.
- Use the SP files as input to run install or configure in silent mode, without user input.
- Use the SP files to run only a portion of the install or configure scripts (for example, to add optional features or configure multiserver logical nodes).

## SP File Format

A system properties file is a text file, which you can edit with any text editor.

System properties are formatted as key/value pairs in the form:

<key>=<value>

For example, typical lines are as follows:

```
ariba.product.displayname=Ariba Category Management
ariba.product.name=analysis
ariba.product.version=3.0
#this is a comment
```

On Microsoft Windows, double backslashes (\\) are required in path names. For example:

```
analysis.home=D:\\Ariba\\app\\analysis
```

Key/value pairs that are removed are treated as though their value is false.

Lines that begin with # are comments.

## An Example Install.sp File

An annotated example install.sp file is shipped with Ariba Category Management. It is intended only as an example, and illustrates a possible WebLogic configuration. It cannot be used in its current form, and must be updated to reflect the specifics of your installation. The example file is located in the following location:

*AnalysisServerRoot/doc/wl\_install.sp.txt*

## Installation Program in Silent Mode

---

Use the install program in silent mode either to update settings of an existing instance or to install a new instance.



## About install.sp

The `install.sp` file is created when you run the installation program in GUI mode, and it is read when you run the installation program in silent mode.

This file includes the information needed to install Ariba Category Management, deploy it to the application server, and configure the instance

## Creating install.sp

When you run the install program in GUI mode, the installation program writes the file `install.sp`. Once you have created an SP file, you can edit that file and use it as input to rerun the installation program in silent mode.

**Note:** The SP file is created when you install the Ariba Category Management Server Components; it is not created if you install only the Ariba Category Management Web Components component.

The `install.sp` file is written to the following locations:

- Ariba Analysis distribution image root
- Ariba Analysis installation in `<AnalysisServerRoot>/etc/install`

## Reading install.sp

When running the silent installation program, the installation program looks first for an SP file in the distribution image root, and then in `etc/install`. If any duplicate properties exist, the value of the property in the last file loaded (the SP file in `etc/install`) is used.

If you prefer to have only one SP file loaded or want to keep the file in a different directory than `etc/install`, specify the location of the SP file using the `IS_SPFILE` environment variable.

When specifying the directory, use an absolute path. For example:

---

<b>Microsoft Windows</b>	<code>set IS_SPFILE=C:\mydir\myspfile.sp</code>
--------------------------	---

---

The location must include a disk drive letter.

## Editing install.sp

If you edit `install.sp`, never change properties that specify the product or version information. Modify only properties that specify the installation locations of the application server, the Ariba Analysis server and Ariba Analysis web components, and the features to install.

The following shows a few lines from an `install.sp` file:

```
analysis.home=D:\\ariba\\app\\Analysis
analysis.server.home=D:\\ariba\\app\\Analysis\\Server
analysis.server.selected=true
analysis.web.home=D:\\ariba\\app\\Analysis\\WebComponents
analysis.web.selected=true
```

For example, to disable the installation of Ariba Analysis web components, you can edit `install.sp` and make the following change:

```
analysis.web.selected=false
```

This setting disables (deselects) the installation of Ariba Analysis Web Components.

## Running the Installation Program in Silent Mode

### ▼ To run the installation program in silent mode:

- 1 In the Ariba Category Management distribution image, enter the following command at a command prompt:  

```
setup.exe -is:silent -silent
```
- 1 In the Ariba Category Management distribution image, type one of the following commands (as appropriate for your OS platform) at a command prompt:  

```
setup.SunOS.bin -is:log <filepath> -is:silent -silent
setup.AIX.bin -is:log <filepath> -is:silent -silent
setup.HP-UX.bin -is:log <filepath> -is:silent -silent
```

The options shown in this example are as follows:

- The `-is:log` option specifies that the output of silent mode is written to the specified file. You should always specify this option; without it, you cannot see error messages such as being out of disk space, or attempts to overwrite existing files.
- The `-is:silent` option suppresses the initial loading screen. This option is recommended whenever you run the installation program in silent mode.

## Configuring an Application Server in Silent Mode

All application Server configuration information is also taken from the .sp file used for silent mode installation. To run the Application Server configuration program in silent mode, use the following command:

```
AnalysisServerRoot/bin/configureappserver -silent
```

## Configuring Ariba Analysis in Silent Mode

Before running the configure command in silent mode, you must unset the environment variable file for the .sp file (IS\_SPFILE). For example, in a Korn shell, use the command:

```
unset IS_SPFILE
```

All configuration information is also taken from the .sp file used for silent mode installation. To run the configuration tool in silent mode, use the following command:

```
AnalysisServerRoot/bin/configure -silent
```

## The Uninstall Program in Silent Mode

---

The Ariba Analysis server and Ariba Analysis web components have separate uninstall programs.

If both components reside on the same computer, each uninstall program reads the SP file.

If the components reside on different computers, the Ariba Analysis server uninstall program reads the SP file, but the Ariba Analysis Web Components uninstall program does not.

---

**▼ To uninstall Ariba Analysis components in silent mode:**

In the *AnalysisServerRoot/\_uninst* directory, enter the following command at a command prompt:

---

<b>Ariba Analysis Server</b>	<code>uninstallServer.exe -is:silent -silent</code> <code>uninstallServer.SunOS.bin -is:silent -silent</code> <code>uninstallServer.AIX.bin -is:silent -silent</code> <code>uninstallServer.HP-UX.bin -is:silent -silent</code>
<b>Ariba Analysis Web Components</b>	<code>uninstallWeb.exe -is:silent -silent</code> <code>uninstallWeb.SunOS.bin -is:silent -silent</code> <code>uninstallWeb.AIX.bin -is:silent -silent</code> <code>uninstallWeb.HP-UX.bin -is:silent -silent</code>

---

---

# Index

## A

- application server tier 13
- application servers 23, 71
- architectural tiers 13
- Ariba Analysis documentation viii
- Ariba Spend Management Integration Guide 31, 43, 65

## C

- configuration group name 31
- configure
  - do not rerun 61
- configure program 44
- configure program for each Ariba application 43
- configureasm program 31, 43

## D

- database tier 13
- DB2 49, 65
- DB2 considerations 21
- documentation
  - Ariba Spend Management Integration Guide 43
- documentation for Ariba Analysis viii
- downloading Ariba Analysis software 19

## G

- general steps for installation and configuration 17

## I

- install Ariba Analysis interactively 26
- installing Ariba Analysis as service on Microsoft Windows 75
- installing on Microsoft Windows 25
- integrating Ariba Analysis with other ASM applications 17
- integrating Ariba applications 31, 43

## J

- JDBC driver 67

## M

- Microsoft SQL Server 23, 52

## O

- Oracle 47

## P

- performance considerations 13

## R

- Resource URL 55

## S

- serviceinstall 75
- shared directory 57
- silent mode installation 79

---

source systems 58

## **T**

tiers, architectural 13  
troubleshooting the installation 61  
troubleshooting database initialization 68

## **W**

Web server tier 13  
web servers 71  
WebSphere JIT 71

## Third-Party Software

### Apache Software

The Apache Software License, Version 1.1

Copyright (c) 2000 The Apache Software Foundation. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>).". Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. The names "Apache" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact [apache@apache.org](mailto:apache@apache.org).

5. Products derived from this software may not be called "Apache," nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>.

### org.apache.bcel 5.0

4. The names "Apache," "Apache Software Foundation," and "Apache BCEL" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact [apache@apache.org](mailto:apache@apache.org).

### org.apache.commons.collections 2.1

4. The names "The Jakarta Project," "Commons," and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact [apache@apache.org](mailto:apache@apache.org).

### org.apache.lucene 1.2

4. The names "Apache," "Apache Software Foundation," and "Apache Lucene" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact [apache@apache.org](mailto:apache@apache.org).

5. Products derived from this software may not be called "Apache," or "Apache Lucene," nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation.

### org.apache.oro 2.0

4. The names "Apache," "Apache Software Foundation," and "Jakarta-Oro" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact [apache@apache.org](mailto:apache@apache.org).

5. Products derived from this software may not be called "Apache" or "Jakarta-Oro," nor may "Apache" or "Jakarta-Oro" appear in their name, without prior written permission of the Apache Software Foundation.

Portions of this software are based upon software originally written by Daniel F. Savarese. We appreciate his contributions.

### org.apache.poi.hssf 1.5.1

Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

### org.apache.regexp 1.2

4. The names "The Jakarta Project," "Tomcat," and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact [apache@apache.org](mailto:apache@apache.org).

### org.apache.soap 2.2

4. The names "SOAP" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact [apache@apache.org](mailto:apache@apache.org).

### org.apache.tomcat 3.2.4

4. The names "The Jakarta Project," "Tomcat," and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact [apache@apache.org](mailto:apache@apache.org).

### org.apache.xerces-1.4

4. The names "Xerces" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact [apache@apache.org](mailto:apache@apache.org).

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation and was originally based on software copyright (c) 1999, International Business Machines, Inc., <http://www.ibm.com>. For more information on the Apache Software Foundation, please see <http://www.apache.org/>.

### com.jclark 1.0

CONTAINS software developed by James Clark

Copyright (c) 1997, 1998 James Clark

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL JAMES CLARK BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

### Infozip.zip 2.3

CONTAINS software developed by Info-ZIP

Copyright (c) 1990-2003 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as the following set of individuals:

Mark Adler, John Bush, Karl Davis, Harald Denker, Jean-Michel Dubois, Jean-loup Gailly, Hunter Goatley, Ian Gorman, Chris Herborth, Dirk Haase, Greg Hartwig, Robert Heath, Jonathan Hudson, Paul Kienitz, David Kirschbaum, Johnny Lee, Onno van der Linden, Igor Mandrichenko, Steve P. Miller, Sergio Monesi, Keith Owens, George Petrov, Greg Roelofs, Kai Uwe Rommel, Steve Salisbury, Dave Smith, Christian Spieler, Antoine Verheijen, Paul von Behren, Rich Wales, Mike White

### Infozip.zip 2.3, continued

This software is provided "as is," without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. Redistributions of source code must retain the above copyright notice, definition, disclaimer, and this list of conditions.
2. Redistributions in binary form (compiled executables) must reproduce the above copyright notice, definition, disclaimer, and this list of conditions in documentation and/or other materials provided with the distribution. The sole exception to this condition is redistribution of a standard UnZipSFX binary (including SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of this license, as long as the normal SFX banner has not been removed from the binary or disabled.
3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, and dynamic, shared, or static library versions--must be plainly marked as such and must not be misrepresented as being the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or of the Info-ZIP URL(s).
4. Info-ZIP retains the right to use the names "Info-ZIP," "Zip," "UnZip," "UnZipSFX," "WiZ," "Pocket UnZip," "Pocket Zip," and "MacZip" for its own source and binary releases.





## ARIBA, INC.

807 11th Avenue  
Sunnyvale, CA 94089 USA  
Telephone: 650.390.1000  
Fax: 650.390.1100

[www.ariba.com](http://www.ariba.com)

