



System requirements and supported operating systems for IBM Tivoli Directory Server version 6.0

About

This document contains the most current system requirements for IBM® Tivoli® Directory Server version 6.0 and its fix levels.

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

List of changes

September 2005

Added the following:

- Requirement for Service Pack 3 on SUSE LINUX Enterprise Server 8 for xSeries® Linux® operating systems
- Support for Red Hat Enterprise Linux v.4
- Support for Solaris 10

March 2006

Added note that support for Red Hat Enterprise Linux v.4 on iSeries™ and pSeries® Linux requires an IBM Tivoli Directory Server version 6.0 fix.

May 2006

Added notes to Solaris 10 information. (Only operating system utility installation is available.)

June 2006

Added the following:

- Information about support for Solaris x86-64.
- Added Client, Server, and Web Administration Tool support to "32-bit on 64-bit operating system" for iSeries and pSeries Linux. (This was left out in error.)

October 2006

Added Information about support for SUSE Linux Enterprise Server 10 on xSeries, iSeries, and pSeries Linux.

November 2006

Added information about support for client on HP-UX for Integrity with IBM Tivoli Directory Server 6.0 fix.

December 2006

Added information about support for client on Windows® Vista with IBM Tivoli Directory Server 6.0 fix.

March 2007

Added the following:

- Support for server on HP-UX IA64 for Integrity
- Support on Red Hat Enterprise Linux 5

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Requirements that are common to all operating systems

The following are required on all supported operating systems:

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.

Note: If you are running DB2® 8.1 on Solaris, at least 640 MB of memory is required.

- At least 256 MB for each database instance. (This is not required for a proxy server.)
- At least 256 MB for running the Web Administration Tool and the embedded version of WebSphere® Application Server - Express on the same computer.

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

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 6.0 Installation and Configuration Guide*.

Requirements on Windows operating systems

The following table shows the versions of Windows on which IBM Tivoli Directory Server 6.0 is supported.

Intel® 32-bit Windows on IA32	
Operating system version	32-bit Directory Server components
Windows 2000 Professional Windows 2000 Server Windows 2000 Advanced Server	Client, Server, Web Administration Tool
Windows XP Professional	Client
Windows Server 2003 Standard, Windows Server 2003 Enterprise	Client, Server, Web Administration Tool
Windows Vista Note: Support on Windows Vista requires IBM Tivoli Directory Server 6.0 Fix Pack 3 or later fix.	Client

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.0 are marked with an asterisk (*).

Intel 32-bit Windows on IA32				
Version	Browser	IBM Network Authentication System (NAS) (Kerberos)	embedded version of WebSphere Application Server - Express or WebSphere Application Server	DB2 Universal Database™ Enterprise Server Edition (ESE)
Windows 2000 Professional Windows 2000 Server Windows 2000 Advanced Server Windows Server 2003 Standard Windows Server 2003 Enterprise	Internet Explorer 5.5+, 6.x; Mozilla 1.6, 1.7, 1.75 (Firefox 1.0)	NAS client 1.4.0.2 for Windows *	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 1 8 Fix Pack 2 8 Fix Pack 3 8 Fix Pack 4 8 Fix Pack 5 8 Fix Pack 6a 8 Fix Pack 6b 8 Fix Pack 8 refresh *
Windows XP Professional	Internet Explorer 5.5+, 6.x; Mozilla 1.6, 1.7, 1.75 (Firefox 1.0)	NAS client 1.4.0.2 for Windows *	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 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

- GSKit 7.0.3.3 is provided and is the only supported version of GSKit on all operating systems except Windows Vista. On Windows Vista, GSKit 7.0.3.27 is supported. To use GSKit, the IBM JDK 1.4.2 or an equivalent JDK is required.
- Java™ 1.4.2 (runtime only) is provided.
- If you acquire IBM Tivoli Directory Server through Passport Advantage®, it includes a copy of IBM Tivoli Directory Integrator 6.0 with Fix Pack 1 for limited use with IBM Tivoli Directory Server 6.0. (Installation instructions are included with the package.)
- 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 100 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 6.0 is supported.

AIX on pSeries (64-bit/32-bit)			
Operating system version	64-bit Directory Server components	32-bit Directory Server components	32-bit on 64-bit operating system
AIX 5.1 (Maintenance Level 7 or higher maintenance level for client or server)	Client, Server, Web Administration Tool	Client (operating system utility installation only)	N/A
AIX 5.2 (Maintenance Level 5 or higher maintenance level for client or server)	Client, Server, Web Administration Tool	Client (operating system utility installation only)	N/A
AIX 5.3 (Maintenance Level 1 or higher maintenance level for client or server)	Client, Server, Web Administration Tool	Client (operating system utility installation only)	N/A

Note: If you installed maintenance levels and have nothing else to install (such as 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 6.0 are marked with an asterisk (*).

AIX on pSeries (64-bit/32-bit)				
Version	Browser	IBM Network Authentication System (NAS) (Kerberos)	embedded version of WebSphere Application Server - Express or WebSphere Application Server	DB2 Universal Database Enterprise Server Edition (ESE)
AIX 5.1 (Maintenance Level 7 or higher maintenance level) AIX 5.2 (Maintenance Level 5 or higher maintenance level) AIX 5.3 (Maintenance Level 1 or higher maintenance level)	Mozilla 1.6, 1.7, 1.75 (Firefox 1.0)	NAS client 1.4 for AIX	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 3 8 Fix Pack 4 8 Fix Pack 5 8 Fix Pack 6a 8 Fix Pack 6b 8 Fix Pack 7a 8 Fix Pack 8 refresh *

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/unixservers/aixfixes.html>.

3. 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).
4. 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.
5. On AIX 5.3, IBM NAS (Kerberos) 1.4 is provided on the AIX operating system CDs.
6. IBM Tivoli Directory Server 6.0 is designed and tested to be used on 64-bit hardware and running on a 64-bit kernel for optimal performance. IBM Tivoli Directory Server 6.0 supports running on AIX operating systems with the IBM Tivoli Directory Server 6.0 64-bit binaries on a 32-bit kernel on 64-bit hardware. You can install the 64-bit binaries on a 32-bit kernel on 64-bit hardware only by using operating system utilities such as **installp** or SMIT. Installation through the InstallShield GUI is not supported and will not work on a 32-bit kernel.

In addition:

Other software

- The Korn shell is required.
- GSKit 7.0.3.3 is provided and is the only supported version of GSKit. To use GSKit, the IBM JDK 1.4.2 or an equivalent JDK is required.
- On AIX 5.1, 5.2, and 5.3 the x1C.aix50rte 6.0.0.0 or later fileset is required for GSKit 7.0.3.3.
- Java 1.4.2 (runtime only) is provided.
- If you acquire IBM Tivoli Directory Server through Passport Advantage, it includes a copy of IBM Tivoli Directory Integrator 6.0 with Fix Pack 1 for limited use with IBM Tivoli Directory Server 6.0. (Installation instructions are included with the package.)
- 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 one of the following:
 - At least 100 MB in the /tmp directory if installing only the client
 - At least 400 MB in the /tmp directory if installing a server
- 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 -El 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 6.0 is supported.

xSeries Linux (32-bit)	
Operating system version	32-bit Directory Server components
Red Hat Enterprise Linux AS 3.0, Update 1, 2, 3, or 4 Red Hat Enterprise Linux ES 3.0, Update 1, 2, 3, or 4 SUSE LINUX Enterprise Server 9 Red Hat Enterprise Linux 5 Note: Support on Red Hat Enterprise Linux 5 on xSeries requires IBM Tivoli Directory Server 6.0 Fix Pack 4 or later fix.	Client, Server, Web Administration Tool
Red Hat Enterprise Linux v.4	Client, Server, Web Administration Tool (operating system utility installation only)
SUSE LINUX Enterprise Server 8, Service Pack 3	Client, Full server, Web Administration Tool. (You must install the proxy server if you install the full server. However, using the proxy server as a proxy server is not supported on this operating system.)
SUSE LINUX Enterprise Server 10 Note: Support on SUSE LINUX Enterprise Server 10 requires IBM Tivoli Directory Server 6.0 Fix Pack 3 or later fix.	Client, Server (operating system utility installation only)

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.0 are marked with an asterisk (*).

xSeries Linux (32-bit)				
Version	Browser	IBM Network Authentication System (NAS) (Kerberos)	embedded version of WebSphere Application Server - Express or WebSphere Application Server	DB2 Universal Database Enterprise Server Edition (ESE)
Red Hat Enterprise Linux AS 3.0, Update 1, 2, 3, or 4 Red Hat Enterprise Linux ES 3.0, Update 1, 2, 3, or 4	Mozilla 1.6, 1.7, 1.75 (Firefox 1.0)	N/A	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 5 8 Fix Pack 6a 8 Fix Pack 6b 8 Fix Pack 7a 8 Fix Pack 8 refresh *
Red Hat Enterprise Linux v.4 Red Hat Enterprise Linux 5 Note: Support on Red Hat Enterprise Linux 5 on xSeries requires IBM Tivoli Directory Server 6.0 Fix Pack 4 or later fix.	Mozilla 1.7.x (Firefox 1.0.6)	N/A	6.0.1	8 Fix Pack 8 refresh * 8 Fix Pack 9 (Upgrade to this fix pack for best results)
SUSE LINUX Enterprise Server 8, Service Pack 3	Mozilla 1.6, 1.7, 1.75 (Firefox 1.0)	N/A	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 5 8 Fix Pack 6a 8 Fix Pack 6b 8 Fix Pack 7a 8 Fix Pack 8 refresh *

xSeries Linux (32-bit)				
Version	Browser	IBM Network Authentication System (NAS) (Kerberos)	embedded version of WebSphere Application Server - Express or WebSphere Application Server	DB2 Universal Database Enterprise Server Edition (ESE)
SUSE LINUX Enterprise Server 9	Mozilla 1.6, 1.7, 1.75 (Firefox 1.0)	N/A	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 8 refresh *
SUSE LINUX Enterprise Server 10	N/A	N/A	N/A	8 Fix Pack 8 refresh * + Fix Pack 13

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. Therefore:

- On SUSE LINUX Enterprise Server 10, a `ksh` package must be installed and the `idsldap-cltbase60` package must be installed using **rpm** with the `'--nodeps'` flag. (InstallShield GUI installation is not supported for SUSE LINUX Enterprise Server 10.)
- On Red Hat Enterprise Linux 5, a `ksh` package must be installed and the client and server packages must be installed using **rpm** with the `'--nodeps'` flag.
- 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

If you want to install the Java client or a server on Red Hat Enterprise Linux AS 3.0, you must install the following packages before you install IBM Tivoli Directory Server:

- compat-gcc
- compat-libstdc++
- compat-libstdc++-devel
- compat-gcc-c++

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 7.0.3.3 is provided. To use GSKit, the IBM JDK 1.4.2 or an equivalent JDK is required.
- Java 1.4.2 (runtime only) is provided.
- If you acquire IBM Tivoli Directory Server through Passport Advantage, it includes a copy of IBM Tivoli Directory Integrator 6.0 with Fix Pack 1 for limited use with IBM Tivoli Directory Server 6.0. (Installation instructions are included with the package.)
- 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 **idssupport** 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 one of the following:
 - At least 100 MB in the /tmp directory (or the directory you want to use as a temporary directory) if installing only the client
 - At least 400 MB in the /tmp directory (or the directory you want to use as a temporary directory) if installing a server

Requirements on zSeries Linux operating systems

The following table shows the versions of zSeries® Linux on which IBM Tivoli Directory Server 6.0 is supported.

zSeries Linux (31-bit and 64-bit)		
Operating system version	64-bit Directory Server components	31-bit Directory Server components
zSeries Linux (31-bit) operating system version		
Red Hat Enterprise Linux AS 3.0, Update 1, 2, 3, or 4 SUSE LINUX Enterprise Server 9	N/A	Client, Server, Web Administration Tool
Red Hat Enterprise Linux v.4		Client, Server, Web Administration Tool (operating system utility installation only)
SUSE LINUX Enterprise Server 8		Client, Full server, Web Administration Tool. (You must install the proxy server if you install the full server. However, using the proxy server as a proxy server is not supported on this operating system.)
zSeries Linux (64-bit) operating system version		
Red Hat Enterprise Linux AS 3.0, Update 1, 2, 3, or 4 SUSE LINUX Enterprise Server 8 SUSE LINUX Enterprise Server 9	Client (operating system utility installation only)	N/A

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.0 are marked with an asterisk (*).

zSeries Linux				
Version	Browser	IBM Network Authentication System (NAS) (Kerberos)	embedded version of WebSphere Application Server - Express or WebSphere Application Server	DB2 Universal Database Enterprise Server Edition (ESE)
zSeries Linux (31-bit) operating system version				
Red Hat Enterprise Linux AS 3.0, Update 1, 2, 3, or 4	None	N/A	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 5 8 Fix Pack 6a 8 Fix Pack 6b 8 Fix Pack 7a 8 Fix Pack 8 refresh *
Red Hat Enterprise Linux v.4	Mozilla 1.7.x (Firefox 1.0.6)	N/A	6.0.1	8 Fix Pack 8 refresh * 8 Fix Pack 9 (Upgrade to this fix pack for best results)

zSeries Linux				
Version	Browser	IBM Network Authentication System (NAS) (Kerberos)	embedded version of WebSphere Application Server - Express or WebSphere Application Server	DB2 Universal Database Enterprise Server Edition (ESE)
zSeries Linux (31-bit) operating system version				
SUSE LINUX Enterprise Server 8	None	N/A	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 5 8 Fix Pack 6a 8 Fix Pack 6b 8 Fix Pack 7a 8 Fix Pack 8 refresh *
SUSE LINUX Enterprise Server 9	None	N/A	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 8 refresh *

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. 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 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, provided in the pdksh rpm package for your version of Linux, is required. Install the most recent version for your operating system.
- On 31-bit versions only, GSKit 7.0.3.3 is provided and is the only supported version of GSKit. To use GSKit, the IBM JDK 1.4.2 or an equivalent JDK is required.
- Java 1.4.2 (runtime only) is provided on 31-bit versions only.
- 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++-295-2.95.3
 - compat-libstdc++-33-3.2.3
 - 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.

- On 31-bit versions only, if you acquire IBM Tivoli Directory Server through Passport Advantage, it includes a copy of IBM Tivoli Directory

Integrator 6.0 with Fix Pack 1 for limited use with IBM Tivoli Directory Server 6.0. (Installation instructions are included with the package.)

- 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 **idssupport** 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 one of the following:
 - At least 100 MB in the /tmp directory (or the directory you want to use as a temporary directory) if installing only the client
 - At least 400 MB in the /tmp directory (or the directory you want to use as a temporary directory) if installing a server

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 6.0 is supported.

iSeries and pSeries Linux (64-bit)			
Operating system version	64-bit Directory Server components	32-bit Directory Server components	32-bit on 64-bit operating system
Red Hat Enterprise Linux AS 3.0, Update 1, 2, 3, or 4 Red Hat Enterprise Linux 5 Note: Support on Red Hat Enterprise Linux 5 on iSeries and pSeries Linux requires IBM Tivoli Directory Server 6.0 Fix Pack 4 or later fix.	Client (operating system utility installation only)	Client, Server, Web Administration Tool	Client, Server, Web Administration Tool
Red Hat Enterprise Linux v.4 Note: Support on Red Hat Enterprise Linux v.4 on iSeries and pSeries Linux requires IBM Tivoli Directory Server 6.0 Fix Pack 1 or later fix.	N/A	Client, Server, Web Administration Tool (operating system utility installation only)	Client, Server, Web Administration Tool
SUSE LINUX Enterprise Server 8	N/A	Client, Server, Web Administration Tool	Client, Full server, Web Administration Tool. (You must install the proxy server if you install the full server. However, using the proxy server as a proxy server is not supported on this operating system.)
SUSE LINUX Enterprise Server 9	Client (operating system utility installation only)	Client, Server, Web Administration Tool	Client, Server, Web Administration Tool
SUSE LINUX Enterprise Server 10 Note: Support on SUSE LINUX Enterprise Server 10 requires IBM Tivoli Directory Server 6.0 Fix Pack 3 or later fix.	Client (operating system utility installation only)	Client, Server (operating system utility installation only)	Client, Server (operating system utility installation only)

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.0 are marked with an asterisk (*).

iSeries and pSeries Linux (64-bit)				
Version	Browser	IBM Network Authentication System (NAS) (Kerberos)	embedded version of WebSphere Application Server - Express or WebSphere Application Server	DB2 Universal Database Enterprise Server Edition (ESE)
Red Hat Enterprise Linux AS 3.0, Update 1, 2, 3, or 4	None	N/A	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 5 8 Fix Pack 6a 8 Fix Pack 6b 8 Fix Pack 7a 8 Fix Pack 8 refresh *
Red Hat Enterprise Linux v.4 Red Hat Enterprise Linux 5 Note: Support on Red Hat Enterprise Linux v.4 on iSeries and pSeries Linux requires IBM Tivoli Directory Server 6.0 Fix Pack 1 or later fix. Support on Red Hat Enterprise Linux 5 on iSeries and pSeries Linux requires IBM Tivoli Directory Server 6.0 Fix Pack 4 or later fix.	Mozilla 1.7.x (Firefox 1.0.6)	N/A	6.0.1	8 Fix Pack 8 refresh * 8 Fix Pack 9 (Upgrade to this fix pack for best results)
SUSE LINUX Enterprise Server 8	None	N/A	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 5 8 Fix Pack 6a 8 Fix Pack 6b 8 Fix Pack 7a 8 Fix Pack 8 refresh *
SUSE LINUX Enterprise Server 9	None	N/A	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 8 refresh *
SUSE LINUX Enterprise Server 10	N/A	N/A	N/A	8 Fix Pack 8 refresh * + Fix Pack 13

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. No Web browsers are supported for the Web Administration Tool on computers running iSeries and pSeries 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 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. Therefore:

- On SUSE LINUX Enterprise Server 10, a `ksh` package must be installed and the `idslldap-cltbase60` package must be installed using **rpm** with the '`--nodeps`' flag. (InstallShield GUI installation is not supported for SUSE LINUX Enterprise Server 10.)
- On Red Hat Enterprise Linux 5, a `ksh` package must be installed and the client and server packages must be installed using **rpm** with the '`--nodeps`' flag.
- GSKit 7.0.3.3 is provided. To use GSKit, the IBM JDK 1.4.2 or an equivalent JDK is required.
- Java 1.4.2 (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++-296`
 - `compat-libstdc++-33` (Both ppc (32-bit) and ppc64 (64-bit) rpms)
 - `glibc-devel`
 - `glibc-headers`
 - `glibc-kernheaders`
 - `libgcc-3.4.3-9.EL4` (Both ppc and ppc64 rpms)

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.

- If you acquire IBM Tivoli Directory Server through Passport Advantage, it includes a copy of IBM Tivoli Directory Integrator 6.0 with Fix Pack 1 for limited use with IBM Tivoli Directory Server 6.0. (Installation instructions are included with the package.)
- 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 one of the following:
 - At least 100 MB in the `/tmp` directory (or the directory you want to use as a temporary directory) if installing only the client
 - At least 400 MB in the `/tmp` directory (or the directory you want to use as a temporary directory) if installing a server

Requirements on Solaris SPARC operating systems

The following table shows the versions of Solaris SPARC on which IBM Tivoli Directory Server 6.0 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	32-bit on 64-bit operating system
Solaris 8	Client (operating system utility installation only)	Client, Server, Web Administration Tool	Client, Server, Web Administration Tool
Solaris 9	Client (operating system utility installation only)	Client, Server, Web Administration Tool	Client, Server, Web Administration Tool
Solaris 10	Client (operating system utility installation only)	Client, Server, Web Administration Tool (operating system utility installation only)	Client, Server, Web Administration Tool (operating system utility installation only)

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.0 are marked with an asterisk (*).

Solaris SPARC (64-bit)				
Version	Browser	IBM Network Authentication System (NAS) (Kerberos)	embedded version of WebSphere Application Server - Express or WebSphere Application Server	DB2 Universal Database Enterprise Server Edition (ESE)
Solaris 8	Mozilla 1.6, 1.7, 1.75 (Firefox 1.0)	N/A	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 1 8 Fix Pack 2 8 Fix Pack 3 8 Fix Pack 4 8 Fix Pack 5 8 Fix Pack 6a 8 Fix Pack 6b 8 Fix Pack 7a 8 Fix Pack 8 refresh *
Solaris 9	Mozilla 1.6, 1.7, 1.75 (Firefox 1.0)	N/A	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 1 8 Fix Pack 2 8 Fix Pack 3 8 Fix Pack 4 8 Fix Pack 5 8 Fix Pack 6a 8 Fix Pack 6b 8 Fix Pack 7a 8 Fix Pack 8 refresh *
Solaris 10	Mozilla 1.6, 1.7, 1.75 (Firefox 1.0)	N/A	6.0.1	8 Fix Pack 8 refresh *

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 7.0.3.3 is provided and is the only supported version of GSKit. To use GSKit, the following are required:
 - On Solaris 8, the following patches are required: 108434-14, 111327-05, 108991, 108993-31, 108528-29, 113648-03, 116602-01, 111317-05, 111023-03, 115827-01
 - On Solaris 9, the following patch is required for the gsk runtime: 111711-08.
 - The IBM JDK 1.4.2 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 1.4.2 (runtime only) is provided.
- If you acquire IBM Tivoli Directory Server through Passport Advantage, it includes a copy of IBM Tivoli Directory Integrator 6.0 with Fix Pack 1 for limited use with IBM Tivoli Directory Server 6.0. (Installation instructions are included with the package.)
- 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 one of the following:
 - At least 100 MB in the /tmp directory (or the directory you want to use as a temporary directory) if installing only the client
 - At least 400 MB in the /tmp directory (or the directory you want to use as a temporary directory) if installing a server

Requirements on Solaris x86-64 operating systems

The following table shows the versions of Solaris x86-64 on which IBM Tivoli Directory Server 6.0 is supported.

Solaris x86-64 (64-bit)			
Operating system version	64-bit Directory Server components	32-bit Directory Server components	32-bit on 64-bit operating system
Solaris 10	Client (operating system utility installation only)	Client, Server, Web Administration Tool (operating system utility installation only)	Client, Server, Web Administration Tool (operating system utility installation only)

Notes:

1. The x86-64 architecture includes both AMD64 (AMD Corporation, Opteron and Athlon machines) and EM64T (Intel) processors.
2. Installing IBM Tivoli Directory Server version 6.0 on Solaris x86-64 also installs fix pack 2 for IBM Tivoli Directory Server, version 6.0.

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.0 are marked with an asterisk (*).

Solaris x86-64 (64-bit)				
Version	Browser	IBM Network Authentication System (NAS) (Kerberos)	embedded version of WebSphere Application Server - Express or WebSphere Application Server	DB2 Universal Database Enterprise Server Edition (ESE)
Solaris 10	Mozilla 1.6, 1.7, 1.75 (Firefox 1.0)	N/A	6.0.2*	8 Fix Pack 11 refresh *

Notes:

1. Not all Fix Pack levels of DB2 are supported. Be sure to install DB2 v8 Fix pack 11, which is provided.
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 7.0.3.19 is provided. To use GSKit, the following are required:
 - The IBM JDK 1.4.2 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 1.4.2 (runtime only) is 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>

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 6.0 is supported.

HP-UX PA-RISC (64-bit)			
Operating system version	64-bit Directory Server components	32-bit Directory Server components	32-bit on 64-bit operating system
HP-UX 11i v1	None	Client, Server, Web Administration Tool (operating system utility installation only)	Client, Server, Web Administration Tool (operating system utility installation only)

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.0 are marked with an asterisk (*).

HP-UX PA-RISC (64-bit)				
Version	Browser	IBM Network Authentication System (NAS) (Kerberos)	embedded version of WebSphere Application Server - Express or WebSphere Application Server	DB2 Universal Database Enterprise Server Edition (ESE)
HP-UX 11i v1	Mozilla 1.6, 1.7, 1.75 (Firefox 1.0)	N/A	5.1.1 * (embedded version is provided), 6.0	8 Fix Pack 1 8 Fix Pack 2 refresh * 8 Fix Pack 3 8 Fix Pack 4 8 Fix Pack 5 8 Fix Pack 6a 8 Fix Pack 6b

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 7.0.3.3 is provided and is the only supported version of GSKit. To use GSKit on HP-UX 11i, patch PHSS_26945 is required for the gsk runtime.
- Java 1.4.2 (runtime only) is provided. The following operating system patches are required.
 1. Quality pack: GOLDBASE11i December 2003

2. Additional patches that are not part of the quality pack. These, or anything that supersedes them:
 - PHKL_25468
 - PHKL_25842
 - PHNE_29887
 - PHCO_29960
 - PHSS_30049
- If you acquire IBM Tivoli Directory Server through Passport Advantage, it includes a copy of IBM Tivoli Directory Integrator 6.0 with Fix Pack 1 for limited use with IBM Tivoli Directory Server 6.0. (Installation instructions are included with the package.)
- For the server, be sure to set the current kernel configuration parameters. See the *IBM Tivoli Directory Server Version 6.0 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>

Requirements on HP-UX for Integrity operating systems

The following table shows the versions of HP-UX for Integrity on which IBM Tivoli Directory Server 6.0 is supported.

HP-UX for Integrity (64-bit)			
Operating system version	64-bit Directory Server components	32-bit Directory Server components	32-bit on 64-bit operating system
HP-UX 11i v2 Note: Support for the client on HP-UX for Integrity requires IBM Tivoli Directory Server 6.0 Fix Pack 3 or later fix.	Client	Client, Server, Web Administration Tool	Client, Server, Web Administration Tool

The following table shows the supported versions of related software. Versions that are provided with IBM Tivoli Directory Server 6.0 are marked with an asterisk (*).

HP-UX for Integrity (64-bit)				
Version	Browser	IBM Network Authentication System (NAS) (Kerberos)	embedded version of WebSphere Application Server - Express or WebSphere Application Server	DB2 Universal Database Enterprise Server Edition (ESE)
HP-UX 11i v2	Mozilla 1.6, 1.7, 1.75 (Firefox 1.0)	N/A	6.0 * (embedded version is provided),	8.2 Fix Pack 10 or higher level fix pack for HP-UX IA64 for Integrity 8.2 Fix Pack 14 for HP-UX IA64 for Integrity *

Notes:

1. Not all Fix Pack levels of DB2 are supported. Be sure that you are using a supported version of DB2.
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 7.0.3.27 is provided.
- Java 1.4.2 (runtime only) is provided.
- The following operating system patches are required.
 1. Quality pack: GOLDBASE11i December 2003

2. Additional patches that are not part of the quality pack. These, or anything that supersedes them:
 - PHCO_34599
 - PHCO_34944
 - PHNE_35182
 - PHSS_34395
- If you acquire IBM Tivoli Directory Server through Passport Advantage, it includes a copy of IBM Tivoli Directory Integrator 6.0 with Fix Pack 1 for limited use with IBM Tivoli Directory Server 6.0. (Installation instructions are included with the package.)
- For the server, be sure to set the current kernel configuration parameters. See the *IBM Tivoli Directory Server Version 6.0 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>