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About Lotus Domino and Lotus Notes

The Lotus® Domino™ server, powered by Lotus Notes®, combines Web server technology with the proven messaging, groupware, and application development capabilities of Notes™.

The Internet/intranet solution

By extending the power of Notes to anyone with a Web browser, Domino is the premier interactive Web applications server for creating and hosting Internet and intranet sites. Domino bridges the open networking environment of Internet standards and protocols with powerful application development facilities. And by using Domino, any Web client can participate in applications securely.

There is no better technology for Web publishing, Web browsing, and Internet/intranet applications than Domino. Only Domino offers replication, authentication, messaging, and security services — fully integrated with Internet protocols — in a single package. With the Domino Mail Access license, non-Notes mail clients can access Domino servers for mail. And because Domino is cross-platform, it is the software solution for extending business applications to the Internet.

Powerful tool for sharing information

Domino is the central access point for finding and sharing information you need, whether it’s located in e-mail, relational databases, or host-based systems; in your favorite desktop application; or on the World Wide Web. The Notes database provides a secure, reliable, and scalable means to store, manage, and distribute business information.

Three powerful technologies come together to make Domino the industry’s strongest client/server application development and deployment platform: a powerful, flexible compound-document database, a rich applications development environment, and a sophisticated messaging system.
A powerful, flexible compound-document database
The Lotus Notes document database is a robust object storage facility through which users can access, track, store, and organize a wealth of information. Documents can contain any number of objects and data types, including text, rich text, numerical text, structured data, images, graphics, sound, and motion picture images. A Notes database also contains forms for entering information into the documents, views for accessing the information, and rich application development tools to automate processes related to the application. Integration between Notes databases and traditional databases dramatically enhances the value of an organization’s information assets.

A rich application development environment
With Lotus Domino, both end-users and professional developers can create effective cross-platform client/server applications. Lotus provides ready-to-run application templates for the most common groupware applications including team management, customer service, meeting tracking, status reporting, reservation scheduling, and more. Customers can use these templates right out of the box, or customize them to meet specific needs. Or they can build applications from scratch using forms, fields, and views — the basic building blocks of a Notes database.

A sophisticated messaging system
Every Notes user can send and receive e-mail, and every Notes application is automatically mail-enabled. Customers can exchange mail across a variety of mail systems, including cc:Mail™ and MHS, and use prevailing standards, such as SMTP and X.400. Moreover, customers can build messaging and routing applications to automate the flow of work and information throughout their organization. Use the Lotus Domino 4.6 Mail server as the backbone of your messaging system.
About the license types

There are six Domino server license types and four client license types.

**Domino server license types**
- Lotus Domino Mail Server for Single Processor
- Lotus Domino Mail Server for MultiProcessor
- Lotus Domino Server for Single Processor
- Lotus Domino Server for MultiProcessor
- Lotus Domino SMP (Symmetric Multi-Processor) Services
- Lotus Domino Advanced Services

The Lotus Domino Mail server lets you run messaging for your organization with Domino. The Lotus Domino server includes the full messaging functionality of the Domino Mail server and adds application development capabilities.

You must acquire one copy of the Software for each server on which the software will be installed. A server is defined as a central processing unit (CPU), or group of CPUs, that accesses its or their own individual non-cache Random Access Memory (RAM).

The Domino Server for Single Processor may only be used on a server with one CPU. The Lotus Domino Mail Server for Single Processor license entitles you to host only those predefined templates which are installed with the Domino Mail Server (including chat, discussion, calendaring and scheduling, and messaging applications). The Lotus Domino Server for Single Processor entitles you to host all applications included with the Domino Server, as well as any custom or third-party applications which are available to you. The Domino Server for Multi-Processor may be used on any server. You may use the client features of the Lotus Domino Server to perform installation and administrative tasks; if you want to customize or create applications you must acquire a copy of the Lotus Notes Client software.

If you wish to use a Domino Server product on a server with multiple CPUs, you must purchase the Domino Server for Single Processor and Domino SMP Services. You must first acquire a copy of either Domino Server or Domino Mail Server in order to run Domino SMP Services.

You can use the Lotus Domino Advanced Services license with either a single processor or a multiprocessor computer. With the Lotus Domino Advanced Services license, you gain three primary server enhancements: clustering, the ability to connect several servers together to provide maximum accessibility and synchronization; partitioned servers, enabling one computer to host up to six servers; and billing, capabilities for tracking and storing information about system usage. You must first acquire a copy of
the Domino server for Single Processor, the Domino server for MultiProcessor, the Domino Mail server for Single Processor, or Domino Mail server for MultiProcessor to run Domino Advanced Services. You must acquire a Domino Advanced Services license for each server on which you wish to run the software.

**Client license types**

- Lotus Domino Mail Access
- Lotus Notes Mail
- Lotus Notes Desktop
- Lotus Notes Designer for Domino

You must acquire one copy of the software for each unique Notes User ID that is issued. The software may also be installed on a home and/or laptop computer, but only the authorized user may access the software. You may create user IDs only for the specific Lotus Notes Client version (e.g., Notes Desktop™ Client) purchased. You are not required to acquire additional copies of the software when you create Lotus Notes IDs for scheduling applications such as Lotus Organizer.

For the Lotus Notes Designer for Domino license, you must acquire one copy of the software for each application developer. In addition to using the software to design, develop and test your software application products, you may also use the software as your Lotus Notes client. The software also gives you the right to use Lotus Bean Machine (according to the terms set forth above under Domino server license types) and Lotus Notes Global Designer.

The Lotus Domino Mail Access license allows customers using non-Notes mail clients to access Domino 4.6 servers for mail. You must first acquire a copy of either Domino Server or Domino Mail Server in order to use Domino Mail Access. You must pay an access fee for each user who accesses a unique mail file on your server. You are not required to pay an access fee for (i) users who access the mail file with a Lotus e-mail client, or (ii) users who access non-mail databases or the replica of an already paid for mail file. The purchase of any Notes client includes the Domino Mail Access license.

The Notes client licenses differ from each other in one or both of the following ways:

- The types of databases and database templates to which you have access.
- The extent to which you may modify the design of a database and perform administrative tasks.

A **database** is a collection of data. Many of the databases that come with Notes are documentation databases; that is, databases that contain information on using Notes.
A database template is a skeleton database design that doesn’t contain any data. You create a database by copying the database template and then adding data to the copy. For example, you can copy the Discussion database template and then add to the copy the information you want to discuss — for example, brainstorming ideas for a new product.

Design features are features that let you modify the design of a database. For example, the design features let you change the appearance and structure of all the documents in a database.

Administration features are features that allow you to perform administrative tasks such as registering new Notes users.

All license types have access to the Lotus Business Partner Catalog database, the most complete source of information on Business Partner products and services worldwide. This database can help you identify products and services that will maximize your Lotus technology investments.

The following sections describe the three Notes client licenses. For more information, see your Lotus Software Agreement.

Lotus Notes Mail licenses

With a Lotus Notes Mail license, you have access to the following types of databases:

- A client/server mail database, which stores your mail. Domino creates this database for you automatically from the mail database template.
- Communication and collaboration databases, which help you work with others in your workgroup. You create these databases using the communications and collaboration database templates.
- Documentation databases, which are online books provided for your information.

Lotus Notes Mail does not include any design or administration features. For more information on available database templates, see Appendix G of Getting Started with Domino.

Lotus Notes Desktop licenses

The Lotus Notes Desktop license provides unrestricted access to all Notes databases and database templates, including any custom or third-party databases and templates that are available to you.

The Lotus Notes Desktop license does not provide access to design and administration features. For more information on available database templates, see Appendix G of Getting Started with Domino.
Lotus Notes Designer for Domino licenses

The Lotus Notes Designer for Domino license allows unrestricted access to all types of Notes templates and databases. In addition, you can create a blank database or use an existing database or database template as a starting point, to design your own applications. With a Lotus Notes Designer for Domino license, you can also perform administrative functions such as registering new Notes users.

A summary of the client functionality is below.

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About the documentation

The Notes workstation and Domino server come with online documentation databases and printed books for many specialized tasks and individual situations. The following list will help you determine which documentation to read.

Administration

*Lotus Domino 4.6 Administrator’s Roadmap* provides an overview of Domino administration documentation.

*Lotus Domino 4.6 Planning the Domino System* provides information for planning, deploying, and integrating a Domino system in all types of organizations. It also discusses Internet, intranet, and extranet strategies for Domino.
Lotus Domino 4.6 Configuring the Domino Network shows network administrators how to configure specific network operating systems to work with Domino, and how to configure Domino to work with their network operating systems.

Lotus Domino 4.6 Install Guide lists platform-specific instructions on installing and setting up Domino servers. The Domino Install Guide is also available online as a database file named SRVINST.NSF.

Lotus Domino 4.6 Getting Started with Domino explains how to roll out and set up Domino servers and users. It also covers security, replication, the Public Address Book, server connections, server commands, and other administration-related topics.

Lotus Domino 4.6 Extending the Domino System explains how to set up Notes mail, Internet mail, Web server features, calendar and scheduling functionality, Advanced Services, and other administration-related topics.

Lotus Domino 4.6 Maintaining the Domino System explains how to manage and maintain Domino servers, users, databases, and tools, and other administration-related topics.

The Release 4.6 Administration Help database provides online help and documentation for system and server administration tasks, deployment planning, and network configuration. The What’s New view lists new features for administrators who are already familiar with Release 3.x. The information is also available in Planning the Domino System, Getting Started with Domino, Extending the Domino System, Maintaining the Domino System, and Configuring the Domino Network. The online database file name for Release 4.6 Administration Help is HELPADMIN.NSF.

Lotus Domino 4.6 Release Notes provides end-of-release information about new Domino features, software platform requirements, known limitations and restrictions, interoperability issues, and updates for the documentation set. The online database file name for the Release Notes is READMES.NSF.

Application development

Application Developer’s Roadmap provides a task-oriented overview of the Notes application development documentation.

Lotus Notes Designer for Domino 4.6 Application Developer’s Guide provides guidelines for new and experienced application developers on how to plan, create, and test a Notes application.

Lotus Notes 4.5 Database Manager’s Guide focuses on the tasks involved in managing Notes databases: rolling out new databases, managing the access control list, setting up replication, and monitoring database activity.
Lotus Notes Designer for Domino 4.6 Programmer’s Guide Part I and Part II provides guidelines for writing scripts and formulas. This book also contains a complete reference for the Notes formula language, @functions, @commands, and LotusScript® Notes classes.

Lotus Notes Designer for Domino 4.6 Java Programmer’s Guide provides guidelines for using the Java programming language to interact with Notes applications and databases.


Lotus Notes 4.6 Install Guide lists platform-specific instructions on installing and setting up Notes workstations for Lotus Notes Mail, Lotus Notes Desktop, and Lotus Notes Designer for Domino. The Install Guide is also available online as a database file named WKSINST.NSF.

Lotus Notes Designer for Domino 4.6 Release Notes provides end-of-release information about new Notes features, software platform requirements, known limitations and restrictions, interoperability issues, and updates for the documentation set. The online database file name for the Notes Release Notes is READMEC.NSF.

End-users

Lotus Notes 4.5 Step-By-Step is a beginner’s guide for learning how to perform common tasks.

Notes Help is a Notes database that provides context-sensitive information on all Notes client features, including information on designing and managing databases and using LotusScript. This information is also available in the Programmer’s Guide, the Application Developer’s Guide, and the Database Manager’s Guide. The database file name for Help is HELP4.NSF.

Notes Help Lite is a Notes database that provides context-sensitive information on most Notes client features. This database is a subset of Notes Help and is intended for mobile Notes users or users with limited disk space. The database file name for Help Lite is HELPLT4.NSF.
About using Lotus Web sites to locate additional information

Lotus provides several Web sites designed to help you locate the latest information on Domino, Notes, and other Lotus products:

- http://www.lotus.com is the main Lotus home page, which contains general information on Lotus products and services, including press releases, downloadable software, support, and purchasing information. You can use the Lotus home page to gain access to the sites and pages below or access them directly using the URLs provided.

- http://www2.lotus.com/services/notesua.nsf contains Domino, Notes, and related product documentation, browsable documentation databases, ordering information, tips on using the documentation, links to provide feedback, and the latest information on the product.

- http://www2.lotus.com/notes.nsf contains Notes product information and software. Use this Web site to download Notes products and review product specifications, demos, and press releases.

- http://domino.lotus.com contains the latest information on Domino, including software discussions, tips on creating Web applications, documentation, and bug reporting.

- http://www2.lotus.com/partners.nsf contains Notes application development and Business Partner information, including development tips and techniques, innovative applications, developer discussions, and updates on the latest product releases. You can also use this Web site to find out information and request an application for the Lotus Business Partner program.

- http://www2.lotus.com/developers/tools.nsf contains the latest tools and information for developing Notes applications and integrating them with back end systems, such as DBMS and transaction systems. Use this Web site to download the latest version of the Notes APIs, participate in software discussions, and review white paper and redbook information.

- http://www.net.lotus.com contains the latest information and software for Internet applications using Domino technology, such as Domino.Action™.

- http://support.lotus.com contains support information on Lotus products, including common questions and solutions, user discussions, downloadable files, and Lotus support phone numbers. You can also use this Web site to search the KnowledgeBase for technical information on Lotus products.

- http://www.lotus.com/notesmta contains information on Lotus Notes Messaging Services, which allow Domino administrators to set up mail routing from different mail systems. These Messaging Services include message transfer agents (MTAs), such as the SMTP/MIME, cc:Mail, and X.400 MTAs.

- http://www.lotus.com/systems contains information on systems management and software distribution utilities you can use to manage Domino and Notes.

- http://www.lotus.com/contacts contains telephone numbers, e-mail addresses, and mail addresses to use when you need to contact Lotus.

- http://www.support.lotus.com/css/feedback.htm lets you provide feedback and suggestions for Lotus products. Lotus uses these suggestions to help plan and improve Lotus products.

To access information on the Web, you must use a Web browser, such as the Web Navigator. If you need information on connecting your Notes workstation to the Web, see your server administrator.
Chapter 1
Installing Domino on OS/2 Warp Servers

This chapter describes how to install and set up Domino on IBM® OS/2® Warp servers.

About Lotus Domino server for OS/2 Warp system requirements

Before you install Domino, install the Domino-supported hardware, software, and network operating system. When possible, use the recommended equipment, rather than the minimum required, to improve performance and make maintenance easier.

Required hardware and software

The Lotus Domino server for OS/2 Warp requires the following hardware and software:

- A PC with an Intel 80486 or Pentium processor
- OS/2 Warp Server 4 (Entry, Advanced, and with SMP)
- 32MB of RAM minimum memory; 48MB recommended
- 300MB minimum disk space; 500MB recommended
- 16MB disk swap space
- A color monitor
- A mouse
- A printer supported by OS/2 Warp (optional)
- A modem (necessary to dial in to the server)

Note Minimum and recommended RAM amounts include the minimum amount of RAM required for the operating system as specified by the operating system vendor.
Disk space requirements include estimated free disk space amounts for minimum functioning systems (for example, one or more mail databases and applications).

For more information on the Domino server platform system requirements, see the Domino Release Notes.
Supported networks and protocols

The Domino server for OS/2 Warp runs with the following network protocols:

- AppleTalk (not on OS/2 Warp Server SMP)
- Banyan VINES (not on OS/2 Warp Server SMP)
- TCP/IP
- X.PC
- X.25
- SNA

**Note** Servers in clusters can run only with the TCP/IP and X.PC protocols.

For more information on networks and protocols, see *Configuring the Domino Network*.

Supported Notes Release 4.6 workstations

The Domino server for OS/2 Warp can connect to Lotus Notes Release 4.6 workstations running on the following platforms:

- AIX® 4.1.5 or 4.2.1
- HP-UX 10.20
- Sun Solaris Intel Edition 2.5.1, or Sun SPARC Solaris 2.5.1
- Windows 95 or Windows NT 4.0

About the Domino server Install program for OS/2 Warp

The Domino server Install program accomplishes three tasks. It copies and decompresses the Domino server files and administrator (workstation) files into specified directories, updates the operating system configuration file (CONFIG.SYS), and creates the default Domino configuration file (NOTES.INI).

With the Lotus Domino Advanced Services license for OS/2 Warp, you gain two primary server enhancements: Domino server clusters and billing features. A Domino cluster is a group of up to six Domino servers in the same domain connected by a local area network. The Domino billing feature enables a Domino server to track system usage. The Domino billing server task collects this information and records the data for billing processes. For more information on Advanced Services, see Chapters 9, 10, and 11 of *Extending the Domino System*.
Before you can use Lotus Domino on your computer, you must complete both the server Install program and the server Setup program.

**Alternatives to installing from CD-ROM**

Lotus ships the Domino files on CD-ROM. However, you can set up installation alternatives for users without a CD-ROM drive. You can

- Create a set of install disks by copying the contents of the DISK_KIT directory onto disks. You must first use the OS/2 Warp LABEL command to label each disk with the directory name, and then you can copy the contents onto disks.
- Create a distribution area on a file server so users can run the Install program across a network.
- Create a response file so users can run an automated installation that requires no interaction.

For information on how to set up these installation environments, see Chapter 2 of *Getting Started with Domino*.

You can also install Domino by using commonly available software distribution utilities, such as Intel LANDesk, Microsoft SMS, Tivoli/Courier™, and others. For more information and up-to-date technical assistance, see the Lotus Web site at http://www.lotus.com/systems/.

**Install methods**

Domino offers the following install methods:

- **Server installation** installs the Domino server for OS/2 Warp to a local computer. You select the components you want to install.

- **Advanced Services** installs the Domino server for OS/2 Warp with Advanced Services — clusters and billing. You select the components you want to install.

**List of install components**

Familiarize yourself with the following components before you start the Install program.

- **Domino Server** contains the program, data, and template files needed to run a Domino server. Domino servers provide services to Notes workstation users and other Domino servers, including storing shared databases, replicating databases, and routing mail. You must select the Domino Server and Notes Data options to run a Domino server.
Advanced Services contains the files necessary for installing Domino server clusters — to connect up to six Domino servers together for maximum availability — and billing features — to track and record system usage.

SMTP MTA contains files that allow Domino to route Internet mail using the Simple Mail Transfer Protocol (SMTP) Message Transfer Agent (MTA).

Modem Scripts contains the files necessary for installing files to use modems with the Domino server and Notes workstation.

Notes Viewers offers filters for viewing attached files, such as spreadsheets and word processing documents, when the associated application is not installed on the local system.

Notes Data contains files that identify you and how you installed Notes on your computer. You must select the Notes Data option to run a Domino server.

Additional Dictionaries contains files for international dictionaries.

Documentation databases includes guides to installation and Domino administration. Lotus recommends you install this feature so workstation users can access these databases.

Notes Release 4 Help is a database that provides complete documentation on Notes features, as well as documentation on managing databases, creating applications, and using LotusScript. Lotus recommends you install this feature so workstation users can access this database.

Notes Help Lite is a database that provides context-sensitive information about most Notes features. This feature is highly recommended for anyone using Notes remotely. Although Help Lite is a subset of Help, Lotus recommends you install Help Lite so workstation users can access this database.

Getting online Help during Install

If you need online Help at any time during the Install program, press F1 or click the Help button in the bottom right corner of the screen to receive context-sensitive Help.
Completing pre-install tasks

Follow these steps before you install Domino.

1. Make sure that the required hardware and software components are in place and working.
2. Temporarily disable any screen savers and turn off any virus-detection software.
3. Make sure that all other applications are closed. Otherwise, you may corrupt any shared files and the Install program may not run properly.
4. Read the Domino Release Notes for any last-minute changes or additions to the documentation.
5. If you are upgrading to Domino:
   - Copy any customized template (.NTF), modem (.MDM), script (.SCR), bitmap (.BMP), macro (.MAC), and SmartIcons® (.SMI and .TBL) files to a temporary directory.
   - Copy your NAMES.NSF, NOTES.INI, and ID files to a temporary directory to save your current setup. Using your old NOTES.INI file with the new release of Domino may affect how Domino runs.
   - Copy your DESKTOP.DSK file to a temporary directory to save the database icons you have added to your workspace.

Installing the Domino server for OS/2 Warp

1. Complete the pre-install tasks.
2. From the OS/2 Warp Program Manager, open an OS/2 Warp window.
3. Do one of the following:
   - To install Domino from CD-ROM, insert the Lotus Domino CD-ROM in the CD-ROM drive.
   - To install Domino from a set of disks, insert the first Domino Install disk in the disk drive. (For instructions on how to create a set of install disks, see Chapter 2 of Getting Started with Domino.)
   - To install Domino from a file server, get the location of the file server that contains the Domino program files.
4. Type
   \[ \text{drive: \directory\instpm} \]
   where \text{drive} and \text{directory} specify the location of the Lotus Domino server for OS/2 Warp Install program. On the CD-ROM, the directory is OS2. Press ENTER.
5. Do one of the following:
   - To install the Domino server, select Server installation and click OK.
   - To install the Domino server with Advanced Services, select Advanced Services and click OK. Click Yes if you have purchased the Lotus Domino Advanced Services license and agree to the terms. If not, click No and select Server installation. Click OK.
     For file server installation, see Chapter 2 of *Getting Started with Domino*.

6. Click Continue.

7. Select Update CONFIG.SYS to update the CONFIG.SYS file with the Domino server path information. Lotus strongly recommends you allow Domino to update CONFIG.SYS. If you don’t, you must manually update the file later. Click OK.

8. Click a feature to select to install it. Click Select All to install all features available for Domino servers. You must select at least the Domino Server and Notes Data options to run a Domino server. If you are installing the Domino server with Advanced Services, you must also select the Advanced Services option.

9. Enter the drive and directories where you want Domino program files and Domino data files to reside. By default, the Install program installs the program files in C:\NOTES and the data files in C:\NOTES\DATA.

10. Click Disk space to check how much space is available on the drives. You can select another drive for installation, if necessary. Click OK.

11. Click Install to begin installation. If you are installing Domino from a set of disks, insert each disk when prompted and click OK.

12. Click OK when the installation is complete.

13. Restart your computer so the changes that the Install program made can take effect.

14. Go to “About setting up a new Domino server.”
About the server Setup program

After you successfully install the Domino server program, Domino places the Lotus Domino Server icon and the Lotus Notes Workstation icon (for the administrator) in a Lotus Applications folder on your OS/2 desktop. The first time you double-click the Notes workstation icon, the server Setup program automatically starts. You must complete the server Setup program before you can run the Domino server. If you try to start the Domino server without first completing the Setup program, the server exits with the message: “You must first run the workstation to set up your system.” To restart the server Setup process, double-click the Notes workstation icon.

Before you start the Setup program, familiarize yourself with the following Domino terms:

**Domino server ID**
Each Domino server has a unique name that is maintained in its own ID file. Domino creates the server ID automatically during the server Setup program.

**Notes user ID**
Each Notes user has a unique name that is maintained in its own ID file. Domino creates the user ID when you register new users.

**Certifier ID**
Each grouping of Domino servers, known as a domain, has an organization certifier ID that is stored in a file named CERT.ID. This certifier automatically certifies the first server’s ID and the administrator’s ID. When you register new users or servers, you use the certifier ID to give access to the domain. You also use the organization certifier ID when you create organizational unit certifiers for a hierarchical name scheme.

Domino creates the organization certifier ID automatically during the first server Setup program using the organization name you specify and an optional country code. You can only add a country code if your country’s clearinghouse for X.500 names has approved your organization name. Doing this minimizes the chance that another organization has the same organization name as yours. A multinational organization requires only one certifier ID, even if a country code is specified; it’s not necessary to have separate certifier IDs for each country in which Domino is deployed.

**Domain**
A domain is a group of Domino servers that share the same Public Address Book.
Public Address Book
Each domain has a Public Address Book. The Public Address Book is the control and administration center for Domino servers in the domain. It contains a Server document for each server and a Person document for each user. In addition, you can create Group documents to establish relationships among servers and users for mailing and security purposes, and create Connection documents to schedule replication and mail routing among servers.

For more information, see Planning the Domino System and Getting Started with Domino.

About what happens during first server setup
Here is an overview of what happens when you run first server setup. Before you set up the first Domino server, you should make decisions about the names you will use for the domain, Domino named network, and server. For more information, see Planning the Domino System and Getting Started with Domino.

Note A Domino server cluster member may or may not be the first server in a domain. For all Domino servers, only choose first server setup when you are setting up Domino for the first time in your company or when you are creating a new domain.

The first server setup does the following:

- Creates a new domain for the Domino servers.
- Enables the appropriate network and serial ports on OS/2. For NLM, you must specify the network type.
- Creates the Public Address Book for the domain. The Install program uses the PUBNAMES.NTF template to create the Public Address Book in the same directory you choose for Domino data files and gives it the default name NAMES.NSF.
- Creates an certifier ID for your organization. The Install program saves the organization certifier ID in the same directory you choose for Domino data files and gives it the default name CERT.ID.
- Creates a Certifier document in the Public Address Book. This document describes the certifier ID.
- Creates a server ID for the new server. The Install program saves the server ID in the same directory you choose for Domino data files and gives it the default name SERVER.ID.
- Certifies the server ID with the organization certifier ID.
• Creates a Server document in the Public Address Book. This document describes the first server, based on information that you specify during setup.
• Creates a Person document in the Public Address Book for the Domino administrator specified during the install process.
• Creates a user ID and a password for the Domino administrator and attaches it as a file named USER.ID to the administrator’s Person document in the Public Address Book.
• Certifies the administrator’s user ID with the organization certifier ID.
• Adds the administrator’s name and the server’s name as managers in the access control list of the Public Address Book.
• Adds the server name to the LocalDomainServers group in the Public Address Book.
• Creates the log file for the server in the same directory you choose for Domino data files and gives it the default name LOG.NSF.
• Creates a mail directory in the Domino data directory and a mail file in that directory for the Domino administrator
• Autodetects all ports.

Setting up a new Domino server

After installing a Domino server, set it up from the Domino Server Setup database (SETUP.NSF). You can leave the setup database at any time and return later with your information preserved by clicking Save & Quit in the top right of the screen. For more information about the choices you make, see the Quick Help on the right side of the screen.

1. Open the Notes workstation you installed with the Domino server. Notes automatically opens the Domino Server Setup database (SETUP.NSF).
2. If you are setting up the first Domino server in your organization, select First Domino Server and click the right arrow at the top right of the screen. If you are setting up an additional Domino server in your organization, select Additional Domino Server and click the right arrow.
3. Go to “Selecting a setup method.”
Selecting a setup method

Decide whether to set up the Domino server using default settings or whether to configure settings manually.

- If you want to use default settings from your installation information and your server for faster setup, choose Quick and Easy Setup and click the right arrow. Go to “Selecting the server audience for Quick and Easy Setup.”

- If you want to configure manually server settings for greater control, choose Advanced Setup and click the right arrow. Go to “Selecting the server audience for Advanced Setup.”

Note. You can return to a previous screen to change its settings by clicking the left arrow at the top right of the screen. The numbers at the top left of the screen indicate which of the four Setup screens you are in.

Selecting the server audience for Quick and Easy Setup

1. Select who can access the Domino server.
   - If you want Web browsers such as Microsoft Internet Explorer and Netscape Navigator to access data on the server, select Web Browsers.
   - If you want Internet mail clients using Post Office Protocol 3 (POP3), Internet Message Access Protocol (IMAP), and Simple Mail Transfer Protocol (SMTP) to access mail on the server, select Internet Mail Packages.
   - If you want Internet news readers using Network News Transfer Protocol (NNTP) to access news groups and discussions on the server, select News Readers.

2. Click the right arrow.

3. If you are setting up the first Domino server in your organization, go to “Verifying Administration settings for the first Domino server.” If you are setting up an additional Domino server, go to “Verifying Administration settings for additional Domino servers.”
Selecting the server audience for Advanced Setup

The database lists server tasks that are automatically installed on the Domino server in the Standard Services section. You cannot modify this section because these tasks are essential for the server to function.

1. Select who can access the server.
   - If you want Web browsers such as Microsoft Internet Explorer and Netscape Navigator to access data on the server, select HTTP to install the HyperText Transfer Protocol (HTTP) server task.
   - If you want Internet mail clients using Post Office Protocol 3 (POP3) to access mail on the server, select POP3 to install the POP3 server task.
   - If you want Internet mail clients using Internet Message Access Protocol (IMAP) to access mail on the server, select IMAP to install the IMAP server task.
   - If you want Internet directory clients using Lightweight Directory Access Protocol (LDAP) to access directory information on the server, select LDAP to install the LDAP server task.
   - If you want Internet mail clients to be able to send and receive mail on the server using Simple Mail Transfer Protocol (SMTP), select SMTP MTA to install the SMTP/MIME Message Transfer Agent on the server.
   - If you want Internet news readers using Network News Transfer Protocol (NNTP) to access news groups and discussions on the server, select NNTP.

2. Click the right arrow.

3. If you are setting up the first Domino server in your organization, go to “Changing the Administration Settings for the first Domino server.” If you are setting up an additional Domino server, go to “Changing the Administration settings for additional Domino servers.”
Verifying Administration settings for the first Domino server

This screen is initially presented in Read mode for you to verify server setup settings. For Help on what terms mean, click the blue labels and hold down the mouse button to read the Help.

1. Verify that the settings are correct.
2. If you want to change the settings, click the Edit button at the bottom of the screen. Go to “Changing the Administration Settings for the first Domino server.”
3. Click the Finish button at the top right of the screen.
4. Go to “Completing server setup.”

Verifying Administration settings for additional Domino servers

For Help on what terms mean, click the blue labels and hold down the mouse button to read the Help.

1. Enter the name of an existing Domino server from which the new server can obtain the domain Public Address Book.
2. Choose whether to connect to this existing server using your network or a serial port.
   • If you choose to connect over your network, enter the existing server’s network address.
   • If you choose to connect using a serial port, enter the existing server’s modem phone number.
3. Verify that the settings are correct.
4. If you want to change the settings, click the Edit button at the bottom of the screen. Go to “Changing Quick and Easy Administration settings for additional Domino servers.”
5. Click the Finish button at the top right of the screen.
6. Go to “Completing server setup.”
Changing the Administration Settings for the first Domino server

You can change the default server settings. For Help on what terms mean, click the blue labels and hold down the mouse button to read the Help.

1. In the Organization Identity section, do all of the following:
   - Enter an Organization Name. This is the name of your organization.
   - Enter a Domain Name. This is the name of the domain to which your Domino servers belong.
   - Enter a Certifier Name. This is the name of the certifier used to stamp Notes ID files so that you can authenticate their identity.
   - Select whether to create a new certifier ID or use an existing one. If your organization does not yet have a certifier ID, create a new one.
   - Enter a Certifier Password. The password must be at least 8 characters. Lotus recommends using passwords of at least 13 characters.
   For more information on domains, certifiers, and passwords, see Planning the Domino System.

2. In the New Server Identity section, do all of the following:
   - Enter a Server Name. This is the name of the new server. Users and other servers access the server using this name.
   - Select whether to create a new server ID or use an existing one. If your organization does not yet have a Domino server ID, create a new one.

3. In the Administrator’s Identity section, do all of the following:
   - Enter a First Name, Middle Initial (M.I.), and Last Name for the server Administrator.
   - Enter a password for the Administrator’s ID. The password must be at least 8 characters. Lotus recommends using a password of at least 13 characters.
   - Select whether to create an administrator ID or use an existing one. If your organization does not yet have an administrator ID, create one.

4. If you are performing Advanced Setup, in the Network Options section, do any or all of the following:
   - Select whether to use all available ports or to customize ports.
   - If you choose to customize ports, click Edit Ports. For each port, select a protocol, enter a network address, enable or disable the port, and click OK.
   - Click Add Proxies to use proxy servers with Domino, then do any of the following and click OK:

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- Enter a port and domain name or IP address for the HTTP proxy.
- Enter a port and domain name or IP address for the SOCKS proxy.
- Select whether to use the HTTP proxy for the FTP, Gopher, and SSL Security proxies. If you want to use a separate proxy for these protocols, deselect “Use same proxy for Internet protocols” and enter a port and domain name or IP address for each protocol for which you have a proxy.
- If you use an HTTP proxy and want to use Notes protocols, such as replication, on the Internet, enter the port and domain name or IP address for the HTTP server in the Notes RPC field. This lets servers in your organization communicate with other Domino servers over the Internet. Your HTTP proxy must support the HTTP Connect method to use this method.
- If you use a proxy for the Internet and do not want to connect to addresses on your local area network (LAN) through the proxy, enter these LAN addresses in the “No proxy for these hosts or domains” field. This field sets access for all proxy servers. You can enter domain names or IP addresses and use wild cards; for example, *.acme.com is an acceptable entry.

5. In the Communications Port Options section, do any of the following:
   - Select a Serial Port.
   - Click Setup to change the settings for the serial port.
   - Select a Modem.
   - Click Script to change the modem script.

6. If you are performing Advanced Setup and chose to install the SMTP MTA, do any of the following:
   - Enter the domain name or IP address of a relay host for the SMTP MTA if your organization uses a firewall or routes mail through a relay host.
   - Select a language for the SMTP MTA to use from the list in the Language parameter field.

7. When you have finished editing the server settings, click OK.
8. Verify that the server settings are correct and click Finish.
9. Go to “Completing server setup.”
Changing Quick and Easy Administration settings for additional Domino servers

You must enter the name and location of a server from which the new Domino server can obtain the domain address book. For Help on what terms mean, click the blue labels and hold down the mouse button to read the Help.

1. Enter the name of a server with a copy of the Public Address Book for the new server’s domain.

2. Choose whether to connect to the server with the Public Address Book using your Network or a Serial Port.
   - If you select Network, enter a network address for the server.
   - If you select Serial Port, enter a phone number for the server.
   You must have an entry in each of the above fields to set up your server successfully.
   In addition, you can change the default server settings. To edit other server settings, click the Edit button at the bottom of the screen.

3. Enter a name for the server in the Server Name field.

4. Choose whether the server ID is stored in a file or in the Public Address Book for the server’s domain.

5. Enter the name of a server with a copy of the Public Address Book for the new server’s domain.

6. Choose whether to connect to the server with the Public Address Book using your Network or a Serial Port.
   - If you select Network, enter a network address for the server.
   - If you select Serial Port, enter a phone number for the server.
   You must have an entry in each of the above fields to set up your server successfully.

7. In the Communications Port Options section, do any or all of the following:
   - Select a Serial Port.
   - Click Setup to change the settings for the serial port.
   - Select a Modem.
   - Click Script to change the modem script.

8. When you have finished editing the server settings, click OK.

9. Verify that the server settings are correct and click Finish.

10. Go to “Completing server setup.”
Changing Advanced Administration settings for additional Domino servers

For Help on what terms mean, click the blue labels and hold down the mouse button to read the Help.

1. Enter a name for the server in the Server Name field.

2. Choose whether the server ID is stored in a file or in the Public Address Book for the server’s domain.

3. Enter the name of a server with a copy of the Public Address Book for the new server’s domain.

4. Connect to the server with the Public Address Book.
   - If you select Network, enter a network address for the server.
   - If you select Serial Port, enter a phone number for the server.

5. In the Network Options section, do any of the following.
   - Choose to use all available ports or to customize ports.
   - If you choose to customize ports, click Edit Ports. For each port, select a protocol, enter a network address, and enable or disable the port. Click OK.
   - Click Add Proxies to use proxy servers with Domino, then do any of the following and click OK:
     - Enter a port and domain name or IP address for the HTTP proxy.
     - Enter a port and domain name or IP address for the SOCKS proxy.
     - Select whether to use the HTTP proxy for the FTP, Gopher, and SSL Security proxies. If you want to use a separate proxy for these protocols, deselect “Use same proxy for Internet protocols” and enter a port and domain name or IP address for each protocol for which you have a proxy.
     - If you use an HTTP proxy and want to use Notes protocols, such as replication, on the Internet, enter the port and domain name or IP address for the HTTP server in the Notes RPC field. This lets servers in your organizations communicate with other Domino servers over the Internet. Your HTTP proxy must support the HTTP Connect method for this option to work.
     - If you use a proxy for the Internet and do not want to connect to addresses on your local area network through the proxy, enter these addresses in the “No proxy for these hosts or domains” field. This field sets access for all proxy servers. You can enter domain names or IP addresses and may use wild cards; for example, *.acme.com is an acceptable entry.
6. In the Communications Port Options section, do any of the following:
   - Select a Serial Port.
   - Click Setup to change the settings for the serial port.
   - Select a Modem.
   - Click Script to change the modem script.

7. If you chose to install the SMTP MTA, do any of the following:
   - Enter the domain name or IP address of a relay host for the SMTP MTA if your organization uses a firewall or routes mail through a relay host.
   - Select a language for the SMTP MTA to use from the list in the Language parameter field.

8. When you have finished editing the server settings, click OK.
9. Verify that the server settings are correct and click Finish.
10. Go to “Completing server setup.”

Completing server setup

After you finish setting up the server, the Domino Server Setup database displays a Congratulations screen with the server name, domain name, server ID name, server ID password, certifier ID name, certifier ID password, administrator ID name, and administrator ID password.

- To close the database and go to the Notes client workspace, click Exit to Workspace.
- To run the Domino server program, click Launch Domino Server.
- To register new users, click Register Users. Each user must possess a valid license.

After you choose, Notes prompts you to write down the server ID password, certifier ID password, and administrator’s ID password. Be careful to keep these passwords secure.
Starting and shutting down the Domino server

Start the Domino server so users can access shared databases and obtain other server services. Do not enter keystrokes or click the mouse while the Domino server is starting or shutting down.

**Note** If the server program is running, do not use CTRL+S to stop scrolling the console, because no server services take place until you press a key to continue.

- To start the server, double-click the Lotus Domino server icon.
- To shut down the Domino server, type `exit`
  or
  `quit`
  and press ENTER. It may take 10 seconds or more for the server to shut down.

For more information on server commands, see Appendix B of *Getting Started with Domino*.

About using the Quick Start to a Web site database

If you install the Domino Web server or the Notes Designer for Domino client, the Install program automatically adds the Quick Start to a Web site database to your workspace. The nine-step Quick Start teaches you to use the Notes Designer for Domino Web Pages database. Use the familiar Notes interface to design and build your site.

After using the Quick Start, you will be familiar with some basic Notes Designer concepts such as:

- Creating databases using templates
- Creating documents within a database
- Creating links
- Navigating on the Notes Designer Workspace
About Domino server security

It is crucial to keep the Domino server secure. To prevent unauthorized users from accessing sensitive information on the server, keep the Domino server in a locked room or in a location where you can watch it, and use the Set Secure command to assign the server a password to prevent unauthorized changes while the server is running.

To set the password, enter the following server command at the console:

```
Set Secure password
```

where `password` is a password that you specify.

To exit the server, you must enter the password when using the Exit or Quit command. While the Set Secure command is in effect, you cannot use the Load, Set Config, and Tell commands, and you cannot use the Notes workstation program on the server machine.

To remove the password, type

```
Set Secure
```

again with the same password.

For more information on server security, see Chapter 6 of Getting Started with Domino.
Chapter 2
Installing Domino on Windows Servers

This chapter describes how to install and set up Domino on Microsoft Windows 95 and Windows NT 4.0 servers.

About the Lotus Domino server for Windows system requirements

Before you install Domino, install the Domino-supported hardware, software, and network operating system. When possible, use the recommended equipment, rather than the minimum required, to improve performance and make maintenance easier.

Required hardware and software for Windows servers

The Lotus Domino server for Windows requires the following hardware and software:

- A PC with an Intel 80486 or Pentium processor or system with a Digital Alpha processor (only if you are using Windows NT)
- One of the following operating systems
  - Microsoft Windows 95
  - Microsoft Windows NT version 4.0
  
  **Note** If you are using the Standard Edition of Windows NT, check the list of supported software on the side panel of the box containing the Lotus Domino Server for Windows NT software or check with your local reseller.

- Memory
  - 16MB of RAM minimum for Windows 95; 24MB recommended
  - 32MB of RAM minimum for Windows NT 4.0; 48MB recommended
  
  **Note** Partitioned servers on Windows NT require an additional 32MB for each additional server installed.

- Disk space
  - 150MB minimum for Windows 95; 300MB recommended
  - 300MB minimum for Windows NT 4.0; 500MB recommended
**Note**  Partitioned servers on Windows NT require an additional 100MB for each additional server installed.

- Disk swap space
  - 16MB for Windows 95
  - 64MB for Windows NT 4.0
- A color display supported by Microsoft Windows
- A mouse
- A printer (optional, but highly recommended)
- A modem (necessary to dial in to the server)

**Note**  Minimum and recommended RAM amounts include the minimum amount of RAM required for the operating system as specified by the operating system vendor.

Disk space requirements include estimated free disk space amounts for minimum functioning systems (for example, one or more mail databases and applications).

For more information on the Domino server platform system requirements, see the Domino Release Notes.

**Supported networks and protocols**

The Lotus Domino server for Windows runs with the following network protocols:

- Banyan VINES (not on Windows 95, Windows NT/Alpha, or SMP)
- NetBIOS/NetBEUI
- Novell NetWare SPX
- Novell NetWare SPX II (Windows NT only)
- TCP/IP
- SNA (not on Windows 95)
- X.PC
- X.25 (not on Windows 95)

**Note**  Servers in clusters and partitioned servers on Windows NT can run only with the TCP/IP and X.PC protocols.

For more information on networks and protocols, see *Configuring the Domino Network*.
**Supported Notes Release 4.6 workstations**

The Domino server for Windows can connect to Lotus Notes workstations running on the following platforms:

- AIX 4.1.5 or 4.2.1
- HP-UX 10.20
- Sun Solaris Intel Edition 2.5.1, or Sun SPARC Solaris 2.5.1
- Windows 95 or Windows NT 4.0

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**About the Lotus Domino partitioned server for Windows NT system requirements**

Before you install Domino, install the Domino-supported hardware, software, and network operating system. When possible, use the recommended equipment, rather than the minimum required, to improve performance and make maintenance easier.

**Required hardware and software for Domino partitioned servers**

The Lotus Domino partitioned server for Windows NT requires the following hardware and software:

- A PC with an Intel 80486 or Pentium processor or system with a Digital Alpha processor
- Microsoft Windows NT version 4.0
  
  **Note** If you are using the Standard Edition of Windows NT, check the list of supported software on the side panel of the box containing the Lotus Domino Server for Windows NT software or check with your local reseller.

- 48MB of RAM minimum memory; 64MB recommended for the first server; an additional 32MB recommended for each additional Domino partitioned server
- 300MB minimum disk space; 500MB recommended for the first server; an additional 100MB recommended for each additional Domino partitioned server
- 64MB of disk swap space
- A color display supported by Microsoft Windows NT
- A mouse
- A printer (optional)
- A modem (necessary to dial in to the server)
**Note**  Minimum and recommended RAM amounts include the minimum amount of RAM required for the operating system as specified by the operating system vendor.

Disk space requirements include estimated free disk space amounts for minimum functioning systems (for example, one or more mail databases and applications).

For more information on the Domino server platform system requirements, see the Domino Release Notes.

**Supported networks and protocols**

The Lotus Domino partitioned server for Windows NT runs with the following network protocols:

- TCP/IP
- X.PC

For more information on networks and protocols, see *Configuring the Domino Network*.

**Supported Notes Release 4.6 workstations for Domino partitioned servers**

The Lotus Domino partitioned server for Windows NT can connect to Lotus Notes workstations running on the following platforms:

- AIX 4.1.5 or 4.2.1
- HP-UX 10.20
- Sun Solaris Intel Edition 2.5.1, or Sun SPARC Solaris 2.5.1
- Windows 95 or Windows NT 4.0

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**About the Domino server Install program for Windows**

The Domino server Install program accomplishes four tasks. It copies and decompresses the Domino server files and administrator (workstation) files into specified directories, updates the operating system configuration file (WIN.INI), creates the default Domino configuration file (NOTES.INI), and updates the Windows Registry information in HKEY_CLASSES_ROOT and HKEY_LOCAL_MACHINE.

To integrate your Domino environment with the Internet, the Domino server Install program installs components for the Notes Web Navigator and the Domino Web server. However, you must complete additional configuration steps before you can use either the Web Navigator or the Domino Web
server. For the configuration steps and more information about Internet integration, see *Extending the Domino System*.

With the Lotus Domino Advanced Services license, you gain three primary server enhancements: Domino server clusters, partitioned servers, and billing features. (Domino partitioned servers are supported only on Windows NT Intel and Alpha, and UNIX.) A Domino cluster is a group of up to six Domino servers in the same domain connected by a local area network. A Domino partitioned server shares the resources of a single computer with other Domino servers. The Domino billing feature enables a Domino server to track system usage. The Domino billing server task collects this information and records the data for billing processes. For more information on Advanced Services, see Chapters 9, 10, and 11 of *Extending the Domino System*.

You must complete both the server Install program and the server Setup program before you can use your Domino server.

### Alternatives to installing from CD-ROM
Lotus ships the Domino Release 4.6 files on CD-ROM. However, you can set up installation alternatives for users without a CD-ROM drive. You can

- Create a set of install disks by copying the contents of the DISK_KIT directories onto disks.
- Create a distribution area on a file server so users can run the Install program across a network.
- Create a shared program directory on a file server so users can run Notes without installing the program files on their computers.
- Create a response file so users can run an automated installation that requires no interaction.

For information on how to set up these installation environments or further customize files for a Windows installation, see Chapter 2 of *Getting Started with Domino*.

You can also install Domino by using commonly available software distribution utilities, such as Intel LANDesk, Microsoft SMS, Tivoli/Courier, and others. For more information and up-to-date technical assistance, see the Lotus Web site at http://www.lotus.com/systems/.

### Install methods
Domino offers the following server install methods:

**Domino server** installs all the components needed to run the Domino server for Windows.
**Domino Mail server** installs all the components needed to run the Domino mail server for Windows.

**Customize features - Manual install** lets you select which components you want to install. At a minimum you must select the Domino server and Personal Data Files to run a Domino server. For Domino Advanced Services, you must also click the Advanced Services tab and select Domino Partitioned Server and Advanced Services Data for partitioned servers on Windows NT, or Advanced Services and Advanced Services Data for clusters and billing on all platforms.

**List of install components**

If you choose Customize features - Manual install, you can select which components you want to install. Familiarize yourself with the following components before you start the Install program.

**Notes tab**

**Lotus Domino Server** contains the program, data, and template files needed to run a Domino server. Domino servers provide services to Notes workstation users and other Domino servers, including storing shared databases, replicating databases, and routing mail. At minimum you must select the Lotus Domino Server and Personal Data Files components to run a Domino server.

**Additional Dictionaries** contains files for international dictionaries.

**SMTP Support** contains files that allow Domino to route mail using the Simple Mail Transport Protocol (SMTP).

**Personal Data Files** contains files that identify you and how you installed Notes on your computer. You must select Personal Data Files to run a Domino server.

**Notes Modems** contains files that let you use modems with the Notes workstation and Domino server.

**Example Files** contains sample Web applications you can develop with the Notes Designer for Domino client.

**Documentation Databases** includes guides to installation and Domino administration. Lotus recommends you install this feature so workstation users can access these databases.

**Notes Release 4 Help** is a database that provides context-sensitive information about Notes features. Lotus recommends you install this feature so workstation users can access this database.
Notes Help Lite is a database that provides context-sensitive information about most Notes features. This feature is highly recommended for anyone using Notes remotely. Although Help Lite is a subset of Help, Lotus recommends you install Help Lite so workstation users can access this database.

Attachment Viewer offers filters for viewing attached files, such as spreadsheets and word processing documents, when the associated application is not installed on the local system.

Java support files contains files that enable the Notes Web Navigator to run Java applets.

Java Internationalization contains files for Java applets or Java Agents that use the internationalization support provided in Java Development Kit (JDK) 1.1. Selecting this option installs the Java classes that support the JDK 1.1 “locale” mechanism.

Single Password Logon installs files that enable users to use their Windows NT password for their Notes identification. You must be a local Windows NT administrator to install this feature. This feature is available only on Windows NT.

Notes Performance Monitor installs files so you can add the Domino Server to the Performance Monitor on Windows NT systems. This feature is available only on Windows NT.

Notes Service Install installs files so the Domino server can run as a Windows NT service. This feature is available only on Windows NT.

User synchronization installs files so you can synchronize the Notes user and Windows NT account information. You must be a local Windows NT administrator to install this feature. This feature is available only on Windows NT. For more information, see Chapter 2 of Getting Started with Domino.

Advanced Services tab

Domino Partitioned Server contains the program and data files necessary for partitioned servers on Windows NT. To install partitioned servers, at minimum you must select the Domino Server, Notes Workstation, and Personal Data Files components on the Notes tab, and the Domino Partitioned Server and Advanced Services Data on the Advanced Services tab.
**Advanced Services** contains the program files necessary for installing Domino server clusters, which connect up to six Domino servers together for maximum availability, and billing features, which track and record system usage. When installing partitioned servers on Windows NT, only select this option for the first partitioned server.

**Advanced Services Data** contains the data files necessary for partitioned servers on Windows NT and for clusters and billing on all platforms. Because each Domino partitioned server on a computer needs its own data directory, you must select this option when installing each partitioned server on a computer.

**Getting online Help during Install**

If you need online Help at any time during the Install program, click the Help button located in the bottom right corner of the screen to receive context-sensitive Help.

**Completing pre-install tasks**

Follow these steps before you install Domino.

1. Make sure that the required hardware and software components are in place and working.
2. Temporarily disable any screen savers and turn off any virus-detection software.
3. Make sure that all other applications are closed. Otherwise, you may corrupt any shared files and the Install program may not run properly.
4. Read the Domino Release Notes for any last-minute changes or additions to the documentation.
5. If you are upgrading to Domino:
   - Copy any customized template (.NTF), modem (.MDM), script (.SCR), bitmap (.BMP), macro (.MAC), and SmartIcons® (.SMI and .TBL) files to a temporary directory.
   - Copy your NAMES.NSF, NOTES.INI, and ID files to a temporary directory to save your current setup. Using your old NOTES.INI file with the new release of Domino may affect how Domino runs.
   - Copy your DESKTOP.DSK file to a temporary directory to save the database icons you have added to your workspace.
6. If you are upgrading to the Domino Advanced Services from any previous release:
   - Remove all references to NOTES.INI and LOTUS.INI from your %Path%.

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• Edit the LOTUS.INI file in the %SYSTEMROOT% directory and remove the line that contains “Notes=c:\notes\...”

• Run the Registry Editor (%SYSTEMROOT%\system32\regedt32.exe). In the HKEY_LOCAL_MACHINE window, select Software - Lotus - Notes and delete the vserver entry.

Installing the Domino server for Windows

1. Complete the pre-install tasks.

2. Do one of the following:
   • To install Domino from CD-ROM, insert the Lotus Domino CD-ROM in the CD-ROM drive.
   • To install Domino from a set of disks, insert the first Domino Install disk in the disk drive. (For instructions on how to create a set of install disks, see Chapter 2 of Getting Started with Domino.)
   • To install Domino from a file server, get the location of the file server that contains the Domino program files.

3. Choose Start - Run from the Desktop Bar.

4. Type
   
   `drive: \directory \install`

   where drive and directory specify the location of the Lotus Domino server for Windows Install program. On the CD-ROM, the directory is W32INTEL (or W32ALPHA for Windows NT Alpha). Press ENTER.

5. Read the software license agreement. If you agree with the terms of the agreement, click I Agree. If you do not agree with the terms of the agreement, click I Disagree to end installation.

6. Enter your name and the company name, and click Next. Do not select “Install on a file server.”

7. Click Yes to confirm the names, or No to re-enter them.

8. If you are upgrading to Domino, a message appears indicating that there is already a copy of Notes installed on your hard disk. Click Next.

9. Choose one of the following install methods:
   • Select Domino server to install the files needed to run the Domino server.
   • Select Domino Mail server to install the files needed to run the Domino Mail server.
   • Select Customize features - Manual install to choose the features you want to install. You must select this option to install the Domino server with Advanced Services.

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10. Enter the drive and directories where you want Domino program files and Domino data files to reside. By default, the Install program installs the Domino program files in C:\NOTES and the Domino data files in C:\NOTES\DATA. Click Browse to choose from a list of available drives and directories.

**Note** If you are installing Domino partitioned servers on Windows NT, each partitioned server needs its own Domino data directory. The NOTES.INI file for each partitioned server is installed in its own data directory. Lotus recommends that you use the name of the partitioned server to name its data directory. For example, if your partitioned server is named Red, you would enter C:\NOTES\RED as the directory for the server data files.

**Caution** You should not use more than eight characters for the Domino program directory name or the Domino data directory name. Longer directory names may not map properly, causing the Domino preferences file, NOTES.INI, to be unable to locate the directory.

11. If you chose Customize features - Manual install, do the following:

- Select the features on the Notes tab that you want to install. At minimum you must select the Lotus Domino Server and Personal Data Files options to run a Domino server.

**Note** You must be a local Windows NT administrator to install the Single Password Logon or User synchronization features, because you need administrator privileges to create Windows NT Services and Registry entries.

**Caution** If you install Single Password Logon, your level of Domino security is determined by the security of the Windows NT system.

- If you purchased the Domino Advanced Services license, click the Advanced Services tab to select the Advanced Services you want to install. Select Advanced Services and Advanced Services Data to install the files for Domino server clusters and billing features. Select Domino Partitioned Server, Advanced Services, and Advanced Services Data to install the first Domino partitioned server on Windows NT.

**Note** Domino partitioned servers are supported only on Windows NT Intel and Windows NT Alpha.

- If you chose to install Advanced Services or Domino Partitioned Server, click Yes if you have purchased the Lotus Domino Advanced Services license and agree to the terms. Otherwise, click No and deselect the Advanced Services features. Click Next.
12. Select the program folder for the Notes icon and the Domino Server icon, or type a name to create a new one. The default is Lotus Applications. You can click New Folder and type a name for the new folder. Click Next.

13. Click Yes to begin copying the files.

14. Click Done when installation is complete.

15. If you installed features that create Windows NT Services and Registry entries (such as Single Password Logon, User synchronization, Notes Performance Monitor, and Notes Service Install), you must reboot your machine to activate the features.

16. If you want to install additional Domino partitioned servers, go to “Installing additional Domino partitioned servers on Windows NT.”

17. Go to “About the server Setup program.”

**Installing additional Domino partitioned servers on Windows NT**

Use this procedure to install the second and subsequent Domino partitioned servers on a Windows NT computer. You can install up to six Domino partitioned servers on one computer. Install the first partitioned server by following the steps in “Installing the Domino server for Windows.”

1. Choose Start - Run from the Desktop Bar.

2. Type
   ```plaintext
drive:\directory\install
   ```
   where `drive` and `directory` specify the location of the Lotus Domino server for Windows Install program. On the CD-ROM, the directory is W32INTEL (or W32ALPHA for Windows NT Alpha). Press ENTER.

3. Read the software license agreement. If you agree with the terms of the agreement, click I Agree. If you do not agree with the terms of the agreement, click I Disagree to end installation.

4. Enter your name and the company name, and click Next. Do not select “Install on a file server.”

5. Click Yes to confirm the names, or No to re-enter them.

6. If you are upgrading to Domino, a message appears indicating that there is already a copy of Notes installed on your hard disk. Click Next.
   For more information on upgrading partitioned servers, see the Domino Release Notes.

7. Select Customize features - Manual install to install the additional Domino partitioned servers.

8. Enter the drive and directory where you want this server’s Domino data files to reside. (When installing additional Domino partitioned servers,
the program directory field does not appear because all Domino
partitioned servers share the same program files.)

By default, the Install program lists the data directory as the name of the
first server with the numeral “2” at the end of the file name. For
example, if you installed the data files for the first partitioned server in
the directory named C:\NOTES\RED, the default data directory name
for the second partitioned server is C:\NOTES\RED2. Lotus
recommends that you use the name of the second partitioned server to
name its data directory. For example, if your second partitioned server is
named Blue, you would enter C:\NOTES\BLUE as the directory for the
server data files. You should follow the same procedure for each
additional Domino partitioned server you install.

9. Click Next. By default, both the Notes and Advanced Services tabs have
the appropriate features selected for an additional Domino partitioned
server install. Do not select or deselect any of the features. You do not
need to select the Advanced Services option for an additional partitioned
server install.

   **Caution** If you do not install the default features for an additional
Domino partitioned server, your partitioned server configuration will
not be supported.

10. Click Yes to indicate you have purchased the Lotus Domino Advanced
Services license and agree to the terms. Then click Next.

11. Select the program folder for the Notes icon and the Domino Server icon,
or type a name to create a new one. The default is Lotus Applications.
Click Next.

12. Click Yes to begin copying the files.

13. Click Done when installation is complete. Repeat this procedure for each
additional Domino partitioned server you want to install.

14. After installing your Domino partitioned servers, proceed to set them
up. If you are installing the first server in an organization or domain, go
to “About setting up a new Domino server.” Otherwise, for information
on setting up additional servers, see Chapter 2 in *Getting Started with
Domino*.

For more information about setting up partitioned servers, clusters, and
billing, see Chapters 9, 10 and 11 in *Extending the Domino System.*
About the server Setup program

After you successfully install the Domino server program, Domino places the Lotus Domino Server icon and the Lotus Notes icon (for the administrator) in a folder on your Windows desktop. The first time you double-click the Notes icon, the server Setup program automatically starts. You must complete the server Setup program before you can run the Domino server. For Domino partitioned servers on Windows NT, you must run the server Setup program once for each partitioned server. If you try to start the Domino server without first completing the Setup program, the server exits with the message: “You must first run the workstation to set up your system.” To restart the server setup process, double-click the Notes workstation icon.

Before you start the Setup program, familiarize yourself with the following Domino terms:

**Domino server ID**
Each Domino server has a unique name that is maintained in its own ID file. Domino creates the server ID automatically during the server Setup program.

**Notes user ID**
Each Notes user has a unique name that is maintained in its own ID file. Domino creates the user ID when you register new users.

**Certifier ID**
Each grouping of Domino servers, known as a domain, has an organization certifier ID that is stored in a file named CERT.ID. This certifier automatically certifies the first server’s ID and the administrator’s ID. When you register new users or servers, you use the certifier ID to give access to the domain. You also use the organization certifier ID when you create organizational unit certifiers for a hierarchical name scheme.

Domino creates the organization certifier ID automatically during the first server Setup program using the organization name you specify and an optional country code. You can only add a country code if your country’s clearinghouse for X.500 names has approved your organization name. Doing this minimizes the chance that another organization has the same organization name as yours. A multinational organization requires only one certifier ID, even if a country code is specified; it’s not necessary to have separate certifier IDs for each country in which Domino is deployed.

**Domain**
A domain is a group of Domino servers that share the same Public Address Book.
Public Address Book
Each domain has a Public Address Book. The Public Address Book is the control and administration center for Domino servers in the domain. It contains a Server document for each server and a Person document for each user. In addition, you can create Group documents to establish relationships among servers and users for mailing and security purposes, and create Connection documents to schedule replication and mail routing among servers.

For more information, see Planning the Domino System and Getting Started with Domino.

About what happens during first server setup
Here is an overview of what happens when you run first server setup. Before you set up the first Domino server, decide about the names you will use for the domain, Domino named network, and server. For more information, see Planning the Domino System and Getting Started with Domino.

Note For all Domino servers, only choose First Domino Server when you are setting up Domino for the first time in your company or when you are creating a new domain. A Domino partitioned server or cluster member may or may not be the first server in a domain.

The first server setup does the following:

- Creates a new domain for the Domino servers.
- Enables the appropriate network and serial ports.
- Creates the Public Address Book for the domain. The Install program uses the PUBNAMES.NTF template to create the Public Address Book in the same directory you choose for Domino data files and gives it the default name NAMES.NSF.
- Creates a Certifier ID for your organization. The Install program saves the Certifier ID in the same directory you choose for Domino data files and gives it the default name CERT.ID.
- Creates a Certifier document in the Public Address Book. This document describes the Certifier ID.
- Creates a server ID for the new server. The Install program saves the server ID in the same directory you choose for Domino data files and gives it the default name SERVER.ID.
- Certifies the server ID with the organization certifier ID.
Setting up a new Domino server

After installing a Domino server, set it up from the Domino Server Setup database (SETUP.NSF). You can leave the setup database at any time and return later with your information preserved by clicking Save & Quit in the top right of the screen. For more information about the choices you make, see the Quick Help on the right side of the screen.

1. Open the Notes workstation you installed with the Domino server.
   Notes automatically opens the Domino Server Setup database (SETUP.NSF).

2. If you are setting up the first Domino server in your organization, select First Domino Server and click the right arrow at the top right of the screen. If you are setting up an additional Domino server in your organization, select Additional Domino Server and click the right arrow.

3. Go to “Selecting a setup method.”
Selecting a setup method

Decide whether to set up the Domino server using default settings or whether to configure settings manually.

- If you want to use default settings from your installation information and your server for faster setup, choose Quick and Easy Setup and click the right arrow. Go to “Selecting the server audience for Quick and Easy Setup.”
- If you want to configure server settings manually for greater control, choose Advanced Setup and click the right arrow. Go to “Selecting the server audience for Advanced Setup.”

**Note**  You can return to a previous screen to change its settings by clicking the left arrow at the top right of the screen. The numbers at the top left of the screen indicate which of the four Setup screens you are in.

Selecting the server audience for Quick and Easy Setup

1. Select who can access the Domino server.
   - If you want Web browsers such as Microsoft Internet Explorer and Netscape Navigator to access data on the server, select Web Browsers.
   - If you want Internet mail clients using Post Office Protocol 3 (POP3), Internet Message Access Protocol (IMAP), and Simple Mail Transfer Protocol (SMTP) to access mail on the server, select Internet Mail Packages.
   - If you want Internet news readers using Network News Transfer Protocol (NNTP) to access news groups and discussions on the server, select News Readers.
2. Click the right arrow.
3. If you are setting up the first Domino server in your organization, go to “Verifying Administration settings for the first Domino server.” If you are setting up an additional Domino server, go to “Verifying Administration settings for additional Domino servers.”
Selecting the server audience for Advanced Setup

The database lists server tasks that are automatically installed on the Domino server in the Standard Services section. You cannot modify this section because these tasks are essential for the server to function.

1. Select who can access the server.
   - If you want Web browsers such as Microsoft Internet Explorer and Netscape Navigator to access data on the server, select HTTP to install the HyperText Transfer Protocol (HTTP) server task.
   - If you want Internet mail clients using Post Office Protocol 3 (POP3) to access mail on the server, select POP3 to install the POP3 server task.
   - If you want Internet mail clients using Internet Message Access Protocol (IMAP) to access mail on the server, select IMAP to install the IMAP server task.
   - If you want Internet directory clients using Lightweight Directory Access Protocol (LDAP) to access directory information on the server, select LDAP to install the LDAP server task.
   - If you want Internet mail clients to be able to send and receive mail on the server using Simple Mail Transfer Protocol (SMTP), select SMTP MTA to install the SMTP/MIME Message Transfer Agent on the server.
   - If you want Internet news readers using Network News Transfer Protocol (NNTP) to access news groups and discussions on the server, select NNTP.

2. Click the right arrow.

3. If you are setting up the first Domino server in your organization, go to “Changing the Administration Settings for the first Domino server.” If you are setting up an additional Domino server, go to “Changing the Administration settings for additional Domino servers.”
Verifying Administration settings for the first Domino server

This screen is initially presented in Read mode for you to verify server setup settings. For Help on what terms mean, click the blue labels and hold down the mouse button to read the Help.

1. Verify that the settings are correct.
2. If you want to change the settings, click the Edit button at the bottom of the screen. Go to “Changing the Administration Settings for the first Domino server.”
3. Click the Finish button at the top right of the screen.
4. Go to “Completing server setup.”

Verifying Administration settings for additional Domino servers

For Help on what terms mean, click the blue labels and hold down the mouse button to read the Help.

1. Enter the name of an existing Domino server from which the new server can obtain the domain Public Address Book.
2. Choose whether to connect to this existing server using your network or a serial port.
   - If you choose to connect over your network, enter the existing server’s network address.
   - If you choose to connect using a serial port, enter the existing server’s modem phone number.
3. Verify that the settings are correct.
4. If you want to change the settings, click the Edit button at the bottom of the screen. Go to “Changing Quick and Easy Administration settings for additional Domino servers.”
5. Click the Finish button at the top right of the screen.
6. Go to “Completing server setup.”
Changing the Administration Settings for the first Domino server

You can change the default server settings. For Help on what terms mean, click the blue labels and hold down the mouse button to read the Help.

1. In the Organization Identity section, do all of the following:
   - Enter an Organization Name. This is the name of your organization.
   - Enter a Domain Name. This is the name of the domain to which your Domino servers belong.
   - Enter a Certifier Name. This is the name of the certifier used to stamp Notes ID files so that you can authenticate their identity.
   - Select whether to create a new certifier ID or use an existing one. If your organization does not yet have a certifier ID, create a new one.
   - Enter a Certifier Password. The password must be at least 8 characters. Lotus recommends using passwords of at least 13 characters.
   
   For more information on domains, certifiers, and passwords, see Planning the Domino System.

2. In the New Server Identity section, do all of the following:
   - Enter a Server Name. This is the name of the new server. Users and other servers access the server using this name.
   - Select whether to create a new server ID or use an existing one. If your organization does not yet have a Domino server ID, create a new one.

3. In the Administrator’s Identity section, do all of the following:
   - Enter a First Name, Middle Initial (M.I.), and Last Name for the server Administrator.
   - Enter a password for the Administrator’s ID. The password must be at least 8 characters. Lotus recommends using a password of at least 13 characters.
   - Select whether to create an administrator ID or use an existing one. If your organization does not yet have an administrator ID, create one.

4. If you are performing Advanced Setup, in the Network Options section, do any or all of the following:
   - Select whether to use all available ports or to customize ports.
   - If you choose to customize ports, click Edit Ports. For each port, select a protocol, enter a network address, enable or disable the port, and click OK.
   - Click Add Proxies to use proxy servers with Domino, then do any of the following and click OK:
- Enter a port and domain name or IP address for the HTTP proxy.
- Enter a port and domain name or IP address for the SOCKS proxy.
- Select whether to use the HTTP proxy for the FTP, Gopher, and SSL Security proxies. If you want to use a separate proxy for these protocols, deselect “Use same proxy for Internet protocols” and enter a port and domain name or IP address for each protocol for which you have a proxy.
- If you use an HTTP proxy and want to use Notes protocols, such as replication, on the Internet, enter the port and domain name or IP address for the HTTP server in the Notes RPC field. This lets servers in your organization communicate with other Domino servers over the Internet. Your HTTP proxy must support the HTTP Connect method to use this method.
- If you use a proxy for the Internet and do not want to connect to addresses on your local area network (LAN) through the proxy, enter these LAN addresses in the “No proxy for these hosts or domains” field. This field sets access for all proxy servers. You can enter domain names or IP addresses and use wild cards; for example, *.acme.com is an acceptable entry.

5. In the Communications Port Options section, do any of the following:
   - Select a Serial Port.
   - Click Setup to change the settings for the serial port.
   - Select a Modem.
   - Click Script to change the modem script.

6. If you are performing Advanced Setup and chose to install the SMTP MTA, do any of the following:
   - Enter the domain name or IP address of a relay host for the SMTP MTA if your organization uses a firewall or routes mail through a relay host.
   - Select a language for the SMTP MTA to use from the list in the Language parameter field.

7. When you have finished editing the server settings, click OK.
8. Verify that the server settings are correct and click Finish.
9. Go to “Completing server setup.”
Changing Quick and Easy Administration settings for additional Domino servers

You must enter the name and location of a server from which the new Domino server can obtain the domain address book. For Help on what terms mean, click the blue labels and hold down the mouse button to read the Help.

1. Enter the name of a server with a copy of the Public Address Book for the new server’s domain.

2. Choose whether to connect to the server with the Public Address Book using your Network or a Serial Port.
   - If you select Network, enter a network address for the server.
   - If you select Serial Port, enter a phone number for the server.

You must have an entry in each of the above fields to set up your server successfully.

In addition, you can change the default server settings. To edit other server settings, click the Edit button at the bottom of the screen.

3. Enter a name for the server in the Server Name field.

4. Choose whether the server ID is stored in a file or in the Public Address Book for the server’s domain.

5. Enter the name of a server with a copy of the Public Address Book for the new server’s domain.

6. Choose whether to connect to the server with the Public Address Book using your Network or a Serial Port.
   - If you select Network, enter a network address for the server.
   - If you select Serial Port, enter a phone number for the server.

You must have an entry in each of the above fields to set up your server successfully.

7. In the Communications Port Options section, do any or all of the following:
   - Select a Serial Port.
   - Click Setup to change the settings for the serial port.
   - Select a Modem.
   - Click Script to change the modem script.

8. When you have finished editing the server settings, click OK.

9. Verify that the server settings are correct and click Finish.

10. Go to “Completing server setup.”

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Changing Advanced Administration settings for additional Domino servers

For Help on what terms mean, click the blue labels and hold down the mouse button to read the Help.

1. Enter a name for the server in the Server Name field.

2. Choose whether the server ID is stored in a file or in the Public Address Book for the server's domain.

3. Enter the name of a server with a copy of the Public Address Book for the new server’s domain.

4. Connect to the server with the Public Address Book.
   - If you select Network, enter a network address for the server.
   - If you select Serial Port, enter a phone number for the server.

5. In the Network Options section, do any of the following.
   - Choose to use all available ports or to customize ports.
   - If you choose to customize ports, click Edit Ports. For each port, select a protocol, enter a network address, and enable or disable the port. Click OK.
   - Click Add Proxies to use proxy servers with Domino, then do any of the following and click OK:
     - Enter a port and domain name or IP address for the HTTP proxy.
     - Enter a port and domain name or IP address for the SOCKS proxy.
     - Select whether to use the HTTP proxy for the FTP, Gopher, and SSL Security proxies. If you want to use a separate proxy for these protocols, deselect “Use same proxy for Internet protocols” and enter a port and domain name or IP address for each protocol for which you have a proxy.
     - If you use an HTTP proxy and want to use Notes protocols, such as replication, on the Internet, enter the port and domain name or IP address for the HTTP server in the Notes RPC field. This lets servers in your organizations communicate with other Domino servers over the Internet. Your HTTP proxy must support the HTTP Connect method for this option to work.
     - If you use a proxy for the Internet and do not want to connect to addresses on your local area network through the proxy, enter these addresses in the “No proxy for these hosts or domains” field. This field sets access for all proxy servers. You can enter domain names or IP addresses and may use wild cards; for example, *.acme.com is an acceptable entry.
6. In the Communications Port Options section, do any of the following:
   - Select a Serial Port.
   - Click Setup to change the settings for the serial port.
   - Select a Modem.
   - Click Script to change the modem script.
7. If you chose to install the SMTP MTA, do any of the following:
   - Enter the domain name or IP address of a relay host for the SMTP MTA if your organization uses a firewall or routes mail through a relay host.
   - Select a language for the SMTP MTA to use from the list in the Language parameter field.
8. When you have finished editing the server settings, click OK.
9. Verify that the server settings are correct and click Finish.
10. Go to “Completing server setup.”

**Completing server setup**

After you finish setting up the server, the Domino Server Setup database displays a Congratulations screen with the server name, domain name, server ID name, server ID password, certifier ID name, certifier ID password, administrator ID name, and administrator ID password.

- To close the database and go to the Notes client workspace, click Exit to Workspace.
- To run the Domino server program, click Launch Domino Server.
- To register new users, click Register Users. Each user must possess a valid license.

After you choose, Notes prompts you to write down the server ID password, certifier ID password, and administrator’s ID password. Be careful to keep these passwords secure.
Installing Domino as a Windows NT service

Install Domino as a Windows NT service by choosing Customize features - Manual install and selecting Notes Service Install. The Install program automatically places the Domino server as an entry in the Services dialog box and enables it for automatic startup. If you do not select this option when you install the software, you can install the Lotus Domino server as a Windows NT service from the Domino program directory (C: \NOTES).

**Note** Domino partitioned servers cannot run as Windows NT services.

1. Choose Start - Programs - MS-DOS Prompt from the Desktop Bar.
2. At the c:\ prompt, type
   ```
   cd\notes
   ```
   Press ENTER.
3. At the c:\notes prompt, type
   ```
   ntsvinst -c
   ```
   Press ENTER.
4. Type
   ```
   exit
   ```
   Press ENTER.

Running Domino as a manual Windows NT service

To run the Domino server as a manual Windows NT service, start the server from the Services dialog box.

**Note** Domino partitioned servers cannot run as Windows NT services.

1. Choose Start - Settings - Control Panel from the Desktop Bar.
2. Double-click the Services icon.
4. Click Start to start the Domino server or Close to exit.

**Note** You can disable Domino running as a Windows NT service by changing the startup type to Disabled in the Services dialog box.
Running Domino as an automatic Windows NT service

Running Domino as an automatic Windows NT service is useful if you need to start the server from a remote location or to restart automatically after a system failure.

**Note** Domino partitioned servers cannot run as Windows NT services.

1. Choose Start - Settings - Control Panel from the Desktop Bar.
2. Double-click the Services icon.
4. Select Automatic as the startup type and select “System Account” in the “Log On As” dialog box.
5. Select “Allow Service to Interact with Desktop.”
   **Note** If you choose a different setting, the Domino server console will not appear.
6. Click OK.
7. Click Start to start the Domino server or Close to exit.
   **Note** You can disable Domino running as a Windows NT service by changing the startup type to Disabled in the Services dialog box.

Removing Domino as a Windows NT service

To remove Domino as a Windows NT service, you must “de-install” it from the Domino program directory.

1. If the Domino server is running, type
   ```
   exit
   ```
   and press ENTER to shut down the server.
2. Choose Start - Programs - MS-DOS Prompt from the Desktop Bar.
3. At the c:\ prompt, type
   ```
   cd\notes
   ```
   Press ENTER.
4. At the c:\notes prompt, type
   ```
   ntsvinst -d
   ```
   Press ENTER.
5. Type
   ```
   exit
   ```
Starting and shutting down the Domino server

Start the Domino server so users can access shared databases and obtain other server services. Do not enter keystrokes or click the mouse while the Domino server is starting or shutting down.

**Note** If the server program is running, do not use CTRL+S to stop scrolling the console, because no server services take place until you press a key to continue.

- To start the server, double-click the Lotus Domino server icon.
- To shut down the Domino server, type

  `exit`

  or

  `quit`

  and press ENTER. It may take 10 seconds or more for the server to shut down.

**Note** For Domino partitioned servers on Windows NT, if you are using TCP/IP port mapping and shut down the port mapper server, all other partitioned servers on the computer will be affected. For more information, see Chapter 10 in *Extending the Domino System*.

For more information on server commands, see Appendix B of *Getting Started with Domino*. 

Press ENTER.
6. Choose Start - Settings - Control Panel from the Desktop Bar.
7. Double-click the Services icon.
8. Make sure that Lotus Domino Server does not appear in the list of the Windows NT services and click Close to exit.

For more information on server commands, see Appendix B of *Getting Started with Domino*. 

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About using the Quick Start to a Web site database

If you install the Domino Web server or the Notes Designer for Domino client, the Install program automatically adds the Quick Start to a Web site database to your workspace. The nine-step Quick Start teaches you to use the Notes Designer for Domino Web Pages database. Use the familiar Notes interface to design and build your site.

After using the Quick Start, you will be familiar with some basic Notes Designer concepts such as:

- Creating databases using templates
- Creating documents within a database
- Creating links
- Navigating on the Notes Designer Workspace

Removing the Domino server software

You may need to remove the Domino server software from a computer — for example, when a user leaves the company or a computer is designated for another purpose. The quickest way to do this is to use the Uninstall program.

**Note** The Uninstall program does not remove any files from the Windows directory (such as NOTES.INI); you must remove these files manually. The Uninstall program also does not delete items in the Windows Registry in HKEY_LOCAL_MACHINE and HKEY_CLASSES_ROOT.

**Note** The Uninstall program is not supported for Domino partitioned servers on Windows NT. For information on removing partitioned servers, see Chapter 10 of *Extending the Domino System*.

Using the Uninstall program for Windows 95 and Windows NT 4.0

1. Choose Start - Settings - Control Panel from the Desktop Bar.
2. Double-click the Add/Remove Programs icon.
3. Go to the Install/Uninstall page of the Add/Remove Programs dialog box (if it is not already displayed).
4. Select Lotus Notes from the list box, and then click Add/Remove.
5. The Lotus Uninstall screen appears, asking you to confirm that you want to remove the Notes software. Click Yes.
6. Click OK when the Uninstall program is finished.
7. After using the Uninstall program, delete the Domino program and data directories.

---

**About Domino server security**

It is crucial to keep the Domino server secure. To prevent unauthorized users from accessing sensitive information on the server, keep the Domino server in a locked room or in a location where you can watch it, and use the Set Secure command to assign the server a password to prevent unauthorized changes while the server is running.

To set the password, enter the following server command at the console:

```
Set Secure password
```

where `password` is a password that you specify.

To exit the server, you must enter the password when using the Exit or Quit command. While the Set Secure command is in effect, you cannot use the Load, Set Config, and Tell commands, and you cannot use the Notes workstation program on the server machine.

To remove the password, type

```
Set Secure
```

again with the same password.

For more information on server security, see Chapter 6 of *Getting Started with Domino*. 

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Chapter 3
Installing Domino on UNIX Servers

This chapter describes how to install and set up Domino on UNIX servers.

About the Lotus Domino server for AIX system requirements

Before you install Domino, install the Domino-supported hardware, software, and network operating system. When possible, use the recommended equipment rather than the minimum to improve performance and make maintenance easier.

Required hardware and software

The Lotus Domino server for AIX requires the following hardware:

- An IBM RISC System/6000® with a PowerPC®, POWER, or POWER2 processor running IBM AIX version 4.1.5 or 4.2.1
- 128MB of RAM minimum memory
- 300MB minimum disk space (partitioned servers require an additional 100MB for each additional server installed); 500MB recommended
- 384MB disk swap space
- A color display supported by IBM AIX version 4.1.5 or 4.2.1
- A mouse
- A printer supported by IBM AIX version 4.1.5 or 4.2.1 (optional)
- A modem (necessary to dial in to the server)

Note Minimum and recommended RAM amounts include the minimum amount of RAM required for the operating system as specified by the operating system vendor.

Disk space requirements include estimated free disk space amounts for minimum functioning systems (for example, one or more mail databases and applications).

For more information on the Notes workstation and Domino server platform system requirements, see the Domino Release Notes.
Supported networks and protocols

The Lotus Domino server for AIX runs with the following network protocols:

- SPX
- SPX II
- TCP/IP (native)
- X.PC protocol (supplied with the Domino software)

For more information on networks and protocols, see Configuring the Domino Network.

Supported Notes Release 4.6 workstations

The Domino server for AIX can connect to Lotus Notes workstations running on the following platforms:

- AIX 4.1.5 or 4.2.1
- HP-UX 10.20
- Sun Solaris Intel Edition 2.5.1, or Sun SPARC Solaris 2.5.1
- Windows 95 or Windows NT 4.0

About the Lotus Domino server for HP-UX system requirements

Before you install Domino, install the Domino-supported hardware, software, and network operating system. When possible, use the recommended equipment, rather than the minimum required, to improve performance and make maintenance easier.

Required hardware and software

The Lotus Domino server for HP-UX requires the following hardware and software:

- HP 9000 Series with a PA-RISC processor running HP-UX 10.20
- 128MB of RAM minimum memory
- 300MB minimum disk space; 500MB recommended disk space (partitioned servers require an additional 100MB for each additional server installed)
- 384MB disk swap space
- A mouse
- A color display supported by HP-UX version 10.20
• A printer supported by HP-UX version 10.20 (optional)
• A modem (necessary to dial in to the server)

**Note** Minimum and recommended RAM amounts include the minimum amount of RAM required for the operating system as specified by the operating system vendor.

Disk space requirements include estimated free disk space amounts for minimum functioning systems (for example, one or more mail databases and applications).

For more information on the Notes workstation and Domino server platform system requirements, see the Domino Release Notes.

**Supported networks and protocols**

The Lotus Domino server for HP-UX runs with the following network protocols:

• SPX
• TCP/IP (native)
• X.PC protocol (supplied with the Domino software)

For more information on networks and protocols, see *Configuring the Domino Network*.

**Supported Notes Release 4.6 workstations**

The Domino server for HP-UX can connect to Lotus Notes workstations running on the following platforms:

• AIX 4.1.5 or 4.2.1
• HP-UX 10.20
• Sun Solaris Intel Edition 2.5.1, or Sun SPARC Solaris 2.5.1
• Windows 95 or Windows NT 4.0
About the Lotus Domino server for Solaris system requirements

Before you install Domino, install the Domino-supported hardware, software, and network operating system. When possible, use the recommended equipment, rather than the minimum required, to improve performance and make maintenance easier.

Required hardware and software

The Lotus Domino server for Solaris requires the following hardware:

- A Sun SPARC system running Sun Solaris 2.5.1, or a system with an Intel 80486 or Pentium processor running Sun Solaris Intel Edition 2.5.1
- 128MB of RAM minimum memory
- 300MB minimum disk space; 500MB recommended disk space (partitioned servers require an additional 100MB for each additional server installed)
- 384MB disk swap space
- A color display supported by Sun Solaris 2.5.1
- A mouse
- A printer supported by Sun Solaris 2.5.1 (optional)
- A modem (necessary to dial in to the server)

Note Minimum and recommended RAM amounts include the minimum amount of RAM required for the operating system as specified by the operating system vendor.

Disk space requirements include estimated free disk space amounts for minimum functioning systems (for example, one or more mail databases and applications).

For more information on the Notes workstation and Domino server platform system requirements, see the Domino Release Notes.

Supported networks and protocols

The Lotus Domino server for Solaris runs with the following network protocols:

- SPX II
- TCP/IP (native)
- X.PC protocol (supplied with the Domino software)

For more information on networks and protocols, see Configuring the Domino Network.
**Supported Notes Release 4.6 workstations**

The Domino server for Solaris can connect to Lotus Notes workstations running on the following platforms:

- AIX 4.1.5 or 4.2.1
- HP-UX 10.20
- Sun Solaris Intel Edition 2.5.1, or Sun SPARC Solaris 2.5.1
- Windows 95 or Windows NT 4.0

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**About the Domino server Install program for UNIX**

Using the Domino Install program for UNIX, you can install Domino on multiple hosts at one time. The Install program automatically installs the appropriate software for the operating system of each destination host. For example, to install Domino on AIX and HP-UX servers, you run the Install program once. The Install program installs the Domino server software for AIX on the AIX host and the Domino server software for HP-UX on the HP-UX host.

To integrate your Domino environment with the Internet, the Domino server Install program installs components for the Notes Web Navigator and the Domino Web server. However, you must complete additional configuration steps before you can use either the Web Navigator or the Domino Web server. For more information on setting up Domino to work with the Internet, see *Extending the Domino System*.

With the Lotus Domino Advanced Services license, you gain three primary server enhancements: Domino server clusters, partitioned servers, and billing features. A Domino cluster is a group of up to six Domino servers in the same domain connected by a local area network. A Domino partitioned server shares the resources of a single computer with other Domino servers. The Domino billing feature enables a Domino server to track system usage; the Domino billing server task collects this information and records the data for billing processes. For more information on the Advanced Services, see Chapters 9, 10, and 11 of *Extending the Domino System*.

**Alternatives to installing from CD-ROM**

You can run the Install program either directly from the CD-ROM or from a distribution area. You can create a distribution area by using the copydist utility, which copies the Domino software for all four UNIX platforms to a hard disk. You can then run the Install program from that location. For more information about creating distribution areas, see Chapter 2 of *Getting Started with Domino*.

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About installing Domino to a single host

To install Domino to a single host, you must specify a destination host hostname. The specified destination host does not need to be the same host or operating system running the Install program.

About installing Domino to multiple hosts

To install Domino to multiple hosts, you must specify the name of each destination host in a hostlist file. A hostlist file is an ASCII file listing the destination hostnames, one host on each line. You can create this list before you start the Install program, or you can create or edit the list during the Install program.

You do not have to install the software to the computer on which you are running the Install program; however, we do recommend that you run the Domino software on the destination host(s) instead of making the software available as a network resource.

Configuration settings

When you install Domino on multiple hosts, Domino uses the same configuration settings for each destination host. The settings include the following:

- **The destination path of the Domino files.** By default, Domino installs the software to the /opt/lotus/ destination. If you install to a different directory, the Install program creates a symbolic link from /opt/lotus/ to the install directory that you specify. The final directory name of the path must be “lotus”; if you do not include it in the path, the Install program adds “lotus” to the path.

  The Install program will also install support for VIM applications in the form of a symbolic link in the directory /opt/vim/lib. If this directory does not exist, Domino creates it.

  **Note** Make sure that the file system containing the destination path is local to the hosts that will run the Domino server.

- **Documentation.** To install additional Domino documentation, do so during the Setup program. By default, Domino installs only the Release Notes and Help Lite databases.
The names of the existing UNIX user and group IDs for the Domino server. Domino uses the user and group IDs that you specify during install for the user and group ownership of the Domino server files. By default, Domino uses notes as the user ID, and notes as the group ID. You should create these IDs and use the same IDs during the Install program and the server Setup program. Make sure the IDs you specify are not the same as any system IDs defined by any of the destination hosts.

Note  The Domino server executables are Set Group ID enabled.

• The name for a separate administrative account. For each system that will run the Domino server software, you need to create a UNIX administrative account for running the Domino server processes. This account should be local to the system, for both security and performance reasons. Use a unique name, such as notesadm, to differentiate this account from the software account. The group for this account should be notes.

Getting online Help during Install
If you need online Help at any time during the Install program, type h to receive context-sensitive Help.

Completing pre-install tasks
Follow these steps before you install Domino.

1. Read the Domino Release Notes for any last-minute changes or additions to the documentation.
2. Make sure that the required hardware and software components are in place and working.
3. Use the “df” command to make sure that enough space is available for /opt, the default installation directory, and for <directory>/notesr4, the destination for the Domino data files, where <directory> specifies the location of the user’s home directory. For example, you could use the following syntax:
   
   #cd <directory>
   
   #df -k .

   to check whether enough space is available.

Note  For Domino partitioned servers, make sure that there is enough space available for each partitioned server’s data directory.
4. For each system receiving Domino, make sure that a UNIX user account and a UNIX group account are set up for ownership of Domino software. We recommend that you set up a user ID account named notes and a group ID account named notes. For this purpose, make sure that these IDs are available on each target host by an appropriate method (NIS, per host, or otherwise) for your site. Note that these software accounts do not need a home directory.

5. For each system that runs the Domino server software, create a UNIX administrative account for running the Domino server processes. This account should be local to the system, for both security and performance reasons. Use a unique name, such as notesadm, to differentiate this account from the software account. The group for this account should be notes.

6. Determine the device name for the CD drive or the location of the file server from which you are installing Domino.

7. Make sure that the system running the Install program has root equivalent access on each remote target host using /.rhosts, /etc/hosts.equiv, or some other appropriate method.

8. Make sure that there is no extraneous text from remote shells. For example, rsh host echo hello should return only “hello.”

9. Make sure that your terminal or window column and row size is at least 80x24.

10. If you are installing from CD-ROM, mount the CD-ROM.

**Mounting the CD-ROM**

The CD-ROM for Lotus Domino is in the ISO-9660 format.

1. Log into your UNIX system as root.

2. Insert the Lotus Domino for UNIX CD-ROM and then use the following syntax to mount the CD-ROM. In each path cd_mount_point is the chosen mount point of the CD-ROM filesystem, and device_name is the name for the CD-ROM drive.

   For HP-UX:
   
   `/usr/sbin/mount -r -t cdfs /dev/dsk/device_name cd_mount_point`

   For Solaris:
   
   If the Volume Manager is running with defaults, cd_mount_point will be /cdrom/notes_r4 automatically after the CD-ROM is inserted into the drive. Otherwise, as root:
   
   `/etc/mount -r -F hsfs /dev/dsk/device_name cd_mount_point`
For AIX:
/usr/sbin/mount -r -v cdrfs /dev/device_name cd_mount_point

3. Use the following syntax to change the CD-ROM directory containing the Domino Install program:
   cd cd_mount_point/on-cd-path
   
   where on-cd-path is either “unix” or “UNIX” depending on your system’s CD-ROM driver.

**Examples: Mounting the CD-ROM**
The following are platform-specific examples for mounting the CD-ROM.

For HP-UX:
/usr/sbin/mount -r -t cdfs /dev/dsk/c0t2d0 /cdrom
   
   cd /cdrom/UNIX
   
   For Solaris with vold running:
   cd /cdrom/notes_r4/unix
   
   For Solaris without vold running:
   /etc/mount -r -F hsfs /dev/dsk/c0t6d0s2 /cdrom
   cd /cdrom/unix
   
   For AIX:
   /usr/sbin/mount -r -v cdrfs /dev/cd1 /cdrom
   cd /cdrom/unix

---

**Ways to install Domino on UNIX servers**

You can run the Install program to:

- Install Domino to a single host which you specify during the Install program. You must have root privileges to run the Install program.
- Install Domino to multiple hosts which you specify in a text file prior to or during the Install program. You must have root privileges to run the Install program.
Installing Notes to a single host

Perform the following steps to install Domino to a single host. For Domino partitioned servers, you only need to perform these steps once on a machine.

1. Make sure you complete the pre-install tasks before you begin the Install program.

2. Change to the directory containing the Install program, and then start the Install program.
   For HP-UX, type:
   ```
   ./INSTALL\;1
   ```
   For Sun Solaris and IBM AIX, type:
   ```
   ./install
   ```

3. Read the welcome screen and press TAB to continue.

4. Press the Spacebar to change the default of “Notes workstation” to “Domino server.” Press TAB to accept the value.

5. Do one of the following:
   - If you have not purchased the Lotus Domino Advanced Services license, press TAB to accept the default of “No” for installing the Advanced Services.
   - If you have the Lotus Domino Advanced Services license and want to install the Advanced Services, press the Spacebar to change the default of “No” to “Yes.” After reading the license agreement, press TAB to continue. If you agree to the terms of the license, press the Spacebar to change the default of “No” to “Yes.”

6. For Sun Solaris, press TAB to accept the default “Yes” to give the server root privileges. Both your system and the file system where you are installing Domino must allow setuid-root operation.
   **Note** Only the server for Solaris needs root privileges. The server must raise the limit of file descriptors for a process so that all server tasks can run as threads in a single process. After changing this limit, the server no longer runs as root.

7. Press TAB to accept the default “Yes” to install all online documentation.

8. Press TAB to accept the default of “to run the software on the destination host(s)” to install the appropriate software for the operating system of the destination host.
   **Note** Lotus does not recommend installing servers as network resources.

9. Press TAB to accept the default of “only one computer.”
10. To enter a different destination hostname, press ENTER, type the destination hostname, and press ENTER.

11. Press TAB to accept the destination hostname.

12. To enter a different destination path other than the default "/opt/lotus/,” press ENTER, type the destination path, and press ENTER.

13. Press TAB to accept the destination path.

14. Press TAB to accept the default “notes” as the user ID. This ID will be used as the owner of the Domino server files.

15. Press TAB to accept the default “notes” as the group ID. This ID will be used as the group for the Domino server files.

16. Press TAB to review the configuration summary.

17. Press TAB to accept the configuration settings, or press ESC to reconfigure them.

18. After you press TAB, validation occurs. Review the validation information displayed on the screen (or in the validation log file).

19. Press TAB to continue the install, or press ESC to reconfigure.

**Installing Domino to multiple hosts**

Perform the following steps to install Domino to multiple hosts. For Domino partitioned servers, you only need to perform these steps once on a machine.

1. Make sure you complete the pre-install tasks before you begin the Install program.

2. Change to the directory containing the Install program, and then start the Install program. 
   For HP-UX, type:
   ```shell
   ./INSTALL\;1
   ```
   For Sun Solaris and IBM AIX, type:
   ```shell
   ./install
   ```

3. Read the welcome screen and press TAB to continue.

4. Press the Spacebar to change the default of “Notes workstation” to “Domino server.” Then press TAB to accept the value.

5. Do one of the following:
   - If you have not purchased the Lotus Domino Advanced Services license, press TAB to accept the default of “No” for installing the Advanced Services.
If you have the Lotus Domino Advanced Services license and want to install the Advanced Services, press the Spacebar to change the default of “No” to “Yes.” After reading the license agreement, press TAB to continue. If you agree to the terms of the license, press the Spacebar to change the default of “No” to “Yes.”

6. For Sun Solaris, press TAB to accept the default “Yes” to give the server root privileges, which enhances performance. Both your system and the file system where you are installing Domino must allow setuid-root operation.

   Note Only the server for Solaris needs root privileges. The server must raise the limit of file descriptors for a process so that all server tasks can run as threads in a single process. After changing this limit, the server no longer runs as root.

7. Press TAB to accept the default “Yes” to install all online documentation.

8. Press TAB to accept the default of “to run the software on the destination host(s)” to install the appropriate software for the operating system of the destination host.

   Note Lotus does not recommend installing servers as network resources.

9. Press the Spacebar to change the install setting to “more than one computer,” and then press TAB to accept the setting.

10. Press ENTER, type the name of the file listing the destination hosts, and press ENTER.

11. Press TAB to accept the hostlist file name.

12. Do one of the following:

   • If the hostlist file exists, and you do not want to edit the file, press TAB to accept the default of “continue.”

   • If the hostlist file does not exist, press TAB to accept the default of “Escape to a shell.” Create or edit the hostlist file, type exit, and press ENTER. Press TAB to accept the default of “continue.”

   • If the hostlist file exists, and you want to edit it, press the Spacebar to change the setting to “Escape to a shell,” edit the file and type exit. Press ENTER and then press TAB to accept the default of “continue.”

13. To enter a different destination path, press ENTER, type the destination path, and press ENTER.

14. Press TAB to accept the destination path.

15. Press TAB to accept the default “notes” as the user ID. This ID will be used as the owner of the Domino server files.
16. Press TAB to accept the default “notes” as the group ID. This ID will be used as the group for the Domino server files.

17. Press TAB to review the configuration summary.

18. Press TAB to accept the configuration settings, or press ESC to reconfigure them.

19. After you press TAB, validation occurs. Review the validation information displayed on the screen (or in the validation log file).

20. Press TAB to continue the install, or press ESC to reconfigure.

About the Lotus Domino server setup program for UNIX

After you successfully install Domino, you must complete the Setup program. For Domino partitioned servers, you must run the Setup program once for each partitioned server. During the Setup program, Domino copies the server files into the Domino data directory and creates the default Domino configuration file (notes.ini). We recommend that the server data directory be local to the host that will run the Domino server. This provides maximum performance and reduces network dependencies.

Domino lets you choose which components you want to install locally on your server. The Setup program configures your data directory according to the features you choose.

The Setup program automatically starts the first time you type the command /opt/lotus/bin/notes. If you need to rerun Setup, you can do so by typing /opt/lotus/bin/notes -u

List of install components

Familiarize yourself with the following components before you start the Setup program.

User Data Files contains files that identify how you installed Notes on your computer. By default, the Setup program selects this feature for you.

Advanced Services Data Files contains the files necessary for partitioned servers, clusters, and billing. If you select this feature, the Setup program automatically selects the server, workstation, and user data files.

Domino Server Data Files contains the program, data, and template files needed to run a Domino server. Domino servers provide services to Notes workstation users and other Domino servers, including storing shared databases, replicating databases, and routing mail. You must select this feature to run a Domino server.
Notes Workstation Data Files contains the program, data, and template files needed to run a Notes workstation. If you are installing a Domino server, the Setup program automatically installs the workstation data files.

Help Lite Database is a database that provides context-sensitive information about most Notes features. Although Help Lite is a subset of the Help database, Lotus recommends you install this feature so workstation users can access this database. This database is highly recommended for anyone using Notes remotely.

Help Database provides context-sensitive information about most Notes end-user features, as well as documentation on managing databases, creating applications, and using LotusScript. Lotus recommends you install this feature so workstation users can access this database.

Documentation Databases includes guides to installation and Domino administration. Lotus recommends you install this feature so workstation users can access these databases.

Server setup terms
To understand more about the Setup program, familiarize yourself with the following Domino terms:

Domino server ID
Each Domino server has a unique name that is maintained in its own ID file. Domino creates the server ID automatically during the server Setup program.

Notes user ID
Each Notes user has a unique name that is maintained in its own ID file. Domino creates the user ID automatically when you register new users.

Certifier ID
Each grouping of Domino servers, known as a domain, has a Certifier ID that is stored in a file named cert.id. This certifier automatically certifies the first server's ID and the administrator's ID. When you register new users or servers, you use the certifier ID to give access to the domain. You also use the certifier ID when you create organizational unit certifiers for a hierarchical name scheme.

Domino creates the organization certifier ID automatically during the first server Setup program using the organization name you specify and an optional country code. You can only add a country code if your country's clearing house for X.500 names has approved your organization name. Doing this minimizes the chance that another organization has the same
organization name as yours. A multinational organization requires only one certifier ID, even if a country code is specified; it’s not necessary to have separate certifier IDs for each country in which Domino is deployed.

**Public Address Book**
Each domain has a Public Address Book. The Public Address Book contains a Server document for each server and a Person document for each user. In addition, you can create Group documents to establish relationships among servers and users for mailing and security purposes, and create Connection documents to schedule replication and mail routing among servers.

When naming users, servers, or certifiers for the Public Address Book, you should not use the characters / (forward slash), \ (backslash), , (comma), or @ (at sign). Lotus recommends you use a password to protect the private encryption keys stored in the ID files. Passwords are case sensitive and can consist of any combination of keyboard characters. The first character of the password must be an alphanumeric character. Lotus recommends using a password of at least 13 characters. A phrase is more secure than a password, and may be easier to remember.

For more information, see *Planning the Domino System* and *Getting Started with Domino*.

---

### About what happens during first server setup for UNIX

Here is an overview of what happens when you run first server setup. Before you set up the first Domino server, you should make decisions about the names you will use for the domain, Notes named network, and server. For more information, see *Planning the Domino System* and *Getting Started with Domino*.

**Note** A Domino partitioned server or cluster member may or may not be the first server in a domain. For all Domino servers, only choose first server setup when you are setting up Domino for the first time in your company or when you are creating a new domain.

The first server setup does the following:

- Creates a new domain for the Domino servers.
- Enables the appropriate network and serial ports.
- Creates the Public Address Book for the domain. The server Setup program creates the Public Address Book in the same directory you choose for data files and gives it the default name names.nsf.
• Creates an organization certifier ID for your organization. The server Setup program creates the organization certifier ID in the same directory you choose for data files and gives it the default name cert.id.

• Creates a Certifier document in the Public Address Book. This document describes the organization certifier ID.

• Creates a server ID for the new server. The server Setup program creates the server ID in the same directory you choose for data files and gives it the default name server.id.

• Certifies the server ID with the organization certifier ID.

• Creates a Server document in the Public Address Book. This document describes the first server based on information that you specify during setup.

• Creates a Person document in the Public Address Book for the Domino administrator.

• Creates a user ID for the Domino administrator. The server setup program creates the user ID in the same directory you choose for data files and gives it the default name user.id.

• Certifies the administrator’s user ID with the organization certifier ID.

• Adds the administrator’s name and the server’s name as managers in the access control list of the Public Address Book.

• Adds the server name to the LocalDomainServers group in the Public Address Book.

• Creates the log file for the server in the same directory you choose for data files and gives it the default name log.nsf.

• Creates a mail directory in the data directory and a mail file for the Domino administrator.

**Running the Setup program**

Use the following procedure to start and run the Setup program, which installs the Domino data files.

**Note** For Domino partitioned servers, you must run the Setup program once for each partitioned server because each one uses its own set of Domino data files.

1. Log in as the UNIX user account that will own the Domino server files.
2. Use the following syntax to invoke the Setup program:

   ```
   /opt/lotus/bin/notes
   ```

   **Note** If you are installing a second or subsequent Domino partitioned server, invoke Setup by typing `/opt/lotus/bin/notes -u`
3. Select any features you want to install on the server, and make available to workstation users. You must install the user, Notes workstation, and Domino server data files for the Domino server to run. If you select to install the Advanced Services Data Files, the user, workstation, and server files are also selected by default.

4. Enter the path where you want the Domino server data files to reside. The Setup program installs the notes.ini file in this directory. By default, the Domino server data files are installed in `<directory>/notesr4`, where `<directory>` specifies the user’s home directory.

   **Note** If you are installing Domino partitioned servers, each partitioned server needs its own Domino data directory. Lotus recommends that you use the name of the partitioned server to name its data directory. For example, if your partitioned server is named Red, you enter `<directory>/Red` as the directory for the server data files.

5. Click Install to begin installation.

6. Click Quit when the installation is complete. Notes automatically opens and the server Setup program begins. If you are installing the first server in an organization or domain, go to “Setting up Domino on the first UNIX server.” Otherwise, for information on setting up additional servers, see Chapter 2 in *Getting Started with Domino*.

   **Note** If you are installing Domino partitioned servers, the server Setup program opens for the partitioned server you have just installed.

---

### Setting up Domino on the first UNIX server

After you select the components you want to install using the Setup program, Notes opens automatically and the server Setup program begins. Use the following procedure to set up the first Domino server in your organization or domain. To set up additional servers, see Chapter 2 of *Getting Started with Domino*.

1. After the server Setup program begins, select “The first Lotus Notes server in your organization” and click OK.

2. Enter a name for the Domino server in the Server name box.

3. Enter the name of your company in the Organization box.

4. Enter your last name, first name, and middle initial in the Administrator boxes.

5. Enter a case-sensitive password between 8 and 31 characters in the Administration password box.
6. Select the network protocol the machine uses in the Network type box. If the network is already installed and set up, it will automatically appear in the Network type field.

7. If the server uses a modem, do the following to set up a serial port:
   - Select a port in the Serial port box, and select the type of modem it uses in the Modem type box.
   - (Optional) To change the default settings for the modem port, click Setup. Change the settings. To specify an acquire script, click Acquire Script. Select a script and edit it if necessary, and then click OK. Click OK when you are finished specifying the modem settings.

8. (Optional) If the server uses a modem, click Script to select a connect script. Select a script and edit if necessary. Then click OK.

9. (Optional) Click Advanced Options, choose the ones you want, and then click OK.

10. Select “Server is also administrator’s personal workstation” if you plan to use the server as your workstation.

11. Click OK to exit first server setup.

12. Select a time zone and check “Observe Daylight Savings Time April-October” if appropriate. Click OK.

13. Click OK when Setup is complete.

14. To successfully run the server program, do the following:
   - Add the directory that contains notes.ini to your path. By default, notes.ini is installed in `<directory>/notesr4`, where `<directory>` specifies the user’s home directory.

   **Note** For Domino partitioned servers, you should not perform this step because each partitioned server has a different notes.ini file. Instead, add the current directory (“.”) to your path, and run Domino only from within the Domino data directory of the partitioned server that you want to run.

   - Add the Domino executable directory to your path. The default Domino executable directory is `/opt/lotus/bin`. 

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Redoing UNIX server setup

If you made any errors while setting up the first server, follow this procedure to start the server Setup program again.

1. Choose File - Exit Notes to exit Notes.
2. If you already started the Domino server, shut it down by typing exit or quit and pressing ENTER.
3. Use a text editor to open the notes.ini file. This file is in the Domino data directory.
4. Delete all lines in this file except the lines beginning with [Notes], KitType, Directory, and IconPath.
   **Note** For Domino partitioned servers, also do not delete the line NPN=1. For more information, see Chapter 10 in *Extending the Domino System*.
5. Open the Domino data directory and delete the desktop.dsk, cert.id, server.id, user.id, log.nsf, names.nsf, cache.dsk, mail.box files, and the mail directory.
6. Enter the following command to invoke the server Setup program:
   ```
   /opt/lotus/bin/notes
   ```

About using the Quick Start to a Web site database

If you install the Domino Web server or the Notes Designer for Domino client, the Install program automatically adds the Quick Start to a Web site database to your workspace. The nine-step Quick Start teaches you to use the Notes Designer for Domino Web Pages database. Use the familiar Notes interface to design and build your site.

After using the Quick Start, you will be familiar with some basic Notes Designer concepts such as:

- Creating databases using templates
- Creating documents within a database
- Creating links
- Navigating on the Notes Designer Workspace
Starting and shutting down the Domino server for UNIX

Starting the server
Start the Domino server so users can access shared databases or obtain other server services. From a UNIX window, start the Domino server by typing /opt/lotus/bin/server in the Domino data directory. For example:

```
#cd <directory>/notesr4
#/opt/lotus/bin/server
```

where `<directory>` specifies the location of the user’s home directory.

**Note** For Domino partitioned servers, start each partitioned server in its corresponding Domino data directory.

Shutting down the server
To shut down the Domino server, type exit or quit and press ENTER. It may take 10 seconds or more for the server to shut down.

**Note** For Domino partitioned servers, if you are using TCP/IP port mapping and shut down the port mapper server, all other partitioned servers on the computer will be affected. For more information, see Chapter 10 in *Extending the Domino System*.

For more information on server commands, see Appendix B in *Getting Started with Domino*.

About Domino server security
It is crucial to keep the Domino server secure. To prevent unauthorized users from accessing sensitive information on the server, keep the Domino server in a locked room or in a location where you can watch it, and use the Set Secure command to assign the server a password to prevent unauthorized changes while the server is running.

To set the password, enter the following server command at the console:

```
Set Secure password
```

where `password` is a password that you specify.

To exit the server, you must enter the password when using the Exit or Quit command. While the Set Secure command is in effect, you cannot use the Load, Set Config, and Tell commands, and you cannot use the Notes workstation program on the server machine.
To remove the password, type

```
Set Secure
```

again with the same password.

For more information on server security, see Chapter 6 of *Getting Started with Domino*.
Chapter 4
Installing Domino on a NetWare Server

This chapter describes how to install and set up Domino on a Novell NetWare file server.

About the Lotus Domino server for NetWare system requirements

Before you install Domino, install the Domino-supported hardware, software, and network operating system. When possible, use the recommended equipment, rather than the minimum required, to improve performance and make maintenance easier.

Required hardware and software for the NetWare File Server

The Lotus Domino server for NetWare requires the following hardware and software:

- A PC with an Intel 80486 or Pentium processor
- Novell NetWare 3.12 or 4.1
- 48MB of RAM minimum memory (64 users); 56 MB minimum (128 users); 96MB recommended
- 300MB minimum disk space; 500MB recommended
- A color display supported by Microsoft Windows
- A mouse
- A printer (optional, but highly recommended)
- A modem (necessary to dial in to the server)

Note: Minimum and recommended RAM amounts include the minimum amount of RAM required for the operating system as specified by the operating system vendor.

Disk space requirements include estimated free disk space amounts for minimum functioning systems (for example, one or more mail databases and applications).

For more information on the Notes workstation and Domino server platform system requirements, see the Domino Release Notes.
Supported networks and protocols

The Lotus Domino server for NetWare runs with the following network protocols:

- AppleTalk
- SPX
- SPX II
- TCP/IP
- X.PC

**Note**  Servers in clusters can run only with the TCP/IP and X.PC protocols. For more information on networks and protocols, see *Configuring the Domino Network*.

Supported Notes Release 4.6 workstations

The Domino server for NetWare can connect to Lotus Notes workstations running on the following platforms:

- AIX 4.1.5 or 4.2.1
- HP-UX 10.20
- Sun Solaris Intel Edition 2.5.1, or Sun SPARC Solaris 2.5.1
- Windows 95 or Windows NT 4.0

About the Lotus Domino server for NetWare

The Lotus Domino server for NetWare is designed for use in the Novell operating system environment. The Domino server for NetWare is loaded in the memory of a running Novell server from several NetWare Loadable Modules. You can monitor and control some Domino server operations, such as console commands, directly at the NetWare file server. However, you must perform some operations from the remote Domino administration program located on the Notes workstation.

The Domino server for NetWare differs from the Domino server for other operating systems in that:

- The HTTP server task is not currently available for NetWare.
- Partitioned servers are not available for NetWare.
About the Domino server Install program

The Lotus Domino 4.6 NetWare server uses a Windows 95 or Windows NT (Intel) platform to install the NetWare server software. The Install program includes a 32-bit Windows client, which is automatically installed. Previous releases used a 16-bit Windows client to install the server and required that you install the client software separately.

The Domino Install program accomplishes three tasks. It copies and decompresses the Domino program and data files into specified directories, updates the operating system configuration file (WIN.INI), and creates two default Domino configuration files (NOTES.INI) for the server program and for the Notes administration client program.

With the Lotus Domino Advanced Services license for NetWare, you gain two primary server enhancements: Domino server clusters and billing features. A Domino cluster is a group of up to six Domino servers in the same domain connected by a local area network. The Domino billing feature enables a Domino server to track system usage. The Domino billing server task collects this information and records the data for billing processes. For more information on Advanced Services, see Chapters 9 and 11 of *Extending the Domino System*.

You must complete both the Install program and the server Setup program before you can use the Domino server.

Alternatives to installing from CD-ROM

Lotus ships the Domino Release 4.6 files on CD-ROM. However, you can set up installation alternatives for users without a CD-ROM drive. You can

- Create a set of install disks by copying the contents of the DISK_KIT directories onto disks.
- Create a distribution area on a file server so users can run the Install program across a network.

For information on how to set up these installation environments, see Chapter 2 of *Getting Started with Domino*.

You can also install Domino by using commonly available software distribution utilities, such as Intel LANDesk, Microsoft SMS, Tivoli/Courier, and others. For more information and up-to-date technical assistance, see the Lotus Web site at http://www.lotus.com/systems/.
Install methods

Domino offers two install methods:

**Domino server** installs all the components needed to run the Domino server for NetWare.

**Customize features - Manual install** lets you select which components you want to install. At minimum you must select the Domino server, Notes workstation, and Personal Data Files to run a Domino server.

List of install components

Familiarize yourself with the following components before you start the Install program.

**Notes tab**

**Lotus Domino Server** contains the program, data, and template files needed to run a Domino server and the Notes Administrative Client. Domino servers provide services to Notes workstation users and other Domino servers, including storing shared databases, replicating databases, and routing mail. You must select this feature to run a Domino server.

**Personal Data Files** contains files that identify you and how you installed Notes on your computer. You must select this feature to run a Domino server.

**Notes Modems** contains files that let you use modems with the Notes workstation and Domino server.

**Documentation Databases** includes guides to installation and Domino administration. Lotus recommends you install this feature so workstation users can access these databases.

**Notes Release 4 Help** is a database that provides context-sensitive information about Notes features. Lotus recommends you install this feature so workstation users can access this database.

**Notes Help Lite** is a database that provides context-sensitive information about most Notes features. This feature is highly recommended for anyone using Notes remotely. Although Help Lite is a subset of Help, Lotus recommends you install Help Lite so workstation users can access this database.

**Attachment Viewer** offers filters for viewing attached files, such as spreadsheets and word processing documents, when the associated application is not installed on the local system.
Java support files contains files that enable the Notes Web Navigator to run Java applets.

Java Internationalization contains files for Java applets or Java Agents that use the internationalization support provided in Java Development Kit (JDK) 1.1. Selecting this option installs the Java classes that support the JDK 1.1 “locale” mechanism.

Advanced Services tab
Advanced Services contains the program files necessary for installing Domino server clusters, which connect up to six Domino servers together for maximum availability, and billing features, which track and record system usage.

About installing Novell NetWare Support files
Before you install the Domino for NetWare server, you must install the most recent Novell support files for your specific release of NetWare. Make sure you have the most updated support files from Novell. For NetWare 4.1, you need to install the 410PT2.EXE and LIBUP5.EXE files. For NetWare 3.12, you need the 312PT6.EXE and LIBUP5.EXE files. For more information, see the “Things You Need to Know” section of the Domino Release Notes (READMES.NSF).

Getting Novell technical service and support
All customers can obtain further information on Novell and NetWare from the Novell Web site at http://www.novell.com.

Novell Authorized Service Centers (NASCs) are the primary source of service and support for Domino for NetWare support files. For a list of trained NASCs and independent service providers in your area, call 1-800-338-NASC or 1-801-429-5588.

For information about Novell support tools, authorized resellers and service providers, or for direct hotline support from NTS, call 1-800-NETWARE or 1-801-429-5588. For direct support in Europe and the Middle East, call Novell’s European Support Center at +49-211-5277-744.
Editing the AUTOEXEC.NCF file

Before you install the Domino server for NetWare, you must edit the AUTOEXEC.NCF file on the NetWare file server.

1. Map a drive to the NetWare file server, if you have not already done so.

2. Type
   ```
   load install
   ```
   For NetWare 4.1, choose NCF File Options. For NetWare 3.12, choose System Options.

3. Choose “Edit system AUTOEXEC.NCF File” from the Available System Options.

4. Enter all of the following lines in the AUTOEXEC.NCF file:
   ```
   load clib
   ```
   ```
   load mathlib (only if your machine has a math coprocessor)
   ```
   ```
   load mathlibc (only if your machine does not have a math coprocessor)
   ```
   ```
   load tli
   ```
   ```
   load ipxs
   ```
   ```
   load spxs
   ```
   ```
   load netdb
   ```
   ```
   load notessrv
   ```

5. If you want to add the Domino directory to the search path, enter the following:
   ```
   search add volumename: \directory
   ```
   where `volumename` and `directory` are the names that you specify for the Domino subdirectory. For example: `search add sys: \notes`.

6. If you want to install the communications drivers, enter
   ```
   load aiocomx
   ```

7. Save and close the AUTOEXEC.NCF file.

8. Do the following to restart the server:
   - Type `down` and then type `exit` to exit to DOS.
   - Type `server` to restart the server.

9. Follow the steps in the procedure “Installing the Domino Server for Netware.”
Details: Editing the AUTOEXEC.NCF file

- It's best to load patchman as early in your AUTOEXEC.NCF file as possible. It must come before `load notessrv` if you add `load notessrv` into your AUTOEXEC.NCF file. This command allows the Domino Server for NetWare to start automatically when the NetWare file server starts. You can omit this line if you do not want to start the Domino Server for NetWare automatically.
- `CLIB.NLM` automatically loads `STREAMS.NLM`.
- `AIOCOMX.NLM` automatically loads `AIO.NLM`.

Completing pre-install tasks

Follow these steps before you install Domino.

1. Make sure that the required hardware and software components are in place and working.
2. Temporarily disable any screen savers and turn off any virus-detection software.
3. Make sure that all other applications are closed. Otherwise, you may corrupt any shared files and the Install program may not run properly.
4. Read the Domino Release Notes for any last-minute changes or additions to the documentation.
5. If you are upgrading to Domino:
   - Copy any customized template (.NTF), modem (.MDM), script (.SCR), bitmap (.BMP), macro (.MAC), and SmartIcons® (.SMI and .TBL) files to a temporary directory.
   - Copy your NAMES.NSF, NOTES.INI, and ID files to a temporary directory to save your current setup. Using your old NOTES.INI file with the new release of Domino may affect how Domino runs.
   - Copy your DESKTOP.DSK file to a temporary directory to save the database icons you have added to your workspace.

Installing the Domino server for NetWare

1. Make sure to complete the pre-install tasks.
2. Launch Windows 95 or Windows NT. Attach to the NetWare file server using Network Neighborhood or File Manager.
3. Do one of the following:
   - To install Domino from CD-ROM, insert the Lotus Domino CD-ROM in the CD-ROM drive.
To install Domino from a set of disks, insert the first Domino Install disk in the disk drive. (For instructions on how to create a set of install disks, see Chapter 2 of *Getting Started with Domino*.)

To install Domino from a file server, get the location of the file server that contains the Domino program files.

4. Choose Start - Run from the Desktop Bar.

5. Type
   
   `drive: \directory\install`

   where *drive* and *directory* specify the location of the Lotus Domino server for NetWare Install program files. On the CD-ROM, the directory is NETWARE. Press ENTER.

6. Read the software license agreement. If you agree with the terms of the agreement, click I Agree. If you do not agree with the terms of the agreement, click I Disagree to end installation.

7. Enter your name and the company name, and click Next. Do not select “Install on a file server.”

8. Click Yes to confirm the names, or No to re-enter them.

9. Do one of the following:
   
   * Select Domino server to install the program, data, and template files needed to run the Domino server.
   
   * Select Customize features - Manual install to choose the features you want to install. You must select this option to install the Domino server with Advanced Services.

10. Enter a drive and directory where you want Domino NetWare server program files and Notes Administrative Client program files to reside. By default, the Install program selects your local drive (for example, C:\NOTES). Be sure to specify a drive that is mapped to a NetWare volume. Click Browse to choose from a list of available drives and directories.

11. Enter the volume name for your NetWare system (for example, SYS:). The Install program displays the currently mapped drive.

12. If you chose Customize features - Manual install, do the following:
   
   * Select the features on the Notes tab that you want to install. At minimum you must select the Lotus Domino Server and Personal Data Files options to run a Domino server.
   
   * To install Domino Advanced Services, click the Advanced Services tab and select the Advanced Services option. Click Yes if you have purchased the Lotus Domino Advanced Services license and agree to the terms. Otherwise, click No and deselect Advanced Services.
Choose any other features you wish to install.
Click OK.

13. Select the program group for the Lotus Domino server icon and the Lotus Notes icon, or type a name to create a new program group and click Next.

14. Click Yes to begin copying the files.

15. Click Done when installation is complete.

16. If you saved any files from your previous setup, copy them to the data directory.

17. Go to “Setting Up Domino on the first server.”

For information on setting up additional servers, see Chapter 2 of Getting Started with Domino.

About the server Setup program

After you successfully install the Domino server program, Domino places a Lotus Domino administration icon in the Lotus Applications program group (by default) on your desktop in Windows NT 3.51 and on the Start menu in Windows 95 and Windows NT 4.0. The Domino server icon references the NOTES.INI file on the NetWare file server drive. The first time you double-click the Lotus Domino administration icon, the server Setup program automatically starts. You must complete the server Setup program before you can run the Domino server. If you try to start the Domino server without first completing the Setup program, the server exits with the message: “You must first run the workstation to set up your system.” To restart the server Setup process, double-click the Notes workstation icon.

Before you start the Setup program, familiarize yourself with the following Domino terms:

**Domino server ID**
Each Domino server has a unique name that is maintained in its own ID file. Domino creates the server ID automatically during the server Setup program.

**Notes user ID**
Each Notes user has a unique name that is maintained in its own ID file. Domino creates the user ID when you register new users.

**Certifier ID**
Each grouping of Domino servers, known as a domain, has an organization certifier ID that is stored in a file named CERT.ID. This certifier automatically certifies the first server’s ID and the administrator’s ID.
When you register new users or servers, you use the certifier ID to give access to the domain. You also use the organization certifier ID when you create organizational unit certifiers for a hierarchical name scheme.

Domino creates the organization certifier ID automatically during the first server Setup program using the organization name you specify and an optional country code. You can only add a country code if your country’s clearinghouse for X.500 names has approved your organization name. Doing this minimizes the chance that another organization has the same organization name as yours. A multinational organization requires only one certifier ID, even if a country code is specified; it’s not necessary to have separate certifier IDs for each country in which Domino is deployed.

**Domain**

A domain is a group of Domino servers that share the same Public Address Book.

**Public Address Book**

Each domain has a Public Address Book. The Public Address Book is the control and administration center for Domino servers in the domain. It contains a Server document for each server and a Person document for each user. In addition, you can create Group documents to establish relationships among servers and users for mailing and security purposes, and create Connection documents to schedule replication and mail routing among servers.

For more information, see *Planning the Domino System* and *Getting Started with Domino*.

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**About what happens during first server setup**

Here is an overview of what happens when you run first server setup. Before you set up the first Domino server, you should make decisions about the names you will use for the domain, Domino named network, and server. For more information, see *Planning the Domino System* and *Getting Started with Domino*.

**Note**  
A Domino server cluster member may or may not be the first server in a domain. For all Domino servers, only choose first server setup when you are setting up Domino for the first time in your company or when you are creating a new domain.

The first server setup does the following:

- Creates a new domain for the Domino servers.
- Enables the appropriate network and serial ports on OS/2. For NLM, you must specify the network type.
• Creates the Public Address Book for the domain. The Install program uses the PUBNAMES.NTF template to create the Public Address Book in the same directory you choose for Domino data files and gives it the default name NAMES.NSF.

• Creates an certifier ID for your organization. The Install program saves the organization certifier ID in the same directory you choose for Domino data files and gives it the default name CERT.ID.

• Creates a Certifier document in the Public Address Book. This document describes the certifier ID.

• Creates a server ID for the new server. The Install program saves the server ID in the same directory you choose for Domino data files and gives it the default name SERVER.ID.

• Certifies the server ID with the organization certifier ID.

• Creates a Server document in the Public Address Book. This document describes the first server, based on information that you specify during setup.

• Creates a Person document in the Public Address Book for the Domino administrator specified during the install process.

• Creates a user ID and a password for the Domino administrator and attaches it as a file named USER.ID to the administrator’s Person document in the Public Address Book.

• Certifies the administrator’s user ID with the organization certifier ID.

• Adds the administrator’s name and the server’s name as managers in the access control list of the Public Address Book.

• Adds the server name to the LocalDomainServers group in the Public Address Book.

• Creates the log file for the server in the same directory you choose for Domino data files and gives it the default name LOG.NSF.

• Creates a mail directory in the Domino data directory and a mail file in that directory for the Domino administrator.

• Autodetects all ports.

Setting up Domino on the first NetWare server

Use this procedure to set up the first Domino server in your organization or when you create a new domain. To set up second and subsequent servers, see Chapter 2 of Getting Started with Domino.

1. Double-click the Lotus Domino Administration icon on your desktop to begin the Setup program.

2. Select “The first Lotus Notes server in your organization” and click OK.
3. Enter a name for the Domino server in the Server name box.
4. Enter the name of your company in the Organization box.
5. Enter your last name, first name, and middle initial in the Administrator boxes.
6. Enter a case-sensitive password between 8 and 31 characters in the Administration password box. This is the administrator’s password. Lotus recommends you use a password at least 13 characters in length.
7. Select the network protocol the machine uses in the Network type box. If the network is already installed and set up, the network protocol automatically appears in the Network type field.
8. If the server uses a modem, do the following to set up a serial port:
   - Select a port in the Serial port box, and select the type of modem it uses in the Modem type box.
   - (Optional) To change the default settings for the modem port, click Setup. Change the settings. To specify an acquire script, click Acquire Script. Select a script and edit it if necessary, and then click OK. Click OK when you are finished specifying the modem settings.
9. (Optional) If the server uses a modem, click Script to select a connect script. Select a script and edit if necessary. Then click OK.
10. (Optional) Click Advanced Options.
    - Enter a Domain name for the server’s domain and a Network name for its Domino named network.
    - Enter the Organization country code for your organization.
    - Select whether to log all replication events, log all client session events, create an organization certifier ID, a server ID, or an administrator’s ID.
    - Enter the minimum password length for the administrator’s ID and certifier IDs.
    - Click OK.
11. Click OK to exit first server setup.
12. Select a time zone. Select “Observe Daylight Savings Time April-October” if appropriate. Click OK.
13. Click OK when Setup is complete.
Redoing NetWare server setup

If you made any errors while setting up the first server, follow this procedure to start the server Setup program again.

1. From the administrator’s machine, choose File - Exit Notes to exit Notes.
2. If you already started the Domino server, switch to the console and shut it down by typing `exit` or `quit` and pressing ENTER.
3. Use a text editor to open the NOTES.INI file that is on the NetWare file server drive.
4. Delete all lines in this file except the lines beginning with `[Notes]`, `KitType`, `Directory`, and `RemoteServer=Netware`.
5. Open the Domino data directory and delete the DESKTOP.DSK, CERT.ID, SERVER.ID, USER.ID, LOG.NSF, and NAMES.NSF files.
6. Double-click the Lotus Domino Administration icon to restart the server Setup program.

About using the Quick Start to a Web site database

If you install the Domino Web server or the Notes Designer for Domino client, the Install program automatically adds the Quick Start to a Web site database to your workspace. The nine-step Quick Start teaches you to use the Notes Designer for Domino Web Pages database. Use the familiar Notes interface to design and build your site.

After using the Quick Start, you will be familiar with some basic Notes Designer concepts such as:

- Creating databases using templates
- Creating documents within a database
- Creating links
- Navigating on the Notes Designer Workspace

Starting and shutting down the Domino server for NetWare

You must start the Domino server so users can access shared databases and obtain other server services. Do not enter keystrokes or click the mouse while the Domino server is starting or shutting down.

**Note** If the server program is running, do not use CTRL+S to stop scrolling the console, because no server services will take place until you press a key to continue.
To start the server, type

```
load notessrv
```

at the NetWare file server prompt.

To shut down the Domino server, type `exit` or `quit` and press ENTER. It may take 10 seconds or more for the server to shut down.

**Tip** To set up the Domino server program to start automatically when you start the Novell file server machine, see the procedure “Editing the AUTOEXEC.NCF file.”

For more information on server commands, see Appendix B of *Getting Started with Domino*.

---

### About Domino server security

It is crucial to keep the Domino server secure. To prevent unauthorized users from accessing sensitive information on the server, keep the Domino server in a locked room or in a location where you can watch it, and use the `Set Secure` command to assign the server a password to prevent unauthorized changes while the server is running.

To set the password, enter the following server command at the console:

```
Set Secure password
```

where `password` is a password that you specify.

To exit the server, you must enter the password when using the Exit or Quit command. While the Set Secure command is in effect, you cannot use the Load, Set Config, and Tell commands, and you cannot use the Notes workstation program on the server machine.

To remove the password, type

```
Set Secure
```

again with the same password.

For more information on server security, see Chapter 6 of *Getting Started with Domino*. 

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