

IBM Tivoli Directory Server



System Requirements

Version 6.1

IBM Tivoli Directory Server



System Requirements

Version 6.1

Note

Before using this information and the product it supports, read the general information under "Notices," on page 19.

This edition applies to version 6, release 1, of IBM Tivoli Directory Server and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this book

IBM® Tivoli® Directory Server is the IBM implementation of Lightweight Directory Access Protocol for supported Windows®, AIX®, Linux® (xSeries®, zSeries®, pSeries®, and iSeries™), Solaris, and Hewlett-Packard UNIX® (HP-UX) operating systems.

IBM Tivoli Directory Server version 6.1 System Requirements describes the minimum hardware and software requirements for installing and using IBM Tivoli Directory Server 6.1 and its related software. The book also lists the supported versions of co-requisite products such as DB2® and GSKit.

Intended audience for this book

This book is for administrators who will install and configure IBM Tivoli Directory Server version 6.1.

Readers need to know how to use the operating system on which IBM Tivoli Directory Server will be installed.

Publications

This section lists publications in the IBM Tivoli Directory Server version 6.1 library and related documents. The section also describes how to access Tivoli publications online and how to order Tivoli publications.

IBM Tivoli Directory Server version 6.1 library

The following documents are available in the IBM Tivoli Directory Server version 6.1 library:

- *IBM Tivoli Directory Server Version 6.1 What's New for this Release*, SC23-6539-00
Provides information about the new features in the IBM Tivoli Directory Server Version 6.1 release.
- *IBM Tivoli Directory Server Version 6.1 Quick Start Guide*, GI11-8172-00
Provides help for getting started with IBM Tivoli Directory Server 6.1. Includes a short product description and architecture diagram, as well as a pointer to the product Information Center and installation instructions.
- *IBM Tivoli Directory Server Version 6.1 System Requirements*, SC23-7835-00
Contains the minimum hardware and software requirements for installing and using IBM Tivoli Directory Server 6.1 and its related software. Also lists the supported versions of co-requisite products such as DB2 and GSKit.
- *IBM Tivoli Directory Server Version 6.1 Installation and Configuration Guide*, GC32-1560-00
Contains complete information for installing, configuring, and uninstalling IBM Tivoli Directory Server. Includes information about upgrading from a previous version of IBM Tivoli Directory Server.
- *IBM Tivoli Directory Server Version 6.1 Administration Guide*, GC32-1564-00
Contains instructions for performing administrator tasks through the Web Administration Tool and the command line.
- *IBM Tivoli Directory Server Version 6.1 Command Reference*, SC23-7834-00

Describes the syntax and usage of the command-line utilities included with IBM Tivoli Directory Server.

- *IBM Tivoli Directory Server Version 6.1 Server Plug-ins Reference*, GC32-1565-00
Contains information about writing server plug-ins.
- *IBM Tivoli Directory Server Version 6.1 Programming Reference*, SC23-7836-00
Contains information about writing Lightweight Directory Access Protocol (LDAP) client applications in C and Java™.
- *IBM Tivoli Directory Server Version 6.1 Performance Tuning and Capacity Planning Guide*, SC23-7836-00
Contains information about tuning the directory server for better performance. Describes disk requirements and other hardware needs for directories of different sizes and with various read and write rates. Describes known working scenarios for each of these levels of directory and the disk and memory used; also suggests rough rules of thumb.
- *IBM Tivoli Directory Server Version 6.1 Problem Determination Guide*, GC32-1568-00
Contains information about possible problems and corrective actions that can be tried before contacting IBM Software Support.
- *IBM Tivoli Directory Server Version 6.1 Messages Guide*, GC32-1567-00
Contains a list of all informational, warning, and error messages associated with IBM Tivoli Directory Server 6.1.
- *IBM Tivoli Directory Server Version 6.1 White Pages*, SC23-7837-00
Describes the Directory White Pages application, which is provided with IBM Tivoli Directory Server 6.1. Information is provided about installing, configuring, and using the application for both administrators and users.

Related publications

The following documents also provide useful information:

- *Java Naming and Directory Interface™ 1.2.1 Specification* on the Sun Microsystems Web site at <http://java.sun.com/products/jndi/1.2/javadoc/index.html>.
IBM Tivoli Directory Server Version 6.1 uses the Java Naming and Directory Interface (JNDI) client from Sun Microsystems. See this document for information about the JNDI client.

Accessing terminology online

The *Tivoli Software Glossary* includes definitions for many of the technical terms related to Tivoli software. The *Tivoli Software Glossary* is available at the following Tivoli software library Web site:

<http://publib.boulder.ibm.com/tividd/glossary/tivoliglossarymst.htm>

The IBM Terminology Web site consolidates the terminology from IBM product libraries in one convenient location. You can access the Terminology Web site at the following Web address:

<http://www.ibm.com/software/globalization/terminology>

Accessing publications online

IBM posts publications for this and all other Tivoli products, as they become available and whenever they are updated, to the Tivoli Information Center Web site at <http://publib.boulder.ibm.com/tividd/td/link/tdprodlist.html>.

In the Tivoli Information Center window, click **Tivoli product manuals**. Click the letter that matches the first letter of your product name to access your product library. For example, click **M** to access the IBM Tivoli Monitoring library or click **O** to access the IBM Tivoli OMEGAMON® library.

Note: If you print PDF documents on other than letter-sized paper, set the option in the **File → Print** window that allows Adobe® Reader to print letter-sized pages on your local paper.

Ordering publications

You can order many Tivoli publications online at <http://www.elink.ibm.com/public/applications/publications/cgibin/pbi.cgi>.

You can also order by telephone by calling one of these numbers:

- In the United States: 800-879-2755
- In Canada: 800-426-4968

In other countries, contact your software account representative to order Tivoli publications. To locate the telephone number of your local representative, perform the following steps:

1. Go to <http://www.elink.ibm.com/public/applications/publications/cgibin/pbi.cgi>.
2. Select your country from the list and click **Go**.
3. Click **About this site** in the main panel to see an information page that includes the telephone number of your local representative.

Accessibility

Accessibility features help users with a physical disability, such as restricted mobility or limited vision, to use software products successfully. With this product, you can use assistive technologies to hear and navigate the interface. You can also use the keyboard instead of the mouse to operate all features of the graphical user interface.

For additional information, see *IBM Tivoli Directory Server Version 6.1 Installation and Configuration Guide*.

Tivoli technical training

For Tivoli technical training information, refer to the following IBM Tivoli Education Web site at <http://www.ibm.com/software/tivoli/education>.

Support information

If you have a problem with your IBM software, you want to resolve it quickly. IBM provides the following ways for you to obtain the support you need:

- IBM Support Assistant: You can search across a large collection of known problems and workarounds, Technotes, and other information at <http://www.ibm.com/software/support/isa>.
- Obtaining fixes: You can locate the latest fixes that are already available for your product.

- **Contacting IBM Software Support:** If you still cannot solve your problem, and you need to work with someone from IBM, you can use a variety of ways to contact IBM Software Support.

For more information about resolving problems, see the *IBM Tivoli Directory Server Version 6.1 Problem Determination Guide*.

Conventions used in this book

This book uses several conventions for special terms and actions, operating system-dependent commands and paths, and margin graphics.

Typeface conventions

This book uses the following typeface conventions:

Bold

- Lowercase commands and mixed case commands that are otherwise difficult to distinguish from surrounding text
- Interface controls (check boxes, push buttons, radio buttons, spin buttons, fields, folders, icons, list boxes, items inside list boxes, multicolumn lists, containers, menu choices, menu names, tabs, property sheets), labels (such as **Tip:**, and **Operating system considerations:**)
- Keywords and parameters in text

Italic

- Citations (examples: titles of books, diskettes, and CDs)
- Words defined in text (example: a nonswitched line is called a *point-to-point line*)
- Emphasis of words and letters (words as words example: "Use the word *that* to introduce a restrictive clause."; letters as letters example: "The LUN address must start with the letter *L*.")
- New terms in text (except in a definition list): a *view* is a frame in a workspace that contains data.
- Variables and values you must provide: ... where *myname* represents....

Monospace

- Examples and code examples
- File names, programming keywords, and other elements that are difficult to distinguish from surrounding text
- Message text and prompts addressed to the user
- Text that the user must type
- Values for arguments or command options

Operating system-dependent variables and paths

This book uses the UNIX convention for specifying environment variables and for directory notation.

When using the Windows command line, replace *\$variable* with *% variable%* for environment variables and replace each forward slash (/) with a backslash (\) in directory paths. The names of environment variables are not always the same in the Windows and UNIX environments. For example, *%TEMP%* in Windows environments is equivalent to *\$TMPDIR* in UNIX environments.

Note: If you are using the bash shell on a Windows system, you can use the UNIX conventions.

System requirements and supported software versions

To install and use IBM Tivoli Directory Server and its related software, your computer must meet the minimum system requirements described in this document.

Requirements that are common to all operating systems

The following sections show hardware and software that is required on all supported operating systems.

Hardware requirements

For the client:

Memory

A minimum of 128 MB RAM is required. For better results, use 256 MB or more.

For the server:

(These recommendations are based on a directory with 100,000 inetOrgPerson objects, where each entry is approximately 10 KB. Requirements will vary based on your directory and performance responsiveness requirements.)

Memory

The following amounts of RAM are recommended for each directory server instance:

- At least 512 MB for each directory server instance. This includes both proxy servers and full servers.
- At least 256 MB for each database instance. (This is not required for a proxy server.)
- At least 512 MB for running the Web Administration Tool and Embedded WebSphere® Application Server on the same computer. For better results, use 1 GB or more.
- At least 256 MB for running IBM Tivoli Directory Integrator Server Runtime for each solution running for a directory server instance. The IBM Tivoli Directory Integrator solutions available in IBM Tivoli Directory Server 6.1 include the following:
 - Simple Network Management Protocol (SNMP)
 - Active Directory synchronization,
 - Log management
 - Collection of support data

Additionally, 128 MB is required for running the IBM Tivoli Directory Integrator Administration and Monitoring Console.

Add these memory requirements together if you have a full server, the Web Administration Tool, and Embedded WebSphere Application Server on the same computer.

Note: If you are running HP-UX using DB2 9.1, 4 GB of memory is required. For all other operating systems, use at least 1 GB of memory for best results.

Disk space

For a full server, IBM Tivoli Directory Server (including the client, the server, and the database) requires about 2 GB of disk space. This might increase based on the number of entries and the size of each entry for your installation.

For information about disk space required for each installable feature for each operating system, see the *IBM Tivoli Directory Server version 6.1 Installation and Configuration Guide*.

Software requirements

Required prerequisites

For storing directory data, DB2 must be installed for directory servers. (Proxy servers do not require DB2.) One of the following versions of DB2 must be installed:

- Universal Database Enterprise Server Edition (ESE). DB2 V9.1 ESE Fix Pack 2 is included with IBM Tivoli Directory Server 6.1.

Note: For Solaris X64 only, DB2 V9.1 ESE Fix Pack 1 is included.

- Universal Database Enterprise Server Edition DB2 V8.1

Optional prerequisites

The following software might be required for your installation:

- For using the Web Administration Tool, which is a graphical user interface (GUI) for administering servers, Websphere Application Server is required. Embedded WebSphere Application Server 6.1.0.7 is included with IBM Tivoli Directory Server 6.1.
- For Secure Socket Layer (SSL) encryption, Global Security Kit (GSKit) is required. GSKit 7.0.3.30 is included with IBM Tivoli Directory Server 6.1.
- For IBM Tivoli Directory Integrator solutions for SNMP, Active Directory synchronization, log management, and support data collection (not available for Solaris X64), IBM Tivoli Directory Integrator is required. The server runtime and Administration and Monitoring Console components from IBM Tivoli Directory Integrator 6.1.1 are included with IBM Tivoli Directory Server 6.1.

The following sections show system requirements for specific supported operating systems.

Requirements on Intel 32-bit Windows

The following table shows the Windows versions on which IBM Tivoli Directory Server 6.1 is supported for 32-bit architectures.

Intel® 32-bit Windows	
Operating system version	32-bit Directory Server components
Windows Server 2003 Standard, Enterprise, Datacenter (SP1 and R2)	<ul style="list-style-type: none"> • Client • Server • Web Administration Tool
Windows XP Professional	Client

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.1 are marked with an asterisk (*).

Intel 32-bit Windows			
Version	Browser	Web Application Server	DB2 Universal Database™ Enterprise Server Edition (ESE)
Windows Server 2003 Standard, Enterprise (SP1, R2), Datacenter (R2)	<ul style="list-style-type: none"> Internet Explorer 6.x Mozilla Firefox 2.0.0.3 	<ul style="list-style-type: none"> Apache Tomcat 5.5 WebSphere Application Server 6.1 Fix Pack 7 Embedded WebSphere Application Server 6.1.0.7 * 	<ul style="list-style-type: none"> 8 Fix Pack 10 or higher level fix pack 9.1 Fix Pack 2 *
Windows XP Professional	N/A	N/A	N/A

Notes:

1. Not all Fix Pack levels of DB2 are supported. Check the list carefully to be sure that the Fix Pack level you are using is supported.
2. The Web browser is required on the computer from which you will use the Web Administration Tool. (This might or might not be the computer where the Web Administration Tool is installed).
3. The Web application server is required on the computer where the Web Administration Tool is installed. The Web application server is not required for the client or the server.

In addition:

Other software

- GSKit 7.0.3.30 is provided. The minimum supported level of GSKit is 7.0.3.20. To use GSKit, the IBM JDK 1.5 or an equivalent JDK is required.
- Java 1.5.0.5 is provided.
- The server runtime and the Administration and Monitoring Console components from IBM Tivoli Directory Integrator 6.1.1 are provided, as well as the required deployment engine.
- It is important that you install any operating system requirements that are necessary for the version of DB2 that you are using. For DB2 requirements, go to the following Web address: <http://www.ibm.com/software/data/db2/udb/sysreqs.html>

Other hardware

Before installing, be sure that you have at least 255 MB of free space in the directory specified by the TEMP environment variable or the directory you want to use as a temporary directory.

Requirements on AMD/EM64T Windows

The following table shows the Windows versions on which IBM Tivoli Directory Server 6.1 is supported for 64-bit architectures.

AMD/EM64T Windows		
Operating system version	64-bit Directory Server components	32-bit Directory Server components
Windows Server 2003 Standard, Enterprise, Datacenter (SP1 and R2)	<ul style="list-style-type: none"> Client Server Web Administration Tool 	Client

AMD/EM64T Windows		
Operating system version	64-bit Directory Server components	32-bit Directory Server components
Windows XP Professional	Client	Client

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.1 are marked with an asterisk (*).

AMD/EM64T 64-bit Windows			
Version	Browser	Web Application Server	DB2 Universal Database Enterprise Server Edition
Windows Server 2003 Standard, Enterprise, Datacenter (SP1 and R2)	<ul style="list-style-type: none"> Internet Explorer 6.x Mozilla Firefox 2.0.0.3 	<ul style="list-style-type: none"> Apache Tomcat 5.5 WebSphere Application Server 6.1 Fix Pack 7 Embedded WebSphere Application Server 6.1.0.7* 	<ul style="list-style-type: none"> 8 Fix Pack 10 or higher level fix pack 9.1 Fix Pack 2*
Windows XP Professional	N/A	N/A	N/A

In addition:

Other software

- GSKit 7.0.3.30 is provided. The minimum supported level of GSKit is 7.0.3.20. To use GSKit, the IBM JDK 1.5 or an equivalent JDK is required. To install GSKit, version 8 of IsScript.msi is required. You can download the file from <http://consumer.installshield.com/kb.asp?id=Q108158>.
- Java 1.5.0.5 is provided.
- The server runtime and the Administration and Monitoring Console components from IBM Tivoli Directory Integrator 6.1.1 are provided, as well as the required deployment engine.
- It is important that you install any operating system requirements that are necessary for the version of DB2 that you are using. For DB2 requirements, go to the following Web address: <http://www.ibm.com/software/data/db2/udb/sysreqs.html>

Other hardware

Before installing, be sure that you have at least 255 MB of free space in the directory specified by the TEMP environment variable or the directory you want to use as a temporary directory.

Requirements on AIX operating systems

The following table shows the versions of AIX on which IBM Tivoli Directory Server 6.1 is supported.

AIX on pSeries (64-bit/32-bit)		
Operating system version	64-bit Directory Server components	32-bit Directory Server components
AIX 5.2 (Maintenance Level 5 or higher maintenance level for client or server)	<ul style="list-style-type: none"> Client Server Web Administration Tool 	Client

AIX on pSeries (64-bit/32-bit)		
Operating system version	64-bit Directory Server components	32-bit Directory Server components
AIX 5.3 (Technology Level 1 or higher level for client or server)	<ul style="list-style-type: none"> Client Server Web Administration Tool 	Client

Note: If you installed maintenance levels and have no locale-specific requirements, after you apply all the services that you need for your system, restart your system to enable the changes.

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.1 are marked with an asterisk (*).

AIX on pSeries (64-bit/32-bit) on POWER4™ or PowerPC_POWER5				
Version	Browser	IBM Network Authentication System (NAS) (Kerberos)	Web Application Server	DB2 Universal Database Enterprise Server Edition
<ul style="list-style-type: none"> AIX 5.2 AIX 5.3 	<ul style="list-style-type: none"> Mozilla 1.6, 1.7, 1.75 Firefox 1.0 	NAS client 1.4.0.5 for AIX *	<ul style="list-style-type: none"> WebSphere Application Server 6.1 Fix Pack 7 Embedded WebSphere Application Server 6.1.0.7 * 	<ul style="list-style-type: none"> 8 Fix Pack 10 or higher level fix pack 9.1 Fix Pack 2 *

Notes:

1. Not all Fix Pack levels of DB2 are supported. Check the list carefully to be sure that the Fix Pack level you are using is supported.
2. For maintenance levels of AIX, go to the following Web address: <http://www.ibm.com/servers/eserver/support/pseries/aixfixes.html>.
3. The NAS libraries, and not the full client, are provided. (On AIX 5.3, IBM NAS (Kerberos) 1.4 is provided on the AIX operating system CDs. Some AIX expansion packs contain later versions of NAS.)
4. The Web browser is required on the computer from which you will use the Web Administration Tool. (This might or might not be the computer where the Web Administration Tool is installed).
5. The web application server is required on the computer where the Web Administration Tool is installed. The web application server is not required for the client or the server.

In addition:

Other software

- The Korn shell is required.
- GSKit 7.0.3.30 is provided. The minimum supported level of GSKit is 7.0.3.20. To use GSKit, the IBM JDK 1.5 or an equivalent JDK is required.
- The xIC.aix50rte 6.0.0.0 or later fileset is required for GSKit.
- Java 1.5.0.5 is provided.
- The server runtime and the Administration and Monitoring Console components from IBM Tivoli Directory Integrator 6.1.1 are provided, as well as the required deployment engine.

- It is important that you install any operating system requirements that are necessary for the version of DB2 that you are using. For DB2 requirements, go to the following Web address: <http://www.ibm.com/software/data/db2/udb/sysreqs.html>

- For the server or 64-bit client, you must be running a 64-bit kernel. To verify that you have the 64 bit kernel (/usr/lib/boot/unix_64) installed and running, run the following command:

```
bootinfo -K
```

Note: If the hardware is 32-bit, then you can only have a 32-bit kernel; you cannot have a 64-bit kernel. If the hardware is 64-bit, then you can have either a 32 or 64-bit kernel

Other hardware

- If you plan to use the InstallShield GUI to install, be sure that you have at least 100 MB of free space in the /var directory and at least 300 MB in the /tmp directory (or the directory you want to use as a temporary directory).

- For a server or 64-bit client, you must be running on 64-bit hardware. To verify that your AIX hardware is 64-bit, run the following command:

```
bootinfo -y
```

If the command returns 32, your hardware is 32-bit.

In addition, if you type the command `lsattr -E1 proc0`, the output of the command returns the type of processor for your server. If you have any of the following, you have 64-bit hardware: RS64 I, II, III, IV, POWER3™, POWER3 II, POWER4, or PowerPC_POWER5 (for AIX 5.2 and 5.3).

Other For a server, be sure that asynchronous I/O is turned on.

To turn on asynchronous I/O:

1. Run **smitty chgaio** and set **STATE to be configured at system restart** from **defined** to **available**.
2. Press Enter.
3. Do **one** of the following:
 - Restart your system.
 - Run **smitty aio** and move the cursor to **Configure defined Asynchronous I/O**. Then press Enter.

Requirements on xSeries Linux operating systems

The following table shows the versions of xSeries Linux on which IBM Tivoli Directory Server 6.1 is supported for 32-bit architectures.

xSeries Linux (32-bit)	
Operating system version	32-bit Directory Server components
<ul style="list-style-type: none"> • Red Hat Enterprise Linux 4, 5 • SuSE Linux Enterprise Server 9, 10 	<ul style="list-style-type: none"> • Client • Server • Web Administration Tool

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.1 are marked with an asterisk (*).

xSeries Linux (32-bit)			
Version	Browser	Web Application Server	DB2 Universal Database Enterprise Server Edition
Red Hat Enterprise Linux 4	Firefox 1.5	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 * 	<ul style="list-style-type: none"> • 8 Fix Pack 10 or higher level fix pack • 9.1 Fix Pack 2 *
Red Hat Enterprise Linux 5	Firefox 1.5	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 * 	9.1 Fix Pack 2 *
SuSE Linux Enterprise Server 9, 10	Firefox 1.5	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 * 	<ul style="list-style-type: none"> • 8 Fix Pack 10 or higher level fix pack • 9.1 Fix Pack 2 *

Notes:

1. Not all Fix Pack levels of DB2 are supported. Check carefully to be sure that the Fix Pack level you are using is supported.
2. The Web browser is required on the computer from which you will use the Web Administration Tool. (This might or might not be the computer where the Web Administration Tool is installed).
3. The web application server is required on the computer where the Web Administration Tool is installed. The application server is not required for the client or the server.

In addition:

Other software

- If you install the Red Hat Enterprise Linux 5 operating system with SELINUX enabled (which is the default), instance creation fails. If you have already installed the operating system and SELINUX is enabled, use the `setenforce 0` command to disable it. Then, in the `/etc/selinux/config` file, change `SELINUX=enforcing` to `SELINUX=disabled`.
- The Korn shell, provided in the `pdksh rpm` package for all versions of Linux except SUSE LINUX Enterprise Server 10 and Red Hat Enterprise Linux 5, is required. Install the most recent version for your operating system.
The `pdksh rpm` package is not available for SUSE LINUX Enterprise Server 10 or Red Hat Enterprise Linux 5. However, you must install a `ksh` package.
- If you want to install the client or a server on Red Hat versions of Linux, you must install the following packages, which are included with the operating system, before you install IBM Tivoli Directory Server:
 - `compat-gcc`
 - `compat-gcc-c++`
 - `compat-libstdc++`
 - `compat-libstdc++-devel`

glibc-devel
glibc-headers
glibc-kernheaders

Note: You might need to upgrade to the latest patch level of these packages. See the Red Hat support site at <http://rhn.redhat.com> for patches for Red Hat Enterprise Linux.

- GSKit 7.0.3.30 is provided. The minimum supported level of GSKit is 7.0.3.20. To use GSKit, the IBM JDK 1.5 or an equivalent JDK is required.
- Java 1.5.0.5 is provided.
- The server runtime and the Administration and Monitoring Console components from IBM Tivoli Directory Integrator 6.1.1 are provided, as well as the required deployment engine.
- It is important that you install any operating system requirements that are necessary for the version of DB2 that you are using. For DB2 requirements, go to the following Web address: <http://www.ibm.com/software/data/db2/udb/sysreqs.html>
- If you want to use the **idsupport** tool to gather device information for problem determination, you must install the procinfo package.

Other hardware

- If you plan to use the InstallShield GUI to install, be sure that you have at least 100 MB of free space in the /var directory and at least 300 MB in the /tmp directory (or the directory you want to use as a temporary directory).

Requirements on AMD64/EM64T Linux operating systems

The following table shows the AMD64/EM64T Linux versions on which IBM Tivoli Directory Server 6.1 is supported for 64-bit architectures.

AMD64/EM64T Linux (64-bit)		
Operating system version	64-bit Directory Server components	32-bit Directory Server components
<ul style="list-style-type: none"> • Red Hat Enterprise Linux 4, 5 • SuSE Linux Enterprise Server 9, 10 	<ul style="list-style-type: none"> • Client • Server • Web Administration Tool 	Client

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.1 are marked with an asterisk (*).

AMD64/EM64T Linux (64-bit)			
Version	Browser	Web Application Server	DB2 Universal Database Enterprise Server Edition
Red Hat Enterprise Linux 4	Firefox 1.5	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 * 	<ul style="list-style-type: none"> • 8 Fix Pack 10 or higher level fix pack • 9.1 Fix Pack 2 *

AMD64/EM64T Linux (64-bit)			
Version	Browser	Web Application Server	DB2 Universal Database Enterprise Server Edition
Red Hat Enterprise Linux 5	Firefox 1.5	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 * 	9.1 Fix Pack 2 *
SuSE Linux Enterprise Server 9, 10	Firefox 1.5	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 * 	<ul style="list-style-type: none"> • 8 Fix Pack 10 or higher level fix pack • 9.1 Fix Pack 2 *

Notes:

1. Not all Fix Pack levels of DB2 are supported. Check the list carefully to be sure that the Fix Pack level you are using is supported.
2. The Web browser is required on the computer from which you will use the Web Administration Tool. (This might or might not be the computer where the Web Administration Tool is installed).
3. The application server is required on the computer where the Web Administration Tool is installed. The application server is not required for the client or the server.

In addition:

Other software

- If you install the Red Hat Enterprise Linux 5 operating system with SELINUX enabled (which is the default), instance creation fails. If you have already installed the operating system and SELINUX is enabled, use the `setenforce 0` command to disable it. Then, in the `/etc/selinux/config` file, change `SELINUX=enforcing` to `SELINUX=disabled`.
- The Korn shell, provided in the `pdksh` rpm package for all versions of Linux except SUSE LINUX Enterprise Server 10 and Red Hat Enterprise Linux 5, is required. Install the most recent version for your operating system.
The `pdksh` rpm package is not available for SUSE LINUX Enterprise Server 10 or Red Hat Enterprise Linux 5. However, you must install a `ksh` package.
- If you want to install the client or a server on Red Hat versions of Linux, you must install the following packages, which are included with the operating system, before you install IBM Tivoli Directory Server:
 - `compat-gcc`
 - `compat-gcc-c++`
 - `compat-libstdc++`
 - `compat-libstdc++-devel`
 - `glibc-devel`
 - `glibc-headers`

glibc-kernheaders

Note: You might need to upgrade to the latest patch level of these packages. See the Red Hat support site at <http://rhn.redhat.com> for patches for Red Hat Enterprise Linux.

- GSKit 7.0.3.30 is provided. The minimum supported level of GSKit is 7.0.3.20. To use GSKit, the IBM JDK 1.5 or an equivalent JDK is required.
- Java 1.5.0.5 is provided.
- The server runtime and the Administration and Monitoring Console components from IBM Tivoli Directory Integrator 6.1.1 are provided, as well as the required deployment engine.
- It is important that you install any operating system requirements that are necessary for the version of DB2 that you are using. For DB2 requirements, go to the following Web address: <http://www.ibm.com/software/data/db2/udb/sysreqs.html>
- If you want to use the **idsupport** tool to gather device information for problem determination, you must install the procinfo package.

Other hardware

- If you plan to use the InstallShield GUI to install, be sure that you have at least 100 MB of free space in the /var directory and at least 300 MB in the /tmp directory (or the directory you want to use as a temporary directory).

Requirements on zSeries Linux operating systems

The following table shows the versions of zSeries Linux on which IBM Tivoli Directory Server 6.1 is supported.

zSeries Linux (31-bit and 64-bit)		
Operating system version	64-bit Directory Server components	32-bit Directory Server components
zSeries Linux (31-bit) operating system version		
<ul style="list-style-type: none">• Red Hat Enterprise Linux 4, 5• SuSE Linux Enterprise Server 9, 10	N/A	Client (operating system utility installation only)
zSeries Linux (64-bit) operating system version		
<ul style="list-style-type: none">• Red Hat Enterprise Linux 4, 5• SuSE Linux Enterprise Server 9, 10	<ul style="list-style-type: none">• Client• Server• Web Administration Tool	Client

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.1 are marked with an asterisk (*).

zSeries Linux (64-bit)			
Version	Browser	Web Application Server	DB2 Universal Database Enterprise Server Edition
Red Hat Enterprise Linux 4	N/A	<ul style="list-style-type: none">• Apache Tomcat 5.5• WebSphere Application Server 6.1 Fix Pack 7• Embedded WebSphere Application Server 6.1.0.7 *	<ul style="list-style-type: none">• 8 Fix Pack 10 or higher level fix pack• 9.1 Fix Pack 2 *

zSeries Linux (64-bit)			
Version	Browser	Web Application Server	DB2 Universal Database Enterprise Server Edition
Red Hat Enterprise Linux 5	N/A	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 * 	9.1 Fix Pack 2 *
SuSE Linux Enterprise Server 9, 10	N/A	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 * 	<ul style="list-style-type: none"> • 8 Fix Pack 10 or higher level fix pack • 9.1 Fix Pack 2 *

Notes:

1. Not all Fix Pack levels of DB2 are supported. Check carefully to be sure that the Fix Pack level you are using is supported.
2. No Web browsers are supported for the Web Administration Tool on computers running zSeries Linux operating systems. (This means that you must use the Web Administration Tool from a browser on a different computer, using a supported operating system).
3. The web application server is required on the computer where the Web Administration Tool is installed. The web application server is not required for the client or the server.

In addition:

Other software

- If you install the Red Hat Enterprise Linux 5 operating system with SELINUX enabled (which is the default), instance creation fails. If you have already installed the operating system and SELINUX is enabled, use the `setenforce 0` command to disable it. Then, in the `/etc/selinux/config` file, change `SELINUX=enforcing` to `SELINUX=disabled`.
- The Korn shell, provided in the `pdksh` rpm package for all versions of Linux except SUSE LINUX Enterprise Server 10 and Red Hat Enterprise Linux 5, is required. Install the most recent version for your operating system.
The `pdksh` rpm package is not available for SUSE LINUX Enterprise Server 10 or Red Hat Enterprise Linux 5. However, you must install a `ksh` package.
- On 31-bit versions only, GSKit 7.0.3.30 is provided. The minimum supported level of GSKit is 7.0.3.20. To use GSKit, the IBM JDK 1.5 or an equivalent JDK is required.
- Java 1.5.0.5 is provided.
- You must install the following packages before you install DB2:
 - `compat-libstdc++-295-2.95.3-81.s390x.rpm` or higher version
 - `compat-libstdc++-33-3.2.3-47.3.s390x.rpm` or higher version
- On Red Hat versions of Linux, you must install both the 32-bit version and the 64-bit version of the `compat-libstdc++-33-3.2.3-47.3` package for Embedded WebSphere Application Server and WebSphere Application Server.

- If you want to install the client or a server on Red Hat versions of Linux, you must install the following packages, which are included with the operating system, before you install IBM Tivoli Directory Server:

```

compat-gcc
compat-gcc-c++
compat-libstdc++
compat-libstdc++
glibc-devel
glibc-headers
glibc-kernheaders

```

Note: You might need to upgrade to the latest patch level of these packages. See the Red Hat support site at <http://rhn.redhat.com> for patches for Red Hat Enterprise Linux.

- The server runtime and the Administration and Monitoring Console components from IBM Tivoli Directory Integrator 6.1.1 are provided, as well as the required deployment engine.
- It is important that you install any operating system requirements that are necessary for the version of DB2 that you are using. For DB2 requirements, go to the following Web address: <http://www.ibm.com/software/data/db2/udb/sysreqs.html>
- If you want to use the **idsupport** tool to gather device information for problem determination, you must install the **procinfo** package.

Other hardware

- If you plan to use the InstallShield GUI to install, be sure that you have at least 100 MB of free space in the /var directory and at least 300 MB in the /tmp directory (or the directory you want to use as a temporary directory).

Requirements on iSeries and pSeries Linux operating systems

The following table shows the versions of iSeries and pSeries Linux on which IBM Tivoli Directory Server 6.1 is supported.

iSeries and pSeries Linux (64-bit)		
Operating system version	64-bit Directory Server components	32-bit Directory Server components
<ul style="list-style-type: none"> • Red Hat Enterprise Linux 4, 5 • SuSE Linux Enterprise Server 9, 10 	<ul style="list-style-type: none"> • Client • Server • Web Administration Tool 	Client

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.1 are marked with an asterisk (*).

iSeries and pSeries Linux (64-bit)			
Version	Browser	Web Application Server	DB2 Universal Database Enterprise Server Edition
Red Hat Enterprise Linux 4	Firefox 1.5	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 	<ul style="list-style-type: none"> • 8 Fix Pack 10 or higher level fix pack • 9.1 Fix Pack 2 *

iSeries and pSeries Linux (64-bit)			
Version	Browser	Web Application Server	DB2 Universal Database Enterprise Server Edition
Red Hat Enterprise Linux 5	Firefox 1.5	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 	9.1 Fix Pack 2 *
SuSE Linux Enterprise Server 9, 10	Firefox 1.5	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 	<ul style="list-style-type: none"> • 8 Fix Pack 10 or higher level fix pack • 9.1 Fix Pack 2 *

Notes:

1. Not all Fix Pack levels of DB2 are supported. Be sure that the Fix Pack level you are using is supported.
2. The application server is required on the computer where the Web Administration Tool is installed. The application server is not required for the client or the server.

In addition:

Other software

- If you install the Red Hat Enterprise Linux 5 operating system with SELINUX enabled (which is the default), instance creation fails. If you have already installed the operating system and SELINUX is enabled, use the `setenforce 0` command to disable it. Then, in the `/etc/selinux/config` file, change `SELINUX=enforcing` to `SELINUX=disabled`.
- The Korn shell, provided in the `pdksh rpm` package for all versions of Linux except SUSE LINUX Enterprise Server 10 and Red Hat Enterprise Linux 5, is required. Install the most recent version for your operating system.
The `pdksh rpm` package is not available for SUSE LINUX Enterprise Server 10 or Red Hat Enterprise Linux 5. However, you must install a `ksh` package.
- GSKit 7.0.3.30 is provided. The minimum supported level of GSKit is 7.0.3.20. To use GSKit, the IBM JDK 1.5 or an equivalent JDK is required.
- Java 1.5.0.5 (runtime only) is provided.
- If you want to install the client or a server on Red Hat versions of Linux, you must install the following packages, which are included with the operating system, before you install IBM Tivoli Directory Server:
 - `compat-gcc`
 - `compat-gcc-c++`
 - `compat-libstdc++`
 - `compat-libstdc++`
 - `glibc-devel`
 - `glibc-headers`
 - `glibc-kernheaders`

Note: You might need to upgrade to the latest patch level of these packages. See the Red Hat support site at <http://rhn.redhat.com> for patches for Red Hat Enterprise Linux.

- The server runtime and the Administration and Monitoring Console components from IBM Tivoli Directory Integrator 6.1.1 are provided, as well as the required deployment engine.
- It is important that you install any operating system requirements that are necessary for the version of DB2 that you are using. For DB2 requirements, go to the following Web address: <http://www.ibm.com/software/data/db2/udb/sysreqs.html>
- If you want to use the **idsupport** tool to gather device information for problem determination, you must install the procinfo package.

Other hardware

- If you plan to use the InstallShield GUI to install, be sure that you have at least 100 MB of free space in the /var directory and at least 300 MB in the /tmp directory (or the directory you want to use as a temporary directory).

Requirements on Solaris SPARC operating systems

The following table shows the versions of Solaris SPARC on which IBM Tivoli Directory Server 6.1 is supported.

Note: Trusted Solaris is not supported.

Solaris SPARC (64-bit)		
Operating system version	64-bit Directory Server components	32-bit Directory Server components
Solaris 9, 10	<ul style="list-style-type: none"> • Client • Server • Web Administration Tool 	Client

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.1 are marked with an asterisk (*).

Solaris SPARC (64-bit)			
Version	Browser	Web Application Server	DB2 Universal Database Enterprise Server Edition
Solaris 9, 10	Firefox 2.0.0.3	<ul style="list-style-type: none"> • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 * 	<ul style="list-style-type: none"> • 8 Fix Pack 11 or higher level fix pack • 9.1 Fix Pack 2 *

Notes:

1. Not all Fix Pack levels of DB2 are supported. Check the list carefully to be sure that the Fix Pack level you are using is supported.
2. The Web browser is required on the computer from which you will use the Web Administration Tool. (This might or might not be the computer where the Web Administration Tool is installed).
3. The application server is required on the computer where the Web Administration Tool is installed. The application server is not required for the client or the server.

In addition:

Other software

- The Korn shell is required.
- GSKit 7.0.3.30 is provided. The minimum supported level of GSKit is 7.0.3.20. To use GSKit, the following are required:
 - On Solaris 9, the following patch is required for the gsk runtime: 111711-08.
 - The IBM JDK 1.5 or an equivalent JDK is required. Patches are required for the Java 2 Runtime Environment, v 1.4.2.
 To obtain patches, see the SunSolve support Web site at:
<http://sunsolve.sun.com/pub-cgi/show.pl?target=patches/J2SE>.
 Also see <http://java.sun.com/j2se/1.3/font-requirements.html> for information about which font packages should be on your system.
- Java 1.5.0.5 is provided.
- The server runtime and the Administration and Monitoring Console components from IBM Tivoli Directory Integrator 6.1.1 are provided, as well as the required deployment engine.
- Ensure that the code page conversion routines (en_US.UTF-8 1.0) are installed.
- It is important that you install any operating system requirements that are necessary for the version of DB2 that you are using. For DB2 requirements, go to the following Web address: <http://www.ibm.com/software/data/db2/udb/sysreqs.html>

Other hardware

- If you plan to use the InstallShield GUI to install, be sure that you have at least 100 MB of free space in the /var directory and at least 400 MB in the /tmp directory (or the directory you want to use as a temporary directory).

Requirements on Solaris X64 operating systems

The following table shows the versions of Solaris X64 on which IBM Tivoli Directory Server 6.1 is supported.

Note: Trusted Solaris is not supported.

Solaris X64 (64-bit)		
Operating system version	64-bit Directory Server components	32-bit Directory Server components
Solaris 10	<ul style="list-style-type: none"> • Client • Server • Web Administration Tool 	Client

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.1 are marked with an asterisk (*).

Solaris X64 (64-bit)			
Version	Browser	Web Application Server	DB2 Universal Database Enterprise Server Edition
Solaris 10	Mozilla 1.7	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 * 	<ul style="list-style-type: none"> • 8 Fix Pack 11, 14 • 9.1 Fix Pack 1 *

Notes:

1. Not all Fix Pack levels of DB2 are supported. Be sure that the Fix Pack level you are using is supported.
2. The Web browser is required on the computer from which you will use the Web Administration Tool. (This might or might not be the computer where the Web Administration Tool is installed).
3. The application server is required on the computer where the Web Administration Tool is installed. The application server is not required for the client or the server.

In addition:

Other software

- The Korn shell is required.
- GSKit 7.0.3.30 is provided. The minimum supported level of GSKit is 7.0.3.20. To use GSKit, the IBM JDK 1.5 or an equivalent JDK is required.
- Java 1.5.0.5 is provided.
- The server runtime and the Administration and Monitoring Console components from IBM Tivoli Directory Integrator 6.1.1 are **not** provided.
- Ensure that the code page conversion routines (en_US.UTF-8 1.0) are installed.
- It is important that you install any operating system requirements that are necessary for the version of DB2 that you are using. For DB2 requirements, go to the following Web address: <http://www.ibm.com/software/data/db2/udb/sysreqs.html>

Other hardware

- If you plan to use the InstallShield GUI to install, be sure that you have at least 100 MB of free space in the /var directory and at least 400 MB in the /tmp directory (or the directory you want to use as a temporary directory).

Requirements on HP-UX PA-RISC operating systems

The following table shows the versions of HP-UX PA-RISC on which IBM Tivoli Directory Server 6.1 is supported.

HP-UX PA-RISC (64-bit)		
Operating system version	64-bit Directory Server components	32-bit Directory Server components
HP-UX 11i v2	<ul style="list-style-type: none"> • Client • Server • Web Administration Tool 	Client

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.1 are marked with an asterisk (*).

HP-UX PA-RISC (64-bit)			
Version	Browser	Embedded WebSphere Application Server or WebSphere Application Server	DB2 Universal Database Enterprise Server Edition (ESE)
HP-UX 11i v2	Firefox 1.5	<ul style="list-style-type: none"> • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 * 	<ul style="list-style-type: none"> • 8 Fix Pack 14 • 9 Fix Pack 2 *

Notes:

1. Not all Fix Pack levels of DB2 are supported. Check the list carefully to be sure that the Fix Pack level you are using is supported.
2. The Web browser is required on the computer from which you will use the Web Administration Tool. (This might or might not be the computer where the Web Administration Tool is installed).
3. The application server is required on the computer where the Web Administration Tool is installed. The application server is not required for the client or the server.

In addition:

Other software

- The Korn shell is required.
- GSKit 7.0.3.30 is provided. The minimum supported level of GSKit is 7.0.3.20. To use GSKit, the IBM JDK 1.5 or an equivalent JDK is required.
- Java 1.5.0.5 is provided.
- The server runtime and the Administration and Monitoring Console components from IBM Tivoli Directory Integrator 6.1.1 are provided, as well as the required deployment engine.
- For the server, be sure to set the current kernel configuration parameters. See the *IBM Tivoli Directory Server version 6.1 Installation and Configuration Guide* for the required parameters.
- It is important that you install any operating system requirements that are necessary for the version of DB2 that you are using. For DB2 requirements, go to the following Web address: <http://www.ibm.com/software/data/db2/udb/sysreqs.html>

Other hardware

- If you plan to use the InstallShield GUI to install, be sure that you have at least 100 MB of free space in the /var directory and at least 400 MB in the /tmp directory (or the directory you want to use as a temporary directory).

Requirements on HP-UX Integrity operating systems

The following table shows the versions of HP-UX Integrity on which IBM Tivoli Directory Server 6.1 is supported.

HP-UX Integrity (64-bit)		
Operating system version	64-bit Directory Server components	32-bit Directory Server components
HP-UX 11i v2	<ul style="list-style-type: none"> • Client • Server • Web Administration Tool 	Client

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.1 are marked with an asterisk (*).

HP-UX Integrity (64-bit)			
Version	Browser	Web Application Server	DB2 Universal Database Enterprise Server Edition
HP-UX 11i v2	N/A	<ul style="list-style-type: none"> • Apache Tomcat 5.5 • WebSphere Application Server 6.1 Fix Pack 7 • Embedded WebSphere Application Server 6.1.0.7 * 	<ul style="list-style-type: none"> • 8 Fix Pack 11 or higher level fix pack • 9 Fix Pack 2 *

Notes:

1. Not all Fix Pack levels of DB2 are supported. Be sure that the Fix Pack level you are using is supported.
2. The Web browser is required on the computer from which you will use the Web Administration Tool. (This might or might not be the computer where the Web Administration Tool is installed).
3. The application server is required on the computer where the Web Administration Tool is installed. The application server is not required for the client or the server.

In addition:

Other software

- The Korn shell is required.
- GSKit 7.0.3.30 is provided. The minimum supported level of GSKit is 7.0.3.20. To use GSKit, the IBM JDK 1.5 or an equivalent JDK is required.
- Java 1.5.0.5 is provided.
- The server runtime and the Administration and Monitoring Console components from IBM Tivoli Directory Integrator 6.1.1 are **not** provided.
- For the server, be sure to set the current kernel configuration parameters. See the *IBM Tivoli Directory Server version 6.1 Installation and Configuration Guide* for the required parameters.
- It is important that you install any operating system requirements that are necessary for the version of DB2 that you are using. For DB2 requirements, go to the following Web address: <http://www.ibm.com/software/data/db2/udb/sysreqs.html>

Other hardware

- If you plan to use the InstallShield GUI to install, be sure that you have at least 100 MB of free space in the /var directory and at least 400 MB in the /tmp directory (or the directory you want to use as a temporary directory).

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