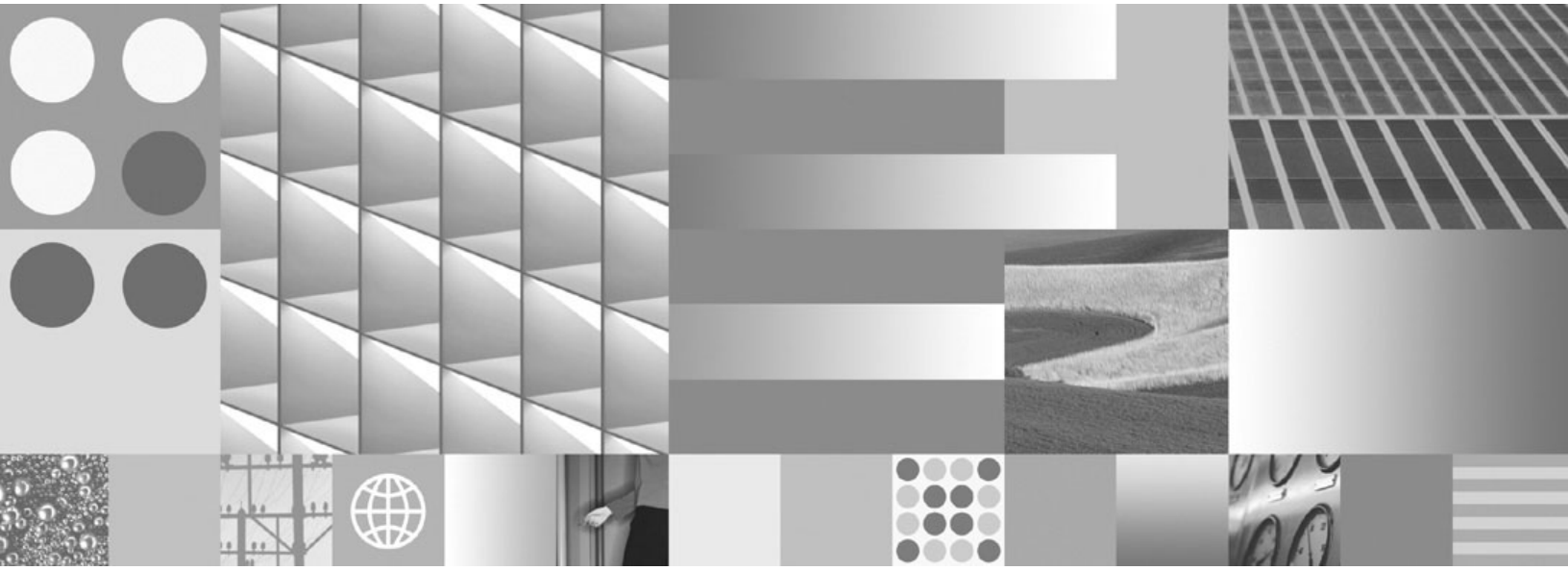
IBM Informix

Version 11.1

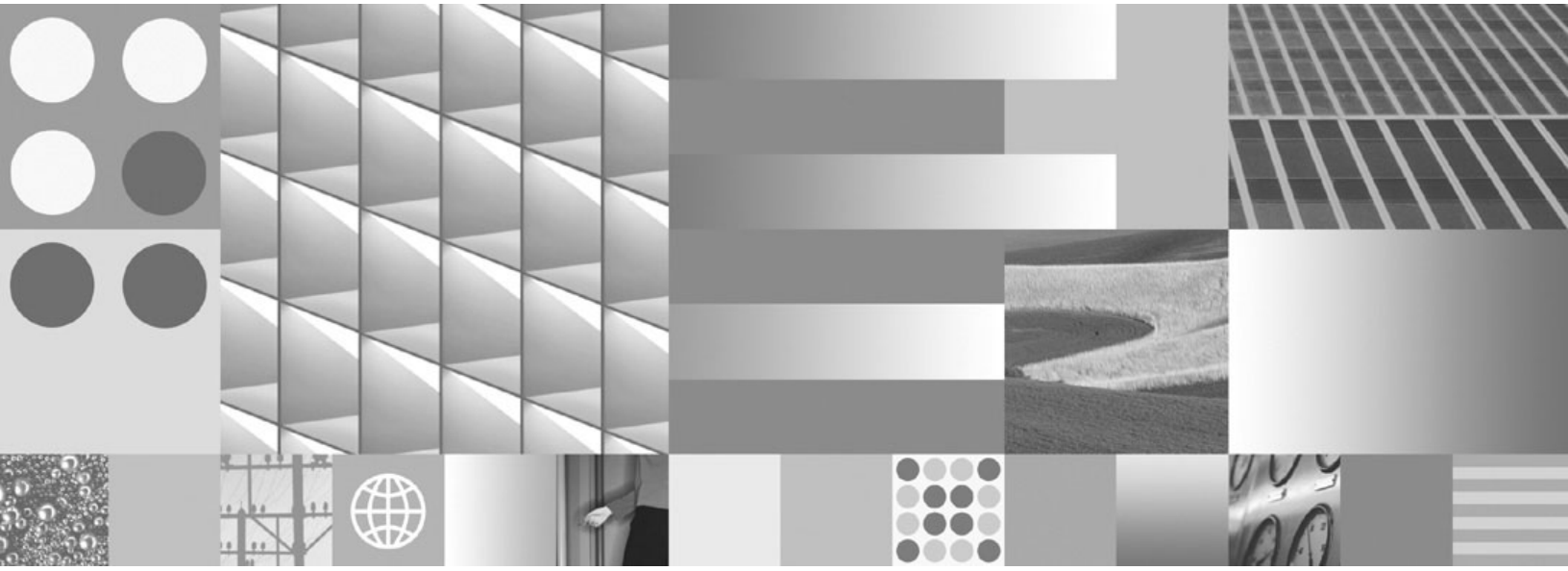


IBM Informix Dynamic Server Installation Guide for Microsoft Windows

G229-6378-00

IBM Informix

Version 11.1



IBM Informix Dynamic Server Installation Guide for Microsoft Windows

G229-6378-00

Note:
Before using this information and the product it supports, read the information in "Notices" on page B-1.

This document contains proprietary information of IBM. It is provided under a license agreement and is protected by copyright law. The information contained in this publication does not include any product warranties, and any statements provided in this publication should not be interpreted as such.

When you send information to IBM, you grant IBM a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

© Copyright International Business Machines Corporation 1996, 2007. All rights reserved.
US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

Introduction v
In This Introduction v
Informix Dynamic Server Editions v
About This Publication v
Types of Users vi
New Features in Dynamic Server, Version 11.1 vi
Documentation Conventions vi
Typographical Conventions vi
Feature, Product, and Platform Markup vii
Example Code Conventions vii
Additional Documentation viii
Compliance with Industry Standards viii
IBM Welcomes Your Comments viii

Chapter 1. Preparing to Install Dynamic Server 1-1
Upgrading the Database Server 1-1
Online Notes 1-1
Verifying System Requirements 1-1
Verifying Administrators Group Membership 1-1
Working with and Uninstalling Existing Informix Implementations 1-2
Choosing Your Installation Setup 1-2
Installable Features of Dynamic Server 1-2
Demonstration database server 1-5
Planning Role Separation 1-6
Installation Directory 1-6
Choosing between Local and Domain Installations 1-7
User informix 1-7

Chapter 2. Installing Dynamic Server 2-1
Installing IBM Informix Products 2-1
Installing Using the GUI Typical Setup 2-1
Installing Using the GUI Custom Setup 2-2
Performing a Silent Installation 2-4
Using the server.ini File 2-4
Creating a Response File for Silent Installation 2-5
Silent Installation Response Codes 2-5
Setting Up Cluster Installations 2-5
Cluster Installations 2-6
Multiple Residency 2-10
Planning for Multiple Residency 2-10
Creating a New Database Server Instance 2-10
Troubleshooting Installation Problems 2-11

Chapter 3. Post-Installation Tasks 3-1
Working with the Installation 3-1
Installation Automatic Actions 3-1
Dynamic Server Program Group 3-2
Initializing and Starting the Database Server 3-3
Stopping the Database Server 3-3
Information about Dynamic Server Configuration Parameters 3-4
Database Server Number 3-4
Database Server Name 3-4
Service Name and Port Number 3-4
Dbspace Name, Location, and Size 3-5
Default Sbspace Name, Location, Size, and Page Size 3-5

© Copyright IBM Corp. 1996, 2007

Configuring Dynamic Server Manually 3-6

Chapter 4. Modifying Dynamic Server 4-1
Altering Dynamic Server Features 4-1
Uninstalling Dynamic Server 4-1
Reinstalling the Database Server 4-2
Performing Silent Uninstallations of Dynamic Server 4-2

Appendix. Accessibility A-1
Accessibility features for IBM Informix Dynamic Server A-1
Accessibility Features A-1
Keyboard Navigation A-1
Related Accessibility Information. A-1
IBM and Accessibility A-1

Notices B-1
Trademarks B-3

Index X-1

Introduction

In This Introduction v
Informix Dynamic Server Editions v
About This Publication v
Types of Users vi
New Features in Dynamic Server, Version 11.1 vi
Documentation Conventions vi
Typographical Conventions vi
Feature, Product, and Platform Markup vii
Example Code Conventions vii
Additional Documentation viii
Compliance with Industry Standards viii
IBM Welcomes Your Comments viii

In This Introduction

This introduction provides an overview of the information in this publication, describes the conventions it uses, and introduces the Informix Dynamic Server Editions.

Informix Dynamic Server Editions

Informix Dynamic Server has three different editions to fit different business needs:

- Express Edition
- Workgroup Edition
- Enterprise Edition

Some of the differences between editions include the following areas:

- Target market
- Functionality
- Scalability
- Purchase metrics
- Platforms

For details on the differences between editions, see http://www-306.ibm.com/software/data/informix/ids/ids-ed-choice/

About This Publication

This guide explains how to install, configure, and initialize IBM Informix Dynamic Server and IBM Informix Dynamic Server with J/Foundation® on machines running Microsoft® Windows XP, Microsoft Windows Server 2003, and Microsoft Vista.

The following additional products can be installed from the installation media for Dynamic Server:

- IBM Informix BladeManager
- IBM Informix DataBlade Developer's Kit (DBDK)
- IBM Informix Connect (IConnect)
- IBM Informix Client Software Developer's Kit (CSDK)

© Copyright IBM Corp. 1996, 2007

- IBM Informix ClusterIt
- The IBM Informix JDBC Driver is available on the installation media and needs to be separately installed. For information on installing IBM Informix JDBC Driver, see the *IBM Informix JDBC Driver Programmer's Guide*.
- The IBM Informix ODBC Driver can be installed as part of IBM Informix Client SDK. For information on installing IBM Informix CSDK, see the *IBM Informix Client Products Installation Guide*.

For a description of Dynamic Server and these other IBM Informix products, see *IBM Informix Getting Started Guide*.

Informix Server Administrator (ISA) is available for download at: http://www-306.ibm.com/software/data/informix/downloads.html

OpenAdmin Tool for IDS is a PHP-based Web browser administration tool that can administer multiple database server instances using a single installation on a Web server. OpenAdmin is available for download at: http://www-306.ibm.com/software/data/informix/downloads.html

Types of Users

This publication is for database administrators (DBAs) who install IBM Informix products. This guide assumes that you are familiar with the operating procedures of your computer and with your operating system. For information about your operating system, see your Microsoft Windows documentation.

New Features in Dynamic Server, Version 11.1

For a comprehensive list of new features for this release, see the *IBM Informix Getting Started Guide*. This topic lists new features relevant to this publication.

Deployment Wizard

The deployment wizard lets you install Dynamic Server with only the features that you want. This flexibility benefits users who want to minimize the footprint on their target server, as well as users who want to embed a database in another system or application. To use the deployment wizard, select **custom** setup during installation. You can add or remove features after installation without affecting the integrity of your system. Some features are mutually dependent, and must coexist in the instance. The wizard enforces these dependencies.

Documentation Conventions

This section describes the following conventions, which are used in the product documentation for IBM Informix Dynamic Server:

- Typographical conventions
- Feature, product, and platform conventions
- Syntax diagrams
- Command-line conventions
- Example code conventions

Typographical Conventions

This publication uses the following conventions to introduce new terms, illustrate screen displays, describe command syntax, and so forth.

Convention	Meaning
KEYWORD	Keywords of SQL, SPL, and some other programming languages appear in uppercase letters in a serif font.
italics	Within text, new terms and emphasized words appear in italics. Within syntax and code examples, variable values that you are to specify appear in italics.
boldface	Names of program entities (such as classes, events, and tables), environment variables, file names, path names, and interface elements (such as icons, menu items, and buttons) appear in boldface.
`monospace`	Information that the product displays and information that you enter appear in a monospace typeface.
`KEYSTROKE`	Keys that you are to press appear in uppercase letters in a sans serif font.
>	This symbol indicates a menu item. For example, "Choose **Tools > Options**" means choose the **Options** item from the **Tools** menu.

Feature, Product, and Platform Markup

Feature, product, and platform markup identifies paragraphs that contain feature-specific, product-specific, or platform-specific information. Some examples of this markup follow:

Dynamic Server

Identifies information that is specific to IBM Informix Dynamic Server

End of Dynamic Server

Windows Only

Identifies information that is specific to the Windows operating system

End of Windows Only

This markup can apply to one or more paragraphs within a section. When an entire section applies to a particular product or platform, this is noted as part of the heading text, for example:

Table Sorting (Windows)

Example Code Conventions

Examples of SQL code occur throughout this publication. Except as noted, the code is not specific to any single IBM Informix application development tool.

If only SQL statements are listed in the example, they are not delimited by semicolons. For instance, you might see the code in the following example:

```
CONNECT TO stores_demo
...

DELETE FROM customer
   WHERE customer_num = 121
...

COMMIT WORK
DISCONNECT CURRENT
```

To use this SQL code for a specific product, you must apply the syntax rules for that product. For example, if you are using DB–Access, you must delimit multiple statements with semicolons. If you are using an SQL API, you must use EXEC SQL at the start of each statement and a semicolon (or other appropriate delimiter) at the end of the statement.

Tip: Ellipsis points in a code example indicate that more code would be added in a full application, but it is not necessary to show it to describe the concept being discussed.

For detailed directions on using SQL statements for a particular application development tool or SQL API, see the documentation for your product.

Additional Documentation

You can view, search, and print all of the product documentation from the IBM Informix Dynamic Server information center on the Web at http://publib.boulder.ibm.com/infocenter/idshelp/v111/index.jsp.

For additional documentation about IBM Informix Dynamic Server and related products, including release notes, machine notes, and documentation notes, go to the online product library page at http://www.ibm.com/software/data/informix/pubs/library/. Alternatively, you can access or install the product documentation from the Quick Start CD that is shipped with the product.

Compliance with Industry Standards

The American National Standards Institute (ANSI) and the International Organization of Standardization (ISO) have jointly established a set of industry standards for the Structured Query Language (SQL). IBM® Informix® SQL-based products are fully compliant with SQL-92 Entry Level (published as ANSI X3.135-1992), which is identical to ISO 9075:1992. In addition, many features of IBM Informix database servers comply with the SQL-92 Intermediate and Full Level and X/Open SQL Common Applications Environment (CAE) standards.

IBM Welcomes Your Comments

We want to know about any corrections or clarifications that you would find useful in our publications, which will help us improve future versions. Include the following information:

- The name and version of the publication that you are using
- Section and page number
- Your suggestions about the publication

Send your comments to us at the following e-mail address:

docinf@us.ibm.com

This e-mail address is reserved for reporting errors and omissions in our documentation. For immediate help with a technical problem, contact IBM Technical Support. For instructions, see the IBM Informix Technical Support website at http://www.ibm.com/planetwide/.

We appreciate your suggestions.

Chapter 1. Preparing to Install Dynamic Server

Complete the following tasks to prepare for installation.

- "Online Notes"
- "Verifying System Requirements"
- "Verifying Administrators Group Membership"
- "Working with and Uninstalling Existing Informix Implementations" on page 1-2
- "Choosing Your Installation Setup" on page 1-2
- "Planning Role Separation" on page 1-6
- "Installation Directory" on page 1-6
- "Choosing between Local and Domain Installations" on page 1-7

Upgrading the Database Server

For information on migrating your database server from a previous version of Dynamic Server to Version 11.1, and for information on migrating your data, see the IBM Informix Migration Guide, Version 11.1.

Online Notes

Read the online notes, which are located in the **IIF/doc** directory or at http://publib.boulder.ibm.com/infocenter/idshelp/v111/topic/com.ibm.relnotes.doc/relnotes.htm.

Verifying System Requirements

Verify that your computer meets the minimum installation requirements:

- Windows® XP, Windows Server 2003, or Windows Vista
- 128 megabytes of RAM (minimum); 256 megabytes (recommended)
- Sum of RAM and swap file must be 256 megabytes (minimum); 512 megabytes (recommended)
- Destination drive with a Windows file system (NTFS)
- Total of 350 megabytes needed to install the product and all features to have a working system

  The installation program determines, at run time, the amount of disk space required.

Verifying Administrators Group Membership

Verify that you are logged in as a member of the Windows Administrators group.

For information on how to create groups and add users to groups, see your Windows documentation.

© Copyright IBM Corp. 1996, 2007

Working with and Uninstalling Existing Informix Implementations

Do not install a newer version of Dynamic Server in the same location where an earlier version of the product exists to avoid conflicts between directories, **.dll** files, registry entries, and other Informix-related services. If you wan to run different versions of Dynamic Server on the same host machine, keep the installations in different paths.

To uninstall versions of Informix products released before 11.10, see the appropriate section of the uninstalling chapter.

To uninstall version 11.10 Dynamic Server and any of its components, refer to Chapter 4, "Modifying Dynamic Server," on page 4-1.

Choosing Your Installation Setup

Using the installation application, you can choose a typical or custom setup for loading Dynamic Server and other products to your system. Typical setup installs the full Dynamic Server product, while custom setup lets you exclude product features in order to minimize the installation footprint (disk size).

Installation Application Setup Types

The installation wizard has two setup options:

- **Typical installation:** A typical installation requires the most disk space and memory. It is the recommended installation for most database servers. A typical installation setup loads your server with Dynamic Server (the base server) and all associated feature sets (components).
- **Custom installation:** A custom installation allows you to perform advanced installation steps and configuration of the database server. This setup lets you pare down the components and features loaded onto your system for the sake of reducing the installation disk size.

Both setup options are available via the following installation modes:

- graphical user interface (GUI) panels
- silent installation **(Custom setup is recommended)**

Which setup type you choose depends your system architecture, your technical expertise, and the needs of your implementation.

If you expect to replicate your installation configuration in other directories, read the documentation on generating a response file. You can use the GUI mode to generate a response file that can be used to configure other installations via silent installation.

Installable Features of Dynamic Server

You can install the following features with the base server: Dynamic Server Extensions, Global Language Support, Backup and Restore, Demos, Data-Loading Utilities, Enterprise Replication, and Administrative Utilities.

Base Server

The database server for basic DBA operations without optional extensions, libraries, or utilities. The approximate size of this installation can range from 100 to 250 megabytes (MB). The base server alone does not include Global Language Support, which is a separate component as of release 11.10.

Support for the DRDA® protocol is included in the Base Server. To use the Distributed Relational Database Architecture™ (DRDA) support functionality with IBM Data Server .NET Provider or IBM Data Server JDBC Driver, you must obtain and install IBM Data Server .NET Provider or IBM Data Server JDBC Driver.

Features

The following list describes features in Dynamic Server, version 11.10. You can view the size of each component and feature on your system before you actually proceed with installation when you select the component or feature in the GUI setup.

Database Server Extensions
Database administration tools and programming extensions

J/Foundation
For writing user-defined routines in the Java™ programming language

Built-in DataBlade™ Modules
For providing large object location management, MQ transaction support, binary user-defined types, the hierarchical node data type, basic text search, and Web Feature Services for spatial data

Conversion and Reversion Support
Framework required for migrating to and from other versions of the database server

Global Language Support
The feature files to support languages, cultural conventions, and code sets. These files are not required if your default locale uses American English, which is the default language in Dynamic Server when no GLS feature is installed.

West European and Americas
Danish, Dutch, English, Finnish, French, German, Icelandic, Italian, Norwegian, Portuguese, Spanish, and Swedish locales

East European and Cyrillic
Czech, Polish, Russian, and Slovak locales

Chinese
Traditional Chinese and simplified Chinese locales

Korean
Korean locales

Japanese
Japanese locales

Other Thai locales

Backup and Restore
Feature utilities for backing up and restoring database server data

ON-Bar Utilities
onbar is an editable shell script that starts the onbar-driver. Use the onbar script , as well as its related commands, to customize backup and restore operations and check the storage-manager version.

Informix Interface for Tivoli® Storage Manager
For implementing XBSA functions that use Tivoli Storage Manager with ON-Bar

Informix Storage Manager
For managing external storage devices and media that contain backups

archecker Utility
For verifying backups and restoring portions of a database, a table, a portion of a table, or a set of tables

Demos
Demonstration databases and examples

Data-Loading Utilities
For efficient loading and unloading of data in certain configurations

onunload and onload Utilities
For moving data quickly from one operating system or database server to another without changing the database schema. Use the onunload utility to unload data from the specified database or table onto a tape or a file on disk in disk-page-sized units. Use the onload utility to re-create the database or the table from the tape or file that was created by the onload utility.

dbload Utility
For loading data into databases or tables that IBM Informix products created. Use the dbload utility to transfer data from one or more text files into one or more existing tables.

High-Performance Loader (HPL)
For loading or unloading large quantities of data efficiently to or from a database. Use HPL to exchange data with tapes, data files, and programs, and convert data from these sources into a format compatible with Informix databases. Also use HPL to manipulate and filter the data as you perform load and unload operations.

Enterprise Replication
For replicating data between Dynamic Server database servers

Administrative Utilities
Additional administrative utility feature sets

Miscellaneous Monitoring Utilities
For displaying the logical log by using the onlog utility or managing the database server with SNMP by using the onsnmp utility.

Auditing Utilities
For administering audit masks, trails, and other auditing information on the database server by using the onaudit and onshowaudit utilities.

Database Import and Export Utilities
For unloading a database into text files, creating and populating a database from those text files, or unloading a database schema into a text file

Demonstration database server

You can create a demonstration database server to start using and learn more about Dynamic Server.

Options in the Install Application

The install application asks if you want to create a demonstration database server instance.

- **Yes**: As part of the **Typical** installation, choosing this option allows you to accept the default **onconfig.demo** to build the demonstration database server. After installation, the database server is initialized automatically.
- **No**: This is an option in a **Custom** installation. If you choose this option, then you need to configure and initialize the database server manually after installation is complete.

onconfig File

The installed database server requires the presence of a configuration file (**onconfig** file), with certain environment variables pointing to the file, in order for you to begin using Dynamic Server. Creating the demonstration database when you run the install application can automate establishment of a valid configuration file. By accepting the demonstration database server that is available in the installation media, you can have a working **onconfig** file installed on your host server.

Setup of the Demonstration Dynamic Server

The following information about the default demonstration database server can help you decide whether to let the install application create it automatically:

- The demonstration database server should have on your system a server number between 0 and 255 that is not shared with another instance. If all the valid server numbers are used by other instances and you want to install the demonstration server, it is recommended that you make one of the server numbers available only for the Dynamic Server demonstration instance before launching the installation.
- The installation application automatically searches for and assigns a unique, unused server number for your demonstration database server. You can also specify a server number between 0 and 255. If you enter a server number that is used by another instance, the installation application does not accept it and does one of the following:
  1. If a server number between 0 and 255 is unused on your system, the demonstration database server is assigned this number.
  2. If the installation application is unable to find another unused server number, then the number that you provided will be used.
- If you select the shipped **onconfig** file, the database name will be named `demo_on` and the ONCONFIG environment variable is set to the sample **onconfig** file located at **%INFORMIXDIR%/etc/onconfig.***demo_server_name*.
- When the installation program initializes the demonstration database server, three databases are built automatically: **sysmaster**, **sysuser**, and **sysutils**.

- The message log regarding installation of the demonstration database server is located in **%INFORMIXDIR%/*demo_server_name*.log**.

Planning Role Separation

You must choose Custom installation setup to enable role separation.

Role separation provides increased database security because the database server splits administrative tasks into mutually exclusive roles. If you do not enable role separation, the **Informix-Admin** group performs all administrative tasks. For detailed information about the role separation feature, see the *IBM Informix Security Guide*.

You cannot turn off role separation after you enable it. To remove role separation from your system, you must use the uninstaller to remove all database instances and related files. and then reinstall the database server without role separation.

If you choose to enable role separation during installation, you are prompted to create groups and users and add the users to the corresponding groups.

Table 1-1. Role Separation

Default Group Name	Role Category	Role Definition
Informix-Admin	General Database Administration	Performs general administrative tasks, such as archiving and restoring data, monitoring use and performance, and tuning the system.
ix_dbsso	Database System Security Officer	Maintains the security of the database server. Functions of this role include audit adjustment and changing security characteristics of storage objects. Creation of this user role requires selection of a password during installation.
ix_aao	Auditing Analysis Officer	Audits the records of specific types of database activities. If someone attempts to circumvent or corrupt the security mechanism of the database, these actions can be traced. Creation of this user role requires selection of a password during installation.
ix_users	Database Users	Accesses the database to perform end-user tasks. Only users who are designated as members of the **ix_users** group can access the database.

During installation, you can replace these default users and groups with existing users or groups.

Installation Directory

The installation directory is the location in which you want the database server files to reside. The drive on which the directory exists must be formatted using NTFS. IBM Informix software refers to this installation directory as **INFORMIXDIR** and often uses this value to set the **%INFORMIXDIR%** environment variable.

However, there is no need to create **INFORMIXDIR** prior to installation. You can provide the installation directory during the installation process; otherwise, the installation application will create a directory.

The installation program prompts you for different information, depending on the type of installation that you are performing:

- **First-Time Installations**

  If you previously created the **INFORMIXDIR** directory, it is used as the default installation directory.
- **Upgrades and Reinstallations**

  If you have already installed a database server, the installation directory is the directory where the database server is installed. If you plan to perform an upgrade or reinstall in the same program group, select this directory as the installation directory.
- **Multiple Installations**

  If you have already installed the database server, the installation directory is the directory where the database server is installed. This installation of the database server has a corresponding Informix Dynamic Server program group on the **Start > Programs** menu.

Choosing between Local and Domain Installations

You can install locally or in a domain.

Local Installation

If you do not plan to have workstations access a domain controller, install the database server on a local computer. For a local installation, you should have administrative privileges.

Domain Installation with Domain Administrator Privileges

Domain installation is useful if you run the database server on several computers and want a central security mechanism. If several of your computers belong to the same domain, and therefore share the same primary domain controller or domain controllers, perform a domain installation on these computers. To install in a domain, you must have administrative privileges and your computer must already belong to a domain. Run the installation program and choose the Install in Domain option when the installation wizard prompts you.

User informix

User **informix** is a user account with main authority over an Dynamic Server instance.

User **informix** is required because it has the unique user identifier (UID) to manage and maintain Dynamic Server instances and databases on the host server. The password for this user account must be protected. Only let trusted database and security administrators log in as user informix.

If you are installing Dynamic Server for the first time on your system, the installation program prompts you to create the **informix** user by providing a password. If the informix user already exists on your system, the installation program prompts you to confirm the password.

Important: The database server will not start if password standards for either user **informix** or end users do not conform to local security standards.

Chapter 2. Installing Dynamic Server

The following topics explain your Dynamic Server and IBM Informix products installation choices.

- "Installing IBM Informix Products"
- "Installing Using the GUI Typical Setup"
- "Installing Using the GUI Custom Setup" on page 2-2
- "Performing a Silent Installation" on page 2-4

Installing IBM Informix Products

Dynamic Server for Windows includes a Windows launchpad, which is a graphical interface with the options to view this publication, the release notes or the Information Center, start the installation, or browse the installation media. The launchpad will start automatically when the CD is inserted. To access the launchpad from a downloaded product, from the main directory, select **launch.exe**.

The IBM Informix JDBC Driver is available on the installation media and needs to be separately installed. For information on installing IBM Informix JDBC Driver, see the *IBM Informix JDBC Driver Programmer's Guide*.

The IBM Informix ODBC Driver can be installed as part of IBM Informix Client SDK. For information on installing IBM Informix Client SDK, see the *IBM Informix Client Products Installation Guide*.

Installing Using the GUI Typical Setup

Launch the GUI installation application to complete a typical installation setup of Informix products, which will load Dynamic Server with all its components and features.

Typical setup automates the installation by providing default settings for the following:

- server name
- server number
- port
- user account (**informix**)
- general administrative group (**Informix-Admin**)

To install Dynamic Server using GUI Typical Setup:

1. **Downloaded installation media:** Extract the files of the download using your decompression software. **CD installation:** Launch the CD.
   - If the GUI installation program starts automatically, skip to step 3.
2. If the **launch.exe** file does not appear in the directory that first opens, go to the **IIF** folder and open **setup.exe**.
3. Select the products you want to install.
4. Read the license agreement. You must accept it to proceed.
5. Select the **Typical** option.

© Copyright IBM Corp. 1996, 2007

6. Enter user account information. You will need to enter your system's user **informix** password for these GUI windows. If no user **informix** exists yet, the installation wizard creates one and will require you to create a password for it.

   Enter a password and record it in a secure location.
7. Specify the installation directory if you do not want to accept the default destination path that the GUI displays.

   The destination drive must be formatted with a Windows file system (NTFS).
8. Review your installation settings. A panel that summarizes your installation settings appears just before you load Informix files to your system. This panel lets you go back to previous GUI windows to change settings.
9. Select **Next** to install Informix Dynamic Server. The **Typical** installation program configures the database server. For information on changing the configuration or configuring a database server manually, see "Information about Dynamic Server Configuration Parameters" on page 3-4 and "Configuring Dynamic Server Manually" on page 3-6.

The installation creates a log file in **%INFORMIXDIR%\logs** which contains installation activity of the Dynamic Server installation. In addition, there is a manifest file (**%INFORMIXDIR%\etc\manifest.inf**). This other ″log file″ can help you see quickly what features and components are currently installed. Do not modify the content of this file.

The **informix** user account, under which the database server runs, is assigned to the **Informix-Admin** group.

Installing Using the GUI Custom Setup

Custom installation in GUI mode lets you exclude some Dynamic Server features and offers you other ways to configure installation variables for the needs of your system.

Use the GUI custom setup if you want to generate a response file for replicating the installation setup on other instances in silent mode. The silent installation process will function in this way if you choose to install Dynamic Server only (that is, you cannot choose any other Informix products available on the installation media). Read the topics ″Performing a Silent Installation″ and ″Creating a Response File″ in this installation guide before you start the GUI wizard if you want to generate a response file.

To install Dynamic Server using GUI Custom Setup:

1. **Downloaded installation media:** Extract the files of the download using your decompression software. **CD installation:** Launch the CD.
   - If the GUI installation program starts automatically, skip to step 3.
2. If the **launch.exe** file does not appear in the directory that first opens, go to the **IIF** folder and open **setup.exe**.
3. Select the products you want to install.
4. Read the license agreement. You must accept it to proceed.
5. Select **Custom** installation setup.
6. Specify the installation directory if you do not want to accept the default destination path that the GUI displays.

   The destination drive must be formatted with a Windows file system (NTFS).
7. Select the features you want to install.

a. Components are at the top level of the tree-nesting hierarchy.
b. Click the + character by component feature sets–features grouped together by similar functionality–to view individual features. The components without + characters next to them do not have individual features.
c. Deselect components and features that you do not want to install. The wizard enforces dependencies among features and all components. If you cannot configure the selected/deselected

clusterIT_a in the primary node directory, and one for **clusterIT_b** in the secondary node directory where the ClusterIT executables were installed.

Multiple Residency

You can set up multiple independent database server environments on the same computer

Complete the following tasks to set up multiple residency.

- "Planning for Multiple Residency"
- "Creating a New Database Server Instance"

Planning for Multiple Residency

When you plan for multiple residency on a computer, consider the following factors:

- Storage space

  Each database server must have its own unique storage space. You cannot use the same disk space for more than one instance of a database server. When you prepare an additional database server, you need to repeat some of the planning that you did to install the first database server. For example, you need to consider these questions:

  - Will you use mirroring? Where will the mirrors reside?
  - Where will the message log reside?
  - Can you dedicate a tape drive to this database server for its logical logs?
  - What kind of backups will you perform?
- Memory

  Each database server has its own memory. Can your computer handle the memory usage that an additional database server requires?

Creating a New Database Server Instance

Before you set up multiple residency, you must install one database server as described in Chapter 2, "Installing Dynamic Server," on page 2-1. It is not necessary to install more than one copy of the database server binary files. All instances of the same version of the database server on one computer can share the same executable files.

To set up multiple residency, use the Server Instance Manager. To use the Server Instance Manager program, you must have administrative privileges on the database server. However, local administrator privileges are sufficient, even if the database server was installed for domain use.

Before you use the Server Instance Manager, verify that you are a member of the **Informix-Admin** group. For more information, see "Verifying Administrators Group Membership" on page 1-1.

To create a new database server instance

1. Choose **Start > Programs > IBM Informix Dynamic Server 11.10 > Server Instance Manager**.
2. Select the Installation Method, and click **Create New** to create a new instance of the database server.
3. Follow the prompts.

After you enter the required information, the Server Instance Manager installs services, records environment variables, updates the registry, and creates an **onconfig** file for the new database server instance.

Troubleshooting Installation Problems

This section describes some common installation problems and the corresponding solutions for users who receive their product materials directly from IBM. You can find more information about Client SDK and IConnect installation issues in the *IBM Informix Client Products Installation Guide* documentation.

You can find information that will help identify and resolve installation errors in the Dynamic Server log file in the following location:

```
%INFORMIXDIR%\logs\IDS_Install_date_time.log
```

If any of the problems described in this section persist, contact IBM Technical Support.

- *Problem*. If you enter an invalid database server name, you receive the following message:

  ```
  The database server name you entered is not valid. Please
  note the following limitations: a database server name
  cannot exceed 128 characters; it can only contain letters,
  numbers, and underscores; and it must begin with a letter.
  ```

  Solution. Enter a different name and note the limitations stated in the message.

- *Problem*. If you have insufficient virtual memory for the installation, you receive the following message:

  ```
  This installation of Dynamic Server requires number MB of
  free page file space. After you install this product,
  increase your page file size to properly use your virtual
  memory with this product.
  ```

  Solution. For information about how to increase the size of your page file, refer to your Windows documentation.

- *Problem*. If you do not have the correct privileges to run the install program, you receive the following message:

  ```
  You do not appear to be an administrator. In order to run
  this program, you must belong to the Administrators group
  on local computer.
  ```

  Solution. Use the administrator account to log on or contact your system administrator to add your user account to the Administrators group.

Chapter 3. Post-Installation Tasks

Review the following information after installing Dynamic Server.

- "Working with the Installation"
- "Dynamic Server Program Group" on page 3-2
- "Initializing and Starting the Database Server" on page 3-3
- "Information about Dynamic Server Configuration Parameters" on page 3-4

Working with the Installation

The installation sets up a database server that is ready to use and can run on your system automatically. But you may still want to perform some basic enhancements before you put the server in production. These tasks show you ways to control the way Dynamic Server runs on your system.

If have done a more *advanced* installation of Dynamic Server, these post-installation tasks might be *required* in order to work with the database server.

Tip: When you initialize a server, a shortcut is added to the **Start** menu. To run commands for an initialized server, click **Start > All Programs > IBM Informix Dynamic Server 11.10 >** ***servername***.

The following tasks are covered in the next sections of the documentation:

- Starting the database server manually.
- Setting up the database server to start whenever Windows is launched.
- Stopping the database server.
- Configuring the storage manager to use ON-Bar backups and restores.

  For more information, see the *IBM Informix Storage Manager Administrator's Guide*.
- Configuring your database server to use a locale other than the default Global Language Support (GLS) locale, U.S. English.

  The GLS feature allows you to create databases that use the diacritics, collating sequence, and monetary and time conventions of the language that you select. For more information, see the *IBM Informix GLS User's Guide*.

Installation Automatic Actions

Before you begin manual post-installation tasks, it is helpful to know some of the major tasks the installation application has done. A typical installation (and possibly a custom installation, depending on your choices during setup) performs the following actions to make the database server ready to run on Windows:

- Configured and installed the database server as a Windows service.
- Created an **informix** user account and an **Informix-Admin** administrative group.

  (*Custom installations*: If you enabled role separation when you installed the database server, you could have changed the name of the **Informix-Admin** group.)
- Automatically assigned the **informix** user account, under which the database server runs, to the **Informix-Admin** group and to the Windows Administrators group.

© Copyright IBM Corp. 1996, 2007

- Granted the following advanced privileges to the **informix** user account:
  - Logon as service
  - Act as part of the operating system
  - Increase quotas
  - Replace a process level token

Dynamic Server Program Group

After you install the database server, to access the following items on the database server program group, click **Start > Programs > Informix Dynamic Server 11.10.** The following table describes the program group menu.

Table 3-1. Dynamic Server Program Group

Menu Item	Description
Documentation	Contains shortcuts to product documentation: **Information Center** A Web-based, powerful online interface containing the technical information about the IBM Informix products. Requires a connection to the Internet. If you do not have a connection to the Internet, you can find the product documentation on the installation media. **Release Notes** Describes new features of IBM Informix products. This file also contains information about any changes to function from previous releases, as well as any known problems and their workarounds. Read this file before you use the database server.
Error Messages	Provides a complete list of all of the error messages and their corrective actions.
Modify Installation	Opens a wizard for modifying the installation: **Modify** Alter Dynamic Server components and features. **Repair** Fix any corrupt or missing binaries for installed features. **Remove** Remove all features of a working installation and, optionally, remove related group and user IDs. This selection launches the uninstallation application.
Server Instance Manager	Creates and configures new server instances and removes configured server instances.
server-name	Opens a Command Prompt window for an initialized database server instance. You can use that window to run DB-Access and certain command-line utilities such as **onstat**, **oncheck**, and **onspaces**. (The **oninit** utility is designed to be started by a service rather than from this window.) If you have more than one database server instance, there is a shortcut menu for each of them.

Initializing and Starting the Database Server

After the database server is initialized once, you can start it manually or set it to start automatically when Windows starts.

You can initialize and start the server from the Control Panel interface or from the command line. If the server was initialized during installation, you do not need to initialize it again.

Important: To complete these tasks from the Control Panel, you must be a member of the Windows Administrators group. To complete them from the command line, you must be a member of the **Informix-Admin** group. Do not use the **oninit** utility to start the database server. For detailed information about how to start the database server, see the *IBM Informix Administrator's Guide*.

To start the database server by using the Control Panel:

1. Choose one of the following options:
   - **Start > Control Panel > Administrative Tools**
   - **Control Panel > Administrative Tools > Component Services > Console Root > Services (Local) (for a Domain Controller)**
2. Double-click **Services**.
3. Double-click **Informix IDS -** ***server_name*** from the list and specify the appropriate start options or accept the default ones. Verify the options on the General page of the dialog box:
   - If you want database server to start automatically when Windows starts, make sure that **Startup type** is set to Automatic. The database server is set to start automatically if you installed with a custom setup, or if you initialized the database server during a typical setup.
   - If the server is not initialized yet, type **-iy** in the **Start Parameters** field. This option creates and initializes the root dbspace. You do not need to do this if you chose to initialize the server during installation. The server needs to be initialized only once before you can start it.
   - Click OK to save your options.
4. Click **Start**.

Alternatively, to perform the tasks from the command line, click **Start > Run** and run the appropriate command from %INFORMIXDIR%\bin:

- To start a database server that was already initialized once, run this command:

  ```
  starts server_name
  ```

- To initialize and then start the database server, run the command with the `-iy` option.

  ```
  starts server_name -iy
  ```

Stopping the Database Server

To stop the database server from the Control Panel, you must be a member of the Windows Administrators group. To stop the database server from the command line, you must be a member of the **Informix-Admin** group.

To stop the database server:

- From the Control Panel:

1. Choose **Start > Control Panel > Administrative Tools**.
2. Double-click **Services**.
3. Select **Informix IDS - *server_name*** from the **Service** list box.
4. Click **Stop**.

- From the Command Prompt window:
  1. Click **Start > Programs > IBM Informix Dynamic Server 11.10** to display the program group for the database server.
  2. Click the database server instance (*server_name*) to display the Command Prompt window.
  3. In the Command Prompt window, type:

     ```
     onmode -ky
     ```

Information about Dynamic Server Configuration Parameters

The following information is provided for advanced users who either need to configure the database server manually or want to change the configured database server.

Database Server Number

The database server number uniquely identifies a database server if more than one instance of the database server is installed. If only one instance of the database server is installed, set this number to `0`. The database server number that you specify is the value for the SERVERNUM configuration parameter.

The database server uses configuration parameters, set in the **onconfig** file, during initialization. For more information about configuration parameters and the onconfig file, see the "Configuration Parameters" chapter of the *IBM Informix Dynamic Server Administrator's Reference*.

To determine how many instances of the database server are installed, run the Server Instance Manager program. To run the Server Instance Manager program, choose **Start > Programs > IBM Informix Dynamic Server 11.10 > Server Instance Manager**.

Database Server Name

The database server name identifies the database server to client applications. In most cases, you can choose the default value. The database server name that you specify is the value for the DBSERVERNAME configuration parameter.

Database server names must begin with a letter and can contain only letters, numbers, and the underscore character.

Service Name and Port Number

Specify the service name and port number for the TCP/IP network protocol.

The service name specifies the servicename entry and the port number specifies the port entry for the database server in the **sqlhosts** registry.

If only one database server instance exists on the computer, the installation program provides default values. It is recommended that you use these default values. For subsequent database server instances, you must provide unique values.

Dbspace Name, Location, and Size

A dbspace is a logical collection of chunks to which databases and tables are assigned.

During installation, the root dbspace is created automatically. You can configure an additional data dbsapce, mirror location, or smart blob drive.

Specify the location and disk-space size for the dbspace:

- **Primary Data Location**

  By default, the primary data location is the current drive. The installation program displays the amount of available disk space; the default dbspace size is 100 megabytes.
- **Smart blob Drive**

  A default smart blobspace can be configured optionally. The default size is 100 megabytes.
- **Mirror Location**

  The mirrored location serves as the backup area if the primary storage device fails. The mirrored location should be the same size as the primary location and should be in a different drive. The data dbspace and the smart blob can be mirrored on the same drive.

  This mirrored location is also the value of the MIRRORPATH configuration parameter.

Default Sbspace Name, Location, Size, and Page Size

An sbspace is a logical storage area that the database server uses to store smart large objects (CLOB and BLOB data). The default sbspace is the location in which the database server stores a smart large object if you do not specify an sbspace name when you create the smart large object. The database server also uses the default sbspace to store user-defined statistics.

Specify the primary and mirror data-storage location for the default sbspace:

- **Primary Data Location.** By default, the Primary Data Location of the sbspace is the current drive and must have a minimum of 100 megabytes. The installation program displays the amount of available disk space. This location also specifies the value of the SBSPACENAME configuration parameter.
- **Mirror Location.** The mirrored location serves as the backup area if the primary storage device fails. The mirrored location should be the same size as the primary location and should be in a different drive.
- **Size.** The size of the sbspace should be at least 100 megabytes.
- **Page Size.** The size of the sbpage should approximate the size of the most frequently occurring smart large object that the sbspace holds. The default is one page.

For more information about sbspaces, see the *IBM Informix Administrator's Guide*.

Shared Server Definition Computer

Specify the computer on which to update the **sqlhosts** registry information with the shared server definition for the new database server instance and administrative tools as follows:

- The local computer on which you are installing the database server (default)
- Another computer in the network that serves as a central, shared repository of **sqlhosts** information for multiple database servers in the network.

  If you specify another computer on the network, you must set the **INFORMIXSQLHOSTS** environment variable on your local computer to the name of the computer that stores the **sqlhosts** information.

Configuring Dynamic Server Manually

To configure Dynamic Server manually after installation, see the information in .

To configure the database server:

1. Specify the database server number.
2. Specify a name for the database server.
3. Specify the service name and port number for the TCP/IP network protocol.
4. If you selected the **Custom installation** option:
   a. Specify a name for the root dbspace.
   b. Specify the primary and mirror storage location and disk-space size for the root dbspace.
   c. Specify the name of the default sbspace.
   d. Specify the primary and mirror storage location and disk-space size for the default sbspace.
5. Specify the computer to use for shared server definition for your database server and administrative tools.

   The installation program installs services on the computer and configures the database server.
6. If you configured a new instance of the database server, you are prompted to initialize the database server:
   - Click **Yes** to initialize the database server and the root dbspace.
   - Click **No** to skip initialization.

   If you skip initialization, you must manually start the database server and create the storage later. For more information on manual initialization, see "Initializing and Starting the Database Server" on page 3-3.

   Note: Database server initialization might take several minutes.

   A message indicates that the database server was successfully installed.
7. If you selected other products to install, the installation prompts you to configure these products.
8. To update the members of the **Informix-Admin** group, log out and log back in. This step enables you to run the IBM Informix administration tools.
9. Restart your computer, if prompted.

Chapter 4. Modifying Dynamic Server

To uninstall Dynamic Server 11.10 or modify any of its specific features, access the ″uninstaller″.

Review the following information to uninstall or modify Dynamic Server.

- "Altering Dynamic Server Features"
- "Uninstalling Dynamic Server"
- "Reinstalling the Database Server" on page 4-2
- "Performing Silent Uninstallations of Dynamic Server" on page 4-2

Altering Dynamic Server Features

To alter the features and components of your installation, Dynamic Server 11.10 provides a dynamic GUI that detects what features are on your server. This InstallShield wizard not only lets you select and deselect features, but also repairs any flawed binaries among installed features.

To alter the features of your Dynamic Server installation:

- Select **Start > Programs > IBM Informix Dynamic Server 11.10 > Modify Installation** or launch the GUI maintenance wizard by opening the **Add/Remove Programs** feature of the Control Panel. Select the **Change** button
- Select the **Modify** button to alter Dynamic Server components and features.

  The wizard for modifying Dynamic Server features and components enforces certain dependencies. For example, if you select a feature for removal but do not select other components that rely on this feature, the wizard does not let you perform this.
- Select the **Repair** button to fix any corrupt or missing binaries for installed features.
- Select the **Remove** button to remove all features, including all required components for a working installation. This selection launches the uninstall program.

Uninstalling Dynamic Server

Important: Back up your Dynamic Server system before you uninstall.

To uninstall the database server:

1. Select **Start > Settings > Control Panel > Add/Remove Programs.**
2. Select **IBM Informix Dynamic Server 11.10** and click **Remove**
3. Choose from the following options:
   - Server action
     - Retains all databases, but removes all server binaries.

       This option is typically used when you upgrade the product because it facilitates removing server binaries while preserving dbspace.
     - Removes server binaries and all databases associated with them.

       This option removes all installed binaries and dbspaces. Use this option with caution.

© Copyright IBM Corp. 1996, 2007

- Other actions

  Important: Any groups and user accounts that you used for this installation will be removed in both local and domain installations.

  – Remove all user IDs that were created when the product was installed.

    If you do not remove the user IDs, you must use those user IDs and their passwords when you reinstall the product.

  – Remove all groups that were created when the product was installed.

Reinstalling the Database Server

If an earlier version of the database server is already installed at a specific instance, the installer provides options either to upgrade or to complete a fresh installation at a different location. See "Working with and Uninstalling Existing Informix Implementations" on page 1-2

Performing Silent Uninstallations of Dynamic Server

You can remove Dynamic Server without interactively providing options. To do so, you must generate a response file for the uninstallation application. Ensure that you have access to the original media files for this task.

To perform a silent uninstallation:

1. To uninstall an existing installation and record a response file, use this command:.

   ```
   setup.exe -r -f1"X:path\uninstall.ini"
   ```

   The command records the uninstallation options as you perform them and stores them in a response file. If you do not specify the location of the response file, by default the uninstallation sequence is saved in %WINDIR%\setup.iss.

2. To perform the silent uninstallation on another system, or to uninstall from the same system at a later time, specify the appropriate response file with this command:

   ```
   setup.exe -s -f1"X:path\uninstall.ini"
   ```

Appendix. Accessibility

IBM strives to provide products with usable access for everyone, regardless of age or ability.

Accessibility features for IBM Informix Dynamic Server

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use information technology products successfully.

Accessibility Features

The following list includes the major accessibility features in IBM Informix Dynamic Server. These features support:

- Keyboard-only operation.
- Interfaces that are commonly used by screen readers.
- The attachment of alternative input and output devices.

Tip: The IBM Informix Dynamic Server Information Center and its related publications are accessibility-enabled for the IBM Home Page Reader. You can operate all features using the keyboard instead of the mouse.

Keyboard Navigation

This product uses standard Microsoft Windows navigation keys.

Related Accessibility Information

IBM is committed to making our documentation accessible to persons with disabilities. Our publications are available in HTML format so that they can be accessed with assistive technology such as screen reader software. The syntax diagrams in our publications are available in dotted decimal format.

You can view the publications for IBM Informix Dynamic Server in Adobe Portable Document Format (PDF) using the Adobe Acrobat Reader.

IBM and Accessibility

See the *IBM Accessibility Center* at http://www.ibm.com/able for more information about the commitment that IBM has to accessibility.

© Copyright IBM Corp. 1996, 2007

Notices

IBM may not offer the products, services, or features discussed in this document in all countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

IBM World Trade Asia Corporation Licensing
2-31 Roppongi 3-chome, Minato-ku
Tokyo 106-0032, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:
INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created

© Copyright IBM Corp. 1996, 2007

programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation
J46A/G4
555 Bailey Avenue
San Jose, CA 95141-1003
U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this information and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement, or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

All IBM prices shown are IBM's suggested retail prices, are current and are subject to change without notice. Dealer prices may vary.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. You may copy, modify, and distribute these sample programs in any form without payment to IBM for the purposes of developing, using, marketing, or distributing application programs conforming to IBM's application programming interfaces.

Each copy or any portion of these sample programs or any derivative work, must include a copyright notice as follows:

> © (your company name) (year). Portions of this code are derived from IBM Corp. Sample Programs. © Copyright IBM Corp. (enter the year or years). All rights reserved.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

Trademarks

The following terms are used in one or more IBM Informix product publications and the terms are trademarks of International Business Machines Corporation in the United States, other countries, or both:

AIX	OS/2
AnalystStudio	OS/390
C-ISAM	OS/400
Cloudscape	Passport Advantage
DataBlade	ProjectConsole
DB2	Rational
DB2 Connect	Rational Suite
DB2 Universal Database	Rational Unified Process
Distributed Relational Database Architecture	RedBack
Domino	Red Brick
DRDA	RequisitePro
Dynamic Connect	RETAIN
IBM	SQL/DS
Informix	SystemBuilder
Lotus	Tivoli
Lotus Notes	TME 10
MQSeries	UniData
NetView	UniVerse
Notes	WebSphere
NUMA-Q	z/OS

Adobe, Acrobat, Portable Document Format (PDF), and PostScript are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, other countries, or both.

Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Java and all Java-based trademarks and logos are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Other company, product, or service names may be trademarks or service marks of others.

Index

Special characters

.jar file 1-2
%INFORMIXDIR%
  environment variable 1-6

A

accessibility A-1
  keyboard A-1
  shortcut keys A-1
Accessing database server program group 3-1
Accounts
  informix user 3-1
Administrative
  groups
    adding members to 1-1
  privileges, Server Instance Manager 2-10
Administrative Utilities 1-3
Administrator
  privileges, incorrect 2-11
Administrators group
  adding members 1-1
  incorrect privileges 2-11
  requirements for installing 1-1
Advanced privileges, granted to informix user 3-1

B

Backup and Restore 1-3
Backups
  and multiple residency 2-10
  configuring storage manager 3-1
base server 1-2, 1-3
BladeManager 1-3
BLOB data 3-5

C

CLOB data 3-5
Cluster
  installation
    on multiple nodes 2-6
Cluster Administrator, definition of 2-6
ClusterIT, installing in a Microsoft cluster environment 2-6
Command line
  initializing database server 3-3
  starting database server 3-3
  stopping database server 3-3
components 1-2, 1-3
configuration file
  for demonstration database server 1-5
Configuration parameters
  DBSERVERNAME 3-4
  MIRRORPATH 3-5
  SBSPACENAME 3-5
  SERVERNUM 3-4
Control Panel
  initializing database server 3-3
  starting database server 3-3
Control Panel *(continued)*
  stopping database server 3-3
Conversion and Reversion Support
  Distributed Relational Database Architecture (DRDA) 1-3
Creating
  database server instances 2-10
custom installation 1-2

D

Data-Loading Utilities 1-3
Database server name
  description of 3-4
  error message 2-11
  fixing invalid 2-11
  limitations 2-11
  specifying 3-6
Database server number
  description of 3-4
  specifying 3-6
Database servers
  creating new instances 2-10
  fresh installation 4-2
  initializing 3-6
  installing
    multiple instances 1-6
    on multiple nodes 2-6
  program group
    accessing 3-1
  reinstalling 4-2
  silent uninstallation 4-2
  stopping 3-3
  uninstalling 4-1, 4-2
DataBlade modules 1-3
DBSERVERNAME configuration parameter 3-4
dbspace
  specifying 3-5
dbspaces 3-5
  root 3-6
Default sbspace
  definition of 3-5
  specifying 3-6
demonstration database server 1-5
Demos 1-3
disability A-1
Disk space, installation requirements 1-1
Dynamic Server extensions 1-3

E

Enterprise Replication 1-3
Environment variable
  %INFORMIXDIR% 1-6
Environment variables
  INFORMIXSQLHOSTS 3-6
Error log 2-11
Error messages 2-11
  installation 2-11

© Copyright IBM Corp. 1996, 2007

F

features 1-2, 1-3
features installed with Dynamic Server 1-3
First-time installation
  INFORMIXDIR directory 1-6
fix the installation 3-2
Fresh installation
  database server 4-2

G

Global Language Support (GLS) 1-3, 3-1
GLS (Global Language Support) 1-3
Group names 1-6

I

Incorrect privileges error message 2-11
information center 3-2
informix user 1-7
  advanced privileges 3-1
  creation of 3-1
Informix-Admin account
  creation of 3-1
Informix-Admin group 1-6
  updating members 3-6
  using Server Instance Manager 2-10
INFORMIXDIR directory
  first-time installation 1-6
  multiple installation 1-6
  upgrade 1-6
INFORMIXSQLHOSTS
  environment variable 3-6
Initializing database server 3-3, 3-6
installation 2-1
  of selective features 1-3
  prerequisites 1-1
Installation
  custom 1-7
  domain 1-7
  error messages 2-11
  first-time 1-6
  local 1-7
  problems, troubleshooting 2-11
  typical 1-7
Installations
  specialized 2-5
Installing
  database server
    multiple instances 1-6
    on multiple nodes 2-6
Insufficient virtual memory error message 2-11
Invalid database server name 2-11

L

Large objects (LOBs), smart 3-5
Limitations, database server name 2-11

M

Memory requirements, and multiple residency 2-10
Memory, virtual 2-11
Message log, for multiple residency 2-10
Migrating 1-1
Mirror location 3-5
  root dbspace 3-6
Mirroring, and multiple residency 2-10
MIRRORPATH configuration parameter 3-5
modify installation 3-2
Modifying
  Dynamic Server 4-1
Multiple installations
  INFORMIXDIR directory 1-6
Multiple nodes, installing on 2-6
Multiple nodes, installing with ClusterIT utility 2-6
Multiple residency 2-10
  and backups 2-10
  and mirroring 2-10
  and multiple binaries, warning 2-10
  memory requirements 2-10
  message log for 2-10
  ONCONFIG file 2-10
  planning for 2-10
  storage-space requirements 2-10
  tape drive 2-10

N

Network protocol
  TCP/IP 3-4

O

ON-Bar utility
  configuring storage manager 3-1
ONCONFIG file, and multiple residency 2-10
onconfig.demo file 1-5
onmode utility 3-3

P

Page size
  default sbspace 3-5
  error message 2-11
Parameters
  DBSERVERNAME 3-4
  MIRRORPATH 3-5
  SBSPACENAME 3-5
  SERVERNUM 3-4
Port numbers
  defined 3-4
  specifying 3-6
Post-Installation tasks 3-1
Primary storage location, root dbspace 3-6
Privileges
  administrator 2-11
  advanced 3-1
  local 2-10
  Server Instance Manager 2-10
Problems, installation 2-11
program group 3-2
Program, database server group 3-1

R

RAM, installation requirements 1-1
reinstall the installation 3-2
Reinstalling
  database server 4-2

Reinstalling *(continued)*
INFORMIXDIR directory 1-6
release notes 3-2
remove features or products 3-2
repair the installation 3-2
response codes 2-5
response file 1-2, 2-4
Restore, configuring storage manager 3-1
return codes 2-5
Role separation 1-6
Root dbspace
disk space requirements 1-1
primary and mirror storage locations 3-6
specifying name 3-6

S

sbpage, size 3-5
SBSPACENAME configuration parameter 3-5
sbspaces
default
specifying location 3-5
specifying name 3-6
specifying storage location 3-6
defined 3-5, 3-6
size 3-5
script-based installation 1-2
Server Instance Manager 3-2
Informix-Admin Group 2-10
privileges 2-10
starting 2-10
Server name 3-6
Server number 3-6
SERVERNUM configuration parameter 3-4
Service name
defined 3-4
specifying 3-6
Shared server
specifying 3-6
shortcut keys
keyboard A-1
shortcut menus 3-2
silent installation 1-2, 2-4
response codes 2-5
Silent installation
definition of 2-4
server.ini file 2-4
Size
default sbspace 3-5
sbpage 3-5
Smart blob drive 3-5
Smart large objects 3-5
Specialized installations 2-5
Specifying
database server name 3-6
database server number 3-6
default sbspace 3-6
root dbspace name 3-6
service name 3-6
sqlhosts registry
port entry 3-4
servicename entry 3-4
shared server definition computer 3-6
Start menu 3-2
Starting
database server automatically 3-3
starts utility 3-3
Storage locations, specifying 3-6
Storage-space requirements, and multiple residency 2-10
Swap file, installation requirements 1-1

T

Tape drives, for multiple residency 2-10
TCP/IP
port number 3-4
service name 3-4
specifying port number 3-6
specifying service name 3-6
Troubleshooting, installation problems 2-11
typical installation 1-2

U

uninstalling 1-2
Uninstalling 4-1
database server 4-1, 4-2
Updating Informix-Admin group 3-6
Upgrading 1-1
INFORMIXDIR directory 1-6
User accounts
informix
creating 3-1
User informix 1-7
utilities 1-3
Utilities
onmode 3-3
starts 3-3

V

Variables 3-6
Virtual memory, insufficient 2-11

W

Windows Administrators group 1-1
Windows file system, installation requirements 1-1
wizard
see installation application, GUI mode 1-2

Printed in USA

G229-6378-00