

SYBASE®

Quick Installation Guide

Adaptive Server® Enterprise

15.0.2

[Linux]

DOCUMENT ID: DC00468-01-1502-01

LAST REVISED: August 2007

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About This Book

Audience

This *Quick Installation Guide for Adaptive Server® Enterprise Linux Express Edition* is written for Sybase® System Administrators and other qualified personnel who are familiar with their system's environment, networks, disk resources, and media devices.

Related documents

The Sybase Adaptive Server Enterprise documentation set consists of the following:

- The release bulletin for your platform – contains last-minute information that was too late to be included in the books.

A more recent version of the release bulletin may be available on the World Wide Web. To check for critical product or document information that was added after the release of the product CD, use the Sybase Technical Library.
- The *Installation Guide* for your platform – describes installation, upgrade, and configuration procedures for all Adaptive Server and related Sybase products.
- *What's New in Adaptive Server Enterprise?* – describes the new features in Adaptive Server version 15.0.2, the system changes added to support those features, and changes that may affect your existing applications.
- *ASE Replicator User's Guide* – describes how to use the Adaptive Server Replicator feature of Adaptive Server to implement basic replication from a primary server to one or more remote Adaptive Servers.
- *Component Integration Services User's Guide* – explains how to use the Adaptive Server Component Integration Services feature to connect remote Sybase and non-Sybase databases.
- The *Configuration Guide* for your platform – provides instructions for performing specific configuration tasks for Adaptive Server.
- *Glossary* – defines technical terms used in the Adaptive Server documentation.

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- *Historical Server User's Guide* – describes how to use Historical Server to obtain performance information for SQL Server[®] and Adaptive Server.
 - *Java in Adaptive Server Enterprise* – describes how to install and use Java classes as data-types, functions, and stored procedures in the Adaptive Server database.
 - *Job Scheduler User's Guide* – provides instructions on how to install and configure, and create and schedule jobs on a local or remote Adaptive Server using the command line or a graphical user interface (GUI).
 - *Messaging Service User's Guide* – describes how to use Real Time Messaging Services to integrate TIBCO Java Message Service and IBM WebSphere MQ messaging services with all Adaptive Server database applications.
 - *Monitor Client Library Programmer's Guide* – describes how to write Monitor Client Library applications that access Adaptive Server performance data.
 - *Monitor Server User's Guide* – describes how to use Monitor Server to obtain performance statistics from SQL Server and Adaptive Server.
 - *Performance and Tuning Guide* – is a series of four books that explains how to tune Adaptive Server for maximum performance:
 - *Basics* – the basics for understanding and investigating performance questions in Adaptive Server.
 - *Locking* – describes how the various locking schemas can be used for improving performance in Adaptive Server.
 - *Optimizer and Abstract Plans* – describes how the optimizer processes queries and how abstract plans can be used to change some of the optimizer plans.
 - *Monitoring and Analyzing* – explains how statistics are obtained and used for monitoring and optimizing performance.
 - *Quick Reference Guide* – provides a comprehensive listing of the names and syntax for commands, functions, system procedures, extended system procedures, datatypes, and utilities in a pocket-sized book.
 - *Reference Manual* – is a series of four books that contains the following detailed Transact-SQL[®] information:
 - *Building Blocks* – datatypes, functions, global variables, expressions, identifiers and wildcards, and reserved words.

- *Commands* – commands.
- *Procedures* – system procedures, catalog stored procedures, system extended stored procedures, and dbcc stored procedures.
- *Tables* – system tables and dbcc tables.
- *System Administration Guide* – provides in-depth information about administering servers and databases. This manual includes instructions and guidelines for managing physical resources, security, user and system databases, and specifying character conversion, international language, and sort order settings.
- *System Tables Diagram* – illustrates system tables and their entity relationships in a poster format. Available only in print version.
- *Transact-SQL User's Guide* – documents Transact-SQL, the Sybase enhanced version of the relational database language. This manual serves as a textbook for beginning users of the database management system. This manual also contains descriptions of the pubs2 and pubs3 sample databases.
- *Using Adaptive Server Distributed Transaction Management Features* – explains how to configure, use, and troubleshoot Adaptive Server DTM features in distributed transaction processing environments.
- *Using Sybase Failover in a High Availability System* – provides instructions for using Sybase Failover to configure an Adaptive Server as a companion server in a high availability system.
- *Unified Agent and Agent Management Console* – Describes the Unified Agent, which provides runtime services to manage, monitor and control distributed Sybase resources.
- *Utility Guide* – documents the Adaptive Server utility programs, such as isql and bcp, which are executed at the operating system level.
- *Web Services User's Guide* – explains how to configure, use, and troubleshoot Web Services for Adaptive Server.
- *XA Interface Integration Guide for CICS, Encina, and TUXEDO* – provides instructions for using the Sybase DTM XA interface with X/Open XA transaction managers.
- *XML Services in Adaptive Server Enterprise* – describes the Sybase native XML processor and the Sybase Java-based XML support, introduces XML in the database, and documents the query and mapping functions that comprise XML Services.

- *FLEXnet Licensing End User Guide* – this Macrovision manual explains FLEXnet Licensing for administrators and end users and describes how to use the tools which are part of the standard FLEXnet Licensing distribution kit from Sybase.
- *SAMreport User's Guide* – this Macrovision manual explains how to use SAMreport, a report generator that helps you monitor the usage of applications that use FLEXnet licensing.

Other sources of information

Use the Sybase Getting Started CD, the SyBooks CD, and the Sybase Product Manuals Web site to learn more about your product:

- The Getting Started CD contains release bulletins and installation guides in PDF format, and may also contain other documents or updated information not included on the SyBooks CD. It is included with your software. To read or print documents on the Getting Started CD, you need Adobe Acrobat Reader, which you can download at no charge from the Adobe Web site using a link provided on the CD.
- The SyBooks CD contains product manuals and is included with your software. The Eclipse-based SyBooks browser allows you to access the manuals in an easy-to-use, HTML-based format.

Some documentation may be provided in PDF format, which you can access through the PDF directory on the SyBooks CD. To read or print the PDF files, you need Adobe Acrobat Reader.

Refer to the *SyBooks Installation Guide* on the Getting Started CD, or the *README.txt* file on the SyBooks CD for instructions on installing and starting SyBooks.

- The Sybase Product Manuals Web site is an online version of the SyBooks CD that you can access using a standard Web browser. In addition to product manuals, you will find links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network.

To access the Sybase Product Manuals Web site, go to Product Manuals at <http://www.sybase.com/support/manuals/>.

Sybase certifications on the Web

Technical documentation at the Sybase Web site is updated frequently.

❖ **Finding the latest information on product certifications**

- 1 Point your Web browser to Technical Documents at <http://www.sybase.com/support/techdocs/>.
- 2 Click Certification Report.

- 3 In the Certification Report filter select a product, platform, and timeframe and then click Go.
- 4 Click a Certification Report title to display the report.

❖ **Finding the latest information on component certifications**

- 1 Point your Web browser to Availability and Certification Reports at <http://certification.sybase.com/>.
- 2 Either select the product family and product under Search by Base Product; or select the platform and product under Search by Platform.
- 3 Select Search to display the availability and certification report for the selection.

❖ **Creating a personalized view of the Sybase Web site (including support pages)**

Set up a MySybase profile. MySybase is a free service that allows you to create a personalized view of Sybase Web pages.

- 1 Point your Web browser to Technical Documents at <http://www.sybase.com/support/techdocs/>.
- 2 Click MySybase and create a MySybase profile.

**Sybase EBFs and
software
maintenance**

❖ **Finding the latest information on EBFs and software maintenance**

- 1 Point your Web browser to the Sybase Support Page at <http://www.sybase.com/support>.
- 2 Select EBFs/Maintenance. If prompted, enter your MySybase user name and password.
- 3 Select a product.
- 4 Specify a time frame and click Go. A list of EBF/Maintenance releases is displayed.

Padlock icons indicate that you do not have download authorization for certain EBF/Maintenance releases because you are not registered as a Technical Support Contact. If you have not registered, but have valid information provided by your Sybase representative or through your support contract, click Edit Roles to add the “Technical Support Contact” role to your MySybase profile.

-
- 5 Click the Info icon to display the EBF/Maintenance report, or click the product description to download the software.

Accessibility features

This document is available in an HTML version that is specialized for accessibility. You can navigate the HTML with an adaptive technology such as a screen reader, or view it with a screen enlarger.

Adaptive Server and its HTML documentation have been tested for compliance with U.S. government Section 508 Accessibility requirements. Documents that comply with Section 508 generally also meet non-U.S. accessibility guidelines, such as the World Wide Web Consortium (W3C) guidelines for Web sites.

The online help for this product is also provided in HTML, which you can navigate using a screen reader.

Note You might need to configure your accessibility tool for optimal use. Some screen readers pronounce text based on its case; for example, they pronounce ALL UPPERCASE TEXT as initials, and MixedCase Text as words. You might find it helpful to configure your tool to announce syntax conventions. Consult the documentation for your tool.

For information about how Sybase supports accessibility, see Sybase Accessibility at <http://www.sybase.com/accessibility>. The Sybase Accessibility site includes links to information on Section 508 and W3C standards.

If you need help

Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you cannot resolve a problem using the manuals or online help, please have the designated person contact Sybase Technical Support or the Sybase subsidiary in your area.

Installing Adaptive Server

This Chapter provides information on installing Adaptive Server version 15.0.2.

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Adaptive Server editions

This quick installation guide covers the following Adaptive Server editions:

- Express Edition
- Developer Edition
- Enterprise Edition – Evaluation copy

Adaptive Server Enterprise Express Edition

Adaptive Server Express Edition for Linux is the first “free” enterprise class commercial database that can take you from pilot to deployment for zero dollars and zero risk. Adaptive Server Express Edition version 15.0.2 is currently offered on the following Linux operating systems:

- Linux on POWER
- Linux X86

- Linux x64

This Linux Express Edition has the following configuration limitations:

- You can specify only one engine in the max online engines configuration parameter.
- You can configure up to 2GB of max memory.
- The total disk space is limited to 5GB.

Adaptive Server Enterprise Developer Edition

Adaptive Server Enterprise Developer Edition is available at a nominal fee—or as a free download on certain platforms—for developers to use to create applications in their development environment. The Developer Edition is offered on the following operating systems:

- WinX86
- Windows x64
- LinuxX86
- Linux x64
- Solaris64

The Developer Edition includes a full set of Adaptive Server features and options for the following configuration:

- Number of engines – 1
- Number of connections – 25

The Developer Edition supports these Adaptive Server options:

- Security and Directory Services
- High Availability
- Distributed Transaction Management (DTM)
- Partitions

- Encryption

Note You may only use the Developer Edition to develop your applications. Do not use Adaptive Server Enterprise Developer Edition for any production use; under any circumstances.

Adaptive Server Enterprise (Enterprise Edition for evaluation)

The evaluation copy of Adaptive Server Enterprise allows you to use a fully functional Adaptive Server Enterprise for evaluation purposes. The copy installed from the installation media can be evaluated for a period of 30 days. You can further extend the evaluation for another 150 days term for a total of 180 day evaluation term. The evaluation Edition of Adaptive Server is available for these operating system:

- WinX86
- Windows x64
- LinuxX86
- Linux x64

The evaluation copy of Enterprise Edition does not place any limits on configurable Adaptive Server resources (other than the hard Adaptive Server limitations). It includes support for the following optional features:

- Security and Directory Services
- High Availability
- Distributed Transaction Management (DTM)
- Partitions
- Encryption

Note You can use the evaluation copy of Adaptive Server Enterprise for purpose of evaluating Adaptive Server only. Under no circumstances can you use Adaptive Server Enterprise Evaluation for any commercial or production purposes.

System requirements

For the most recent certification information, see Sybase Product Certification site at <http://certification.sybase.com>.

Table 1-1 shows the minimum kernel and glibc levels for the Linux platforms.

Table 1-1: System requirements for Linux 32-bit and 64-bit

Operating system	Hardware	Minimum RAM
Linux x86 RedHat Enterprise Linux 3.0 update: 8	Intel x86 architecture	128 MB
<ul style="list-style-type: none"> kernel 2.4.21-47.EL or higher glibc-2.3.2-95.44 or higher compat-libstdc++-7.3-2.96.128 or higher 	Minimum: Pentium III, 300 MHz Recommend: at least 1 GHz	Recommend: at least 512 MB
Linux x 86 Red Hat Enterprise Linux 4.0 update: 0	Intel x86 architecture	128 MB
<ul style="list-style-type: none"> kernel -2.6.9-5.EL glibc-2.3.4-2 	Minimum: Pentium III, 300 MHz Recommend: at least 1 GHz	Recommend: at least 512 MB
Linux x86 SuSE Linux Enterprise Server SLES 9.0 Update: 2	Intel x86 architecture	128 MB
<ul style="list-style-type: none"> kernel 2.6.5-7.191 or higher glibc 2.3.3-98.47 or higher compat-2004.7.1-1.2 or higher 	Minimum: Pentium III, 300 MHz Recommend: at least 1 GHz	Recommend: at least 512 MB
Linux x86 SuSE Linux Enterprise Server SLES 10	Intel x86 architecture	128 MB
<ul style="list-style-type: none"> kernel 2.6.13-15 or higher glibc 2.3.5-40 or higher 	Minimum: Pentium III, 300 MHz Recommend: at least 1 GHz	Recommend: at least 512 MB
Linux x64 RedHat Enterprise Linux 3.0 update 8	AMD Opteron Processor or Intel Xeon with EM64T support	128 MB
<ul style="list-style-type: none"> kernel 2.4.21-47.EL or higher glibc-2.3.2-95.44 or higher compat-libstdc++-7.3-2.96.128 or higher 		Recommend: at least 512 MB
Linux x64 RedHat Enterprise Linux 4.0 update: 0	AMD Opteron Processor or Intel Xeon with EM64T support	128 MB
<ul style="list-style-type: none"> kernel -2.6.9-5.EL glibc-2.3.4-2 		Recommend: at least 512 MB

Operating system	Hardware	Minimum RAM
Linux PSeries	IBM pSeries Server with	256 MB
RedHat Enterprise Linux 3.0 update 8	POWER5 CPU	Recommend: at least 512 MB
<ul style="list-style-type: none"> • kernel 2.4.21-47.EL or higher • glibc-2.3.2-95.44 or higher • compat-libstdc++-7.3-2.96.128 or higher • vacpp.rte-7.0.0-0 or higher 		
Linux PSeries	IBM pSeries Server with	256 MB
Red Hat Enterprise Linux 4.0 update: 0	POWER5 CPU	Recommended: at least 512 MB
<ul style="list-style-type: none"> • kernel -2.6.9-5.EL • glibc-2.3.4-2 • compat-libstdc++-33-3.2.3-47.3 		

Table 1-2 shows the disk space requirements to install Adaptive Server on Linux platforms.

Table 1-2: Disk space requirements for Linux 32-bit platforms

Product	Disk space requirements
Adaptive Server typical install	620MB
Default databases created during install	150MB
Total	1320MB

Note Newer kernels/glibc intended for the same operating system are implicitly certified.

System Requirements for PC Client Installation

Table 1-3: Minimum System requirements for PC-Client on Windows XP

Windows OS	Hardware	Minimum RAM
WinXP update: SP2 (Windows Installer 3.1 (KB893803))	P4 1.0 GHz	512 MB

Pre-installation tasks for a fresh installation

Before installing Adaptive Server:

- 1 Create a “sybase” account on your system to perform all installation tasks.

The “sybase” user must have permission privileges from the top (or root) of the disk partition or operating system directory down to the specific physical device or operating system file.

- 2 Log in to the machine as the “sybase” user.

Maintain consistent ownership and privileges for all files and directories. A single user—the Sybase System Administrator with read, write, and execute permissions—should perform all installation, upgrade, and setup tasks.

- 3 Decide where to install the Adaptive Server software. Make sure that there is sufficient available disk space. Do not use any spaces in the path name of the directory.

- 4 Verify that the operating system meets the version level, RAM, and network protocol requirements for your platform.

- 5 Verify that your network software is configured.

Sybase software uses network software even if Adaptive Server and Sybase client applications are installed on a machine that is not connected to a network.

Ping the host if you are having connection problems, or to verify your network configuration.

- 6 The operating system shared memory default of most Linux releases is 32MB. The minimum required by Adaptive Server is 64MB for a default Server with 2K pages. You must increase the amount of shared memory if you plan to increase the total memory of Adaptive Server.

Use the `sysctl(8)` method to check and adjust the operating system shared memory parameter.

- To check the current shared memory size, enter:

```
# /sbin/sysctl kernel.shmmax
```

- To adjust the shared memory size, enter the following, where *nnn* is the new size in bytes (at least 64MB which is 67108864 bytes):

```
# /sbin/sysctl -w kernel.shmmax=nnn
```

To guarantee that this value is applied every time the system is started, add this line to your `/etc/rc.d/rc.local` file (`/etc/init.d/boot.local` on SuSE systems).

- 7 On Linux RHEL Update 3.0 and higher, Adaptive Server version 15.0.2 running on multiple engines requires the security feature Exec-Shield to be disabled. To disable Exec-Shield:

- a Add the following lines in `/etc/sysctl.conf`:

```
kernel.exec-shield=0
kernel.exec-shield-randomize=0
```

- b As SU, enter:

```
/sbin/sysctl -P
```

for the disabling of Exec-Shield to take effect.

For more information, see the Red Hat website at http://www.redhat.com/f/pdf/rhel/WHP0006US_Execshield.pdf.

- 8 If you are having trouble starting the installer, make sure you have the required operating system patches for the Java Runtime Environment (JRE) version 1.4.2.

For information about the required operating system patches, see the JRE vendor Web site at <http://java.sun.com>.

- 9 You must know what product edition you are installing. Your options are:
 - Developer Edition
 - Express Edition

- Enterprise Edition
- 10 You must decide if you want licensing events to trigger e-mail alerts and what severity causes e-mail alerts.

If you choose to have e-mail notification of license events, you must know the:

- SMTP server host name
- Port number for an SMTP server
- E-mail return address
- Recipients of the notifications
- Severity level of an event that will trigger mail. Your choices are:
 - None
 - Informational
 - Warning
 - Error

Pre-installation tasks for an overlay installation

To execute an overlay installation:

- 1 Verify that your current Adaptive Server is one of the releases prior to the version you are installing by running the following query from isql:

```
1> select @@version
2> go
```

If your server is not running, enter:

```
$$SYBASE/$SYBASE_ASE/bin/dataserver -v
```

Warning! Your software needs to be at a version lower than the version you are installing prior to applying this EBF.

- 2 Installing Adaptive Server version 15.0 Update #1 overwrites the current Adaptive Server. Prior to installing Adaptive Server version 15.0 Update #1, make sure that your databases are error free and back up your %SYBASE% directory, in case you need to return to the original version of the software.

To ensure that your database is error free, run `dbcc checkdb`, `dbcc checkcatalog` and `dbcc checkstorage` prior to installing any new Adaptive Server binaries including the master database.

If any of the `dbcc` commands reveal problems, stop here and see the *Troubleshooting and Error Messages Guide* for more information.

Installing Adaptive Server

There are two ways to install Adaptive Server:

- Execute a fresh installation by installing it into a clean directory.
- Overlay the installation on top of a previous version of Adaptive Server.

Note You must log in as “sybase” when you perform installation tasks. Do not install Adaptive Server as “root.”

The installer creates the target directory, if necessary, and installs all the selected components into that directory.

At the end of the installation, you can verify the product installation. You might need to perform additional configuration procedures before you can use some products.

As part of the installation, the installer sets up all of the environment variables Adaptive Server products need. To access these environment variables, source `SYBASE.csh` or `SYBASE.sh` script.

❖ Installing server components

- 1 If you are downloading files from the Web–

After you download Adaptive Server, extract the contents into an temporary directory, by entering:

```
gunzip -S .tgz download_file_name.tgz
tar -xf download_file_name.tar
```

If you are installing from a CD—

Insert the Adaptive Server CD into the CD drive.

Change to the CD or installation directory and start the installer by entering:

```
./setup
```

The Welcome window displays. Click Next.

Note If you are installing Adaptive Server onto an existing Adaptive Server installation, be sure the server is shut down before performing the installation.

2 Select the type of server you want to install. Your choices are:

- Adaptive Server Enterprise for evaluation
- Adaptive Server Enterprise Developer Edition
- Adaptive Server Enterprise Express Edition

Click Next.

3 When the license selection window displays, select the most appropriate location from the drop-down list, read the license terms, and then click “I agree...” to proceed.

Click Next.

4 The Install directory window allows you to select a directory for the installation by clicking Browse. Click Next to accept the default of:

```
/opt/sybase
```

You can also type the directory for installation.

5 You can choose from three types of installations in the Install Type window:

- Typical - Language modules other than English are not installed as part of a typical install. Use Full or Custom to install them.
- Full - Installs all product features.
- Custom - Allows you to choose the products and features you want to install

After you make your selection, click Next. Before proceeding to the next window, the installer verifies the selections, and checks for dependencies and available disk space.

- 6 The Product Selection Summary window displays the selections that you made. Verify that you:

- Selected the correct type of installation
- Have enough disk space to complete the process

Click Next to proceed. The Install Progress window shows the progress of the installation.

- 7 The Install Status window displays the result of the installation process.
- 8 The Sybase Software Asset Management (SySAM) screen displays. You must select whether you wish to receive e-mail alerts about license activity. If you select Yes, you must include the following:

- SMTP server host name
- SMTP server port number
- Sender e-mail address
- Recipient e-mail address

Note It is good practice to use e-mail aliases rather than individual accounts so the database administrator responsible for the server can more easily be maintained and so notifications do not get lost if an individual is not in the office to receive the alert.

- Message Severity for e-mail alerts

- 9 If you are performing an overlay installation to upgrade an existing Adaptive Server, do not select any servers to configure and click Next to complete the installation.

- 10 The Configure New Servers window asks if you want to configure new servers, depending on the products you installed.

Select the servers you want to configure at this time and click Next.

To skip the configuration step and end the installation, deselect all servers and click Next.

- 1 Select the servers you want to custom configure. If you do not select any servers in this window, the installer configures all servers using default values.

If you:

- Choose the default values, the installer chooses everything, including the server name, port number, and master device location. The installer does this for the System Procedure device. It also installs Backup Server, Monitor Server, and the XP Server, choosing the name, port number, and error log.
- Accept the defaults, the server names are:
 - Adaptive Server – *HOST NAME*
 - Backup Server – *HOST NAME_BS*
 - Monitor Server – *HOST NAME_MS*
 - XP Server – *HOST NAME_XP*

To configure servers using the default values, click Next.

- 2 The Configure Server Attributes Summary window displays a summary of the values that are used to configure the servers. These values are either the default or custom values.

Verify the information, then click Next. The installer proceeds with the server configuration.

The Configure Server Progress window displays the progress of the server configuration.

- 3 The Installation Complete window is the last window.

Click Next to finish the installation. The installation is complete.

Note Sybase strongly recommends that you check the Sybase Web site at <http://www.sybase.com/downloads> for software updates.

To custom configure your server see Custom configuring your Installation.

❖ **Custom configuring your Installation**

- 1 To custom configure servers, select the servers and click Next.
- 2 The Custom Configure Input window prompts you for the following custom Adaptive Server configuration information:
 - Server name
 - Port numbers
 - Page size

- Error log
- Master device
- Master device size (MB)
- Master database size (MB)
- System procedure device
- System procedure device size (MB)
- System procedure database size (MB)
- System device
- System device size (MB)
- System database size (MB)

After you customize the Adaptive Server configuration, select Next to record the input fields.

- 3 The Custom Configure Backup Server Input window prompts you for the Backup Server information.

Enter the appropriate information, then click Next to record the information.

- 4 The Custom Configure Monitor Server Input window prompts you to enter the Monitor Server configuration information.

Enter the appropriate information, then click Next to record the information.

- 5 The Custom Configure XP Server Input window prompts you to enter the XP Server configuration information.

Enter the appropriate information, then click Next to record the information.

- 6 The Configure Server Attributes Summary window displays a summary of the values that are used to configure the servers. These values are either the default or custom values.

Verify the information, then click Next. The installer proceeds with the server configuration.

The Configure Server Progress window displays the progress of the server configuration. The Installation Complete window is the last window.

- 7 Sybase strongly recommends that you check the Sybase Web site at <http://www.sybase.com/downloads> for software updates.

Click Next to finish the installation. The installation is complete.

If you encounter any errors, see the *Troubleshooting Guide*.

To configure your Adaptive Server Express Edition, read the *Configuration Guide*.

Note Sybase strongly recommends that you check the Sybase Web site at <http://www.sybase.com/downloads> for software updates.

Changing default character set, sort order or language

Adaptive Server supports a wide variety of character sets, and you can localize error messages to suit your user community. By default, Adaptive Server is installed with a default character set of iso_1 (ISO 8859-1), a binary sort order, and English as the default language. The changes required are described in this section.

Complete these steps before you add any user data to Adaptive Server. If your server contains data, follow the procedures outlined in the *System Administration Guide* to save and restore it.

Use the charset utility to change the default character set. At this time, you can only run this utility from the UNIX/Linux shell, so you must open a terminal window to do this. charset is at `$SYBASE/ASE-15_0/bin/charset`.

❖ Changing Adaptive Server defaults

- 1 Run the charset utility to add the character set to Adaptive Server's system catalogs.
- 2 Execute sp_configure to set the default character set.
- 3 Restart the server. The server comes up, performs any necessary reconfiguration it needs to do internally, and then shuts itself down. You can then restart it.

Changing the default language

You can configure Adaptive Server to deliver messages in a language other than English. You can also install messages for non-English languages and set the default language using the `langinstall` utility program, located in `$$SYBASE/ASE-15_0/bin/langinstall`.

For more information on how to change the default character set, sort order, or language, read Chapter 7, “Configuring Character Sets, Sort Orders, and Languages” and Chapter 8, “Configuring Client/Server Character Set Conversions,” in the *System Administration Guide*.

Post-installation tasks for an overlay installation

If you are installing Adaptive Server on top of a previous release, perform the following post-installation tasks.

Note Before doing any of these tasks, source `SYBASE.csh` or `SYBASE.sh` in `$$SYBASE` to set the environment variables.

Running the *installmaster* script

Using `isql`, run the new *installmaster* script included with this release by entering:

```
isql -Usa -P<sa password> -S<servername> -n
-i$$SYBASE/$$SYBASE_ASE/scripts/installmaster
-o<output file>
```

Where:

- `-P` is the password parameter
- `-S` is servername parameter

Save the output to an operating system file.

Note If you have modified any of the Sybase system stored procedures without changing the names, executing *installmaster* overwrites your modifications. Reload the modified stored procedures after you run the *installmaster* script.

Running the *installcommit* script

If you use two-phase commit or distributed transactions, rerun the *installcommit* SQL script to restore the following stored procedures:

- `sp_start_xact`
- `sp_abort_xact`
- `sp_remove_xact`
- `sp_stat_xact`
- `sp_scan_xact`
- `sp_probe_xac`

Note If you have modified any of these Sybase system stored procedures without changing the names, executing *installcommit* overwrites your modifications. In this case, reload the modified stored procedures after you run *installcommit*.

Using `isql`, run the new *installcommit* script included with this release.

```
isql -Usa -P<sa password> -S<servername> -n
-i$$SYBASE/$SYBASE_ASE/scripts/installcommit
-o<output file>
```

Where:

- `-P` is the password parameter
- `-S` is servername parameter

Save the output to an operating system file.

Running the *installsecurity* script

If you are using the Sybase auditing feature, rerun the *installsecurity* script. This script will reinstall the following stored procedures:

- `sp_addauditrecord`
- `sp_audit`
- `sp_aux_getsptaud`
- `sp_aux_displaylogaud`
- `sp_aux_displayoptaud`
- `sp_aux_displaysprocaud`
- `sp_aux_displaydbauid`
- `sp_displayaudit`
- `sp_addaudittable`

Note If you have modified any of these Sybase system stored procedures without changing the names, executing *installsecurity* overwrites your modifications. In this case, you must reload the modified stored procedures after you run the *installsecurity* script.

Using `isql`, run the new *installsecurity* script included with this release.

```
isql -Usa -P<sa password> -S<servername> -n  
-i$SYBASE/$SYBASE_ASE/scripts/installsecurity  
-o<output file>
```

Where:

- `-P` is the password parameter
- `-S` is servername parameter

Save the output of this step to an operating system file.

Running the *instmsgs.ebf* script

Running the *instmsgs.ebf* script brings your Adaptive Server messages up to the level of this EBF.

Using `isql`, run the new *instmsgs.ebf* script included with this release.

```
isql -Usa -P<sa password> -S<servername> -n  
-i$SYBASE/$SYBASE_ASE/scripts/instmsgs.ebf  
-o<output file>
```

Where:

- -P is the password parameter
- -S is servername parameter

Save the output of this step to an operating system file.

Running the *installjsdb* script

If you installed Adaptive Server with the Job Scheduler feature enabled:

- 1 Stop Job Scheduler by issuing the following command from an isql session:

```
use sybmgmtdb  
go  
sp_js_wakeup "stop_js", 1  
go
```

- 2 Using isql, run the *installjsdb* script that is included with this release.

```
isql -Usa -P<sa password> -S<servername> -n  
-i$SYBASE/$SYBASE_ASE/scripts/installjsdb  
-o<output file>
```

Where:

- -P is the password parameter
- -S is servername parameter

Save the output of this step to an operating system file.

- 3 The *installjsdb* script looks for the sybmgmtdb database. The script updates Job Scheduler tables and stored procedures.
- 4 Start Job Scheduler by issuing the following commands from an isql session:

```
1> use sybmgmtdb  
2> go  
1> sp_js_wakeup "start_js", 1  
2> go
```

Upgrading Job Scheduler templates

If you installed Adaptive Server with the Job Scheduler feature enabled Sybase recommends that you upgrade the Job Scheduler Templates.

- 1 Go to the JS template stored procedure directory. For example:

```
cd $SYBASE/ASE-15_0/jobscheduler/Templates/sprocs
```

- 2 Run *installTemplateProcs* by entering:

```
installTemplateProcs <servername> <username>
<password>
```

- 3 Move to the JS template XML directory. For example:

```
cd $SYBASE/ASE-15_0/jobscheduler/Templates/xml
```

- 4 Run *installTemplateXML*, by entering:

```
installTemplateXML <servername> <machinename>
<serverport> <username> <password>
[<language_code>]
```

Use “en” for the *language_code* or you may omit the parameter completely as “en” is the default.

Running the *installmontables* script

If you have previously installed the Monitoring Tables then you need to update the table definitions by running the *installmontables* script. If you would like to install the Monitoring Tables, see the “Monitoring Tables” chapter of the *Performance and Tuning Guide*. Using *isql*, run the new *installmontables* script included with this release by entering:

```
isql -Usa -P<sa password> -S<servername> -n
-i$SYBASE/$SYBASE_ASE/scripts/installmontables
-o<output file>
```

Save the output to an operating system file.

Reverting to the previously installed release

If it is necessary to revert to the previously installed release, use the back-up copy you created. Perform the steps to run the *installmaster*, *installcommit*, *installsecurity*, and *instmsgs.ebf* scripts located in the back-up. This ensures that all scripts and messages are returned to their former versions.

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