Installation Guide

iPlanet™ Portal Server 3.0

Service Pack 5

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Preface

This guide contains installation information available at the time of the release of iPlanet™ Portal Server Service Pack 5. Installing this product will update the iPlanet Portal Server software to include Service Pack 1, Service Pack 2, Service Pack 3, Service Pack 3a, Service Pack 4, and Service Pack 5.

- An electronic version of these release notes can be found at the iPlanet documentation web site:`http://docs.sun.com/db/prod/sunone`. Check the web site prior to installing and setting up the software and then periodically thereafter to view the most up-to-date release notes and manuals.

Who Should Use This Book

This document is intended for administrators, installers, and developers who are upgrading the iPlanet Portal Server product.

How This Book Is Organized

This installation guide contains the following sections:

- Understanding the Typographic Conventions
- Installation Overview
  - Software and Hardware Requirements
  - Software Dependencies for the Service Pack 5 Upgrade
- Downloading Service Pack 5
  - Contents of iPS3.0SP5-01.zip

Documentation

iPlanet Portal Server documentation includes:

- *iPlanet Portal Server Installation Guide 3.0*
- *iPlanet Portal Server Administration Guide 3.0*
- *iPlanet Portal Server Programmer's Reference Guide 3.0*
- *iPlanet Portal Server 3.0 Release Notes*
- Online help for system administrators at:

  `http://`*`yourserver.domain:port`*`/docs/en_US/javadocs`

Using UNIX Commands

This document contains some information on basic UNIX® commands and procedures. For more information outside of this document, see the following:

- AnswerBook2™ online documentation for the Solaris™ software environment.

- Browse for a specific book title or subject at: `http://docs.sun.com`

Understanding the Typographic Conventions

Table 1 is a three column table that describes the typographic conventions used in this guide. The first column shows an example of the typeface used. The second column explains the meaning of the typeface. The third column provides an example of when the typeface is used.

Table 1 Typographic Conventions

Typeface or Symbol	Meaning	Example
`AaBbCc123`	The names of commands, files, and directories; on-screen computer output	Edit your `.login` file. Use `ls -a` to list all files. `machine_name% You have mail.`
`AaBbCc123`	What you type, contrasted with on-screen computer output	`machine_name% su` `Password:`
AaBbCc123	Book titles, new words or terms, words to be emphasized, or glossary terms.	Read Chapter 6 in the *User's Guide*. These are called *class* options. You *must* be root to do this.
AaBbCc123	Command-line placeholder; replace with a real name or value	To delete a file, type `rm` *`filename`*. `http://server:port/login/`*`domain_name`* Where *`domain_name`* is a Portal domain name.

Shell Prompts in Command Line Interface Examples

Table 2 is a two column table that shows the default system prompt and superuser prompt for the types of shells. The first column lists the type of shell and the second column shows the type of prompt used.

Table 2 Unix Shell Prompts

Shell	Prompt
C shell prompt	`machine_name%`
C shell superuser prompt	`machine_name#`
Bourne shell and Korn shell prompt	`$`
Bourne shell and Korn shell superuser prompt	`#`

Sample Machine Names

Table 3 is a two column table that lists the machine names used in code examples and the type of software installed on each machine. The first column lists the sample machine name and the second column explains what component the machine the machine is running.

Table 3 Sample Machine Names

Machine Name	Running as . . .
`server1`	The primary Portal Server
`server2`	iPlanet Portal Server not being used as the primary server in multiple server installations
`gateway`	iPlanet Portal Server gateway
`proxy`	Web proxy

For More Information

Useful information can be found at the following Internet locations:

- Release notes and other documentation — `http://docs.sun.com/db/prod/sunone`
- Product status — `http://www.sun.com/service/sunone/software/index.html`
- Products and Services information — `http://www.sun.com/service/sunps/sunone/index.html`
- Developer information — `http://developer.iplanet.com/`

- Learning solutions — `http://wwws.sun.com/software/training/`
- Product data sheets — `http://wwws.sun.com/software/`

Chapter 1

Installation Overview

The Service Pack 5 installation script offers the choice of upgrading the existing version of the product or performing a clean installation of the product.

Choosing the upgrade option upgrades the iPlanet Portal Server product to Service Pack 5.

Performing a clean installation removes all of a previous iPlanet Portal Server software installation. A clean installation can be useful if an existing installation has problems that might be resolved by a fresh installation.

When upgrading to iPlanet Portal Server Service Pack 5, perform the upgrade only on machines that have iPlanet Portal Server Service Pack 3 or greater installed. Upgrading from iPlanet Portal Server Service Pack 1 or Service Pack 2 to iPlanet Portal Server Service Pack 5 is not supported.

CAUTION There is a known problem with domain names that contain upper case letters. So when referring to a domain name use all lower case letters. More information is in the “Known Problems and Limitations” section of the Service Pack 5 *Release Notes*.

NOTE The Service Pack 5 software can also be installed as a new iPlanet Portal Server installation requiring no previous iPlanet Portal Server installations.

NOTE IfiPlanet Portal Server software has been previously installed and other modules have been configured to run on top of this software, it is important to read all release notes and updates that pertain to the added modules. This is especially applicable to the Compass 3.01C Release Notes located at: `http://docs.iplanet.com`

Software and Hardware Requirements

This section describes the system requirements for iPlanet Portal Server Service Pack 5 software.

- Table 1-1 is a two column table that describes the minimum system requirements for developing a portal. The first column lists the system component and the second column lists the requirement for that component.
- Table 1-2 is a two column table that describes the minimum system requirements for deploying a portal. The first column lists the system component and the second column lists the requirement for that component.

Table 1-1 Minimum System Requirements for Developing a Portal

Component	Description
Computer type	Two-CPU Ultra Sparc machine.
Operating environment	Solaris™ 2.6, Solaris 7, and Solaris 8; End User System Support Install.
Memory	Each server and gateway component of iPlanet Portal Server should have a minimum of 512 MB of memory.
Partition space	`/tmp` (swap space) 500 MB
	`/var` 500 MB
	`/usr` 1 GB
	`/opt` 1 GB
	`/etc` 500 MB
	Installation directory 500 MB
	If the installation directory is `/opt`, increase this partition to 1.5 GB
Software	Portal Server should not be installed on a system with other server products or other CPU / memory intensive applications.

Table 1-1 Minimum System Requirements for Developing a Portal

Component	Description
Patches	Required or recommended Solaris patches are located in `patches/`*solaris_version*`/`*solaris_version_patch_cluster*. For more information on installing the required or recommended patches, see the "Installing the Required Solaris Patches" section.
Network interfaces	The gateway needs more than one network interface if a firewall is installed on the same machine. The second network interface may be virtual or physical.
Web browsers	Netscape Communicator v 4.06 to 4.7x (except v4.6) or Microsoft Internet Explorer v5.0 or higher with SSL v3.0. JavaScript™ enabled.
PATH environment	The PATH environment variable for the administrative user must include `/usr/sbin:/usr/bin`.

Table 1-2 Minimum System Requirements for Deploying a Portal

Component	Description
Computer type	Two-CPU Ultra Sparc machine.
Operating environment	Solaris 2.6, Solaris 7, and Solaris 8; End User System Support Install.
Memory	Each server and gateway component of iPlanet Portal Server should have a minimum of 1 GB of memory and 2 GB in swap space.
Partition space	`/tmp` (swap space) 2 GB `/var` 1 GB `/usr` 1 GB `/opt` 1 GB `/etc` 500 MB Installation directory 500 MB If the installation directory is `/opt`, increase this partition to 1.5 GB
Software	Portal Server should not be installed on a system with other server products or other CPU / memory intensive applications.
Patches	Required or recommended Solaris patches are located in `patches/`*solaris_version*`/`*solaris_version_patch_cluster*. For more information on installing the required or recommended patches, see the "Installing the Required Solaris Patches" section.

Table 1-2 Minimum System Requirements for Deploying a Portal *(Continued)*

Component	Description
Network interfaces	The gateway needs more than one network interface if a firewall is installed on the same machine. The second network interface may be virtual or physical.
Web browsers	Netscape Communicator v 4.06 to 4.7x (except v4.6) or Microsoft Internet Explorer v5.0 or higher with SSL v3.0.
	JavaScript enabled.
PATH environment	The PATH environment variable for the administrative user must include `/usr/sbin:/usr/bin`.

Software Dependencies for the Service Pack 5 Upgrade

The iPlanet Portal Server 3.0 Service Pack 5 is a cumulative service pack. It includes all of previous service packs and patches. It can be a new install or an upgrade of any iPlanet Portal Server installation.

NOTE Do NOT apply Service Pack 5 on a system that is running Service Pack 3 or 3a with hotpatch 3. Contact iPlanet customer support for instructions to upgrade Service Pack 5.

The iPlanet Portal Server Service Pack 5 includes the following product versions:

- Sun™ONE Directory Server 4.16 SP1
- Sun™ ONE Web Server 4.1 SP12
- JDK™ 1.2.2_16-er-20030716
- JSS 2.1.2 which includes NSS 4.8.6

NOTE Security certificates installed on previous versions of the iPlanet Portal Server are automatically converted to the format required by NSS when Service Pack 5 is installed.

Downloading Service Pack 5

The iPlanet Portal Server Service Pack 5 (iPS3.0SP5-01) software can be downloaded from the iPlanet web page as a series of compressed files.

CAUTION Do not apply iPlanet Portal Server Service Pack 5 to an iPlanet Portal Server that has had Service Pack 3 or 3a and hotpatch 3 applied. Contact iPlanet customer support for instructions to upgrade to Service Pack 5.

NOTE When upgrading to iPlanet Portal Server Service Pack 5, perform the upgrade only on machines that have iPlanet Portal Server Service Pack 3 or greater installed. Upgrading from iPlanet Portal Server Service Pack 1 or Service Pack 2 to iPlanet Portal Server Service Pack 5 is not supported.

Contents of iPS3.0SP5-01.zip

The following directories and files are included in `iPS3.0SP5-01.zip`. For instructions on downloading and assembling the compressed files see the "Downloading Service Pack 5 Software From the Sun Web Page" section.

- iPlanet Portal Server Service Pack 5 packages and scripts
  - `attribute`
  - `ipsinstall`
  - `locale`
  - `patches`

- property
- SUNWicgSA
- SUNWicgSS
- SUNWj2dem
- SUNWj2dev
- SUNWj2man
- SUNWj2rt
- SUNWwtdoc
- SUNWwtds
- SUNWwtdt
- SUNWwtfw
- SUNWwtgwd
- SUNWwtnf
- SUNWwtnm
- SUNWwtrw
- SUNWwtsam
- SUNWwtsvd
- SUNWwtsdd
- SUNWwtws
- template
- update
- LICENSE.txt
- readme.txt

Preparing for Installation

Before you begin installing Service Pack 5, see the following sections for pre-installation tasks.

- Downloading Service Pack 5 Software From the Sun Web Page
- Installing the Required Solaris Patches

- Stopping the Server Component Processes (if it is an upgrade)
- Stopping the Proxies and the Gateway Component Processes (if it is an upgrade)
- Stopping the Third-Party Software Processes and the Channels (if appropriate)
- Installed Software Modules, Customizations, and Third-Party Products
- Saving the Certificates Used by the Server Component

NOTE For the following procedures, use the `/usr/bin/tar` and `/usr/bin/ps` commands.

Downloading Service Pack 5 Software From the Sun Web Page

The iPlanet Portal Server Service Pack 5 software is available from the following web page:

```
http://www.sun.com/software/downloads/
```

The software can be downloaded as a single file or as five 50-Megabyte files. For the 50-Megabyte files, additionally download the `checksums` file and the `assemblePS3SP5` script for assembling the individual files into a single Service Pack 5. The following instructions describe how to check the integrity of the files once they have been downloaded and how to assemble the files for installation.

NOTE If the iPlanet Portal Server installation contains individual gateway and platform servers, the Service Pack 5 software must be installed on all servers.

The following procedures assume that `/opt` is the installation directory.

1. In a terminal window, become root.
2. Create a directory in which to download the Service Pack 5 files and make sure your browser has write permission to that directory. For example, `/opt/ips_sp5`:

```
# cd /opt
# mkdir ips_sp5
```

3. Download single large file (`PS3.0SP5-01.zip`) or the following files into the directory created in Step 2.
   - `PS3.0SP5-01.zip.aaa`
   - `PS3.0SP5-01.zip.aab`
   - `PS3.0SP5-01.zip.aac`
   - `PS3.0SP5-01.zip.aad`
   - `PS3.0SP5-01.zip.aae`
   - `checksums`
   - `assembleiPS3SP5`

   If you downloaded the single large file go to Step 5.
4. In `/opt/ips_sp5`, run the `assemblePS3SP5` script to verify the integrity of downloaded files.

```
# cd /opt/ips_sp5/
# ./assembleiPS3SP5
```

If the script determines that the correct number of files are present and that their data has not been corrupted, a single compressed file `PS3.0SP5-01.zip` is created, which contains all the Service Pack 5 files.

5. Unzip the `PS3.0SP5-01.zip` file.

```
# /usr/bin/unzip PS3.0SP5-01.zip
```

CAUTION Do NOT apply Service Pack 5 on a system that is running Service Pack 3 or 3a with hotpatch 3. Contact iPlanet customer support for instructions to upgrade to Service Pack 5.

Removing Patches

For a clean install on a Service Pack 3 or 3a installation that has applied a hotpatch, remove the hotpatch.

CAUTION For an upgrade, do NOT remove any `111829-xx` patch. This is a hotpatch that has been applied to iPlanet Portal Server software.

To remove a hotpatch that has been applied do the following:

1. List the Service Pack 3 or 3a hotpatch.

```
# showrev -p |grep 111829
```

CAUTION If the patch is 111829-03 (hotpatch 3), do not apply iPlanet Portal Server Service Pack 5. Contact iPlanet customer support for instructions to upgrade to Service Pack 5.

2. As root, use the following command to remove the patch.

```
# patchrm 111829-xx
```

Installing the Required Solaris Patches

The iPlanet Portal Server product is shipped with Solaris patches that are required or recommended for the iPlanet Portal Server software. The directory `/opt/ips_sp5/patches` contains patch directories for each supported version of Solaris. Use the patches in the directory that corresponds to the version of Solaris on which you are installing the iPlanet Portal Server product. Solaris patches are periodically updated, and can be downloaded from `www.sunsolve.sun.com`.

To install the required or recommended Solaris patches:

1. As root, change directories to the patch directory that corresponds to the version of the Solaris operating environment on which the iPlanet Portal Server product is installed. For example, if the iPlanet Portal Server product is installed on the Solaris 8 operating environment:

```
# cd /opt/ips_sp5/patches/solaris8/solaris_2.8_patch_cluster
```

2. Run the `install_cluster` installation script. Depending on the computer on which the Solaris patches are being installed, installation time can take several hours.

```
# ./install_cluster
```

3. Reboot your computer.

```
# reboot
```

Stopping the Server Component Processes

Before upgrading or installing the Service Pack 5 software, stop the following services if they are running:

- Directory server
- Web server

NOTE If both the server and gateway components are running on one machine, stop both processes before starting the installation.

NOTE The following instructions assume that the installation directory is `/opt`.

1. Issue the following command to see which directory server and web server processes are running. Note the processes that are associated with the Portal Server software, then reissue the command after stopping the processes to verify that they have been stopped.

```
# /usr/bin/ps -eo pid,args | grep /opt/netscape
446 ./ns-slapd -f /opt/netscape/directory4/slapd-server1/config/slapd.conf -i
/opt/
467 ns-httpd -d /opt/netscape/server4/https-server1.sesta.com/con
458 ./uxwdog -d /opt/netscape/server4/https-admserv/config
466 ./uxwdog -d /opt/netscape/server4/https-server1.sesta.com/con
459 ns-httpd -d /opt/netscape/server4/https-admserv/config
29857 ./ns-admin -d /opt/netscape/directory4/admin-serv/config
```

In this example, the process id numbers correspond with the following processes. All of the following processes must be stopped before installing or upgrading to Service Pack 5.

process id	process
446	directory server process
467	web server process
458	watchdog process for web server admin service
466	watchdog service for the web server
459	admin service for the web server
29857	admin service for the directory server

2. Stop the iPlanet Portal Server server component. This step stops the directory server and web server processes.

   - If running iPlanet Portal Server or iPlanet Portal Server Service Pack 1, start and stop the server component in the following way.

NOTE If running iPlanet Portal Server Service Pack 1 or Service Pack 2, a clean install of Service Pack 5 can be performed, but upgrading is not supported.

```
# /etc/init.d/ipsserver start
stopping auth helpers ... done.
stopping web server ... done.
stopping directory server ... done.
starting auth helpers ... done.
starting directory server ... done.
starting web server ... done.
# /etc/init.d/ipsserver stop
stopping auth helpers ... done.
stopping web server ... done.
stopping directory server ... done.
```

If running iPlanet Portal Server Service Pack 2, Service Pack 3, Service Pack 3a, or Service Pack 4 stop the server component in the following way.

```
# /etc/init.d/ipsserver stopall
stopping auth helpers ... done.
stopping web server ... done.
stopping directory server ... done.
```

3. Verify that all directory server and web server processes are stopped. The processes that were running in Step 1 should no longer be displayed.

```
# /usr/bin/ps -eo pid,args | grep /opt/netscape
```

4. If the directory server is still running (process 446), use the following command to stop it.

```
# /opt/netscape/directory4/slapd-servername/stop-slapd
```

5. If any other processes are still running, issue a `kill -TERM` *`process_id`* for each directory server process or web server process that is running under iPlanet Portal Server. For example:

```
# kill -TERM 467
```

Stopping the Proxies and the Gateway Component Processes

Before installing or upgrading to Service Pack 5, the following processes need to be stopped.

- `ipshttpd` proxy process
- `ipsnetletd` proxy process
- gateway Java™ process

1. Issue the following command to see which gateway processes are running. By viewing the processes that are currently running, you can reissue the command after stopping the processes to verify that they have been stopped.

```
# /usr/bin/ps -eo pid,args|grep java
481 /usr/java/bin/../jre/bin/../bin/sparc/native_threads/java
-ms32m -mx128m -class
503 /usr/java/bin/../jre/bin/../bin/sparc/native_threads/java
-ms32m -mx128m -class
741 /usr/jave/bin/../jre/bin/../bin/sparc/native_threads/java
-ms32m -mx128m -class
```

In this example the process id numbers correspond with the following processes.

```
process id      proxy process
481             ipshttpd process
503             ipsnetletd process
741             gateway process
```

2. Stop the `ipshttpd` or `ipsnetletd` proxies that are running on the server component.

```
# /opt/SUNWips/bin/ipshttpd stop
# /opt/SUNWips/bin/ipsnetletd stop
```

3. Stop the iPlanet Portal Server gateway component.

```
# /etc/init.d/ipsgateway stop
```

4. Verify that the processes have been stopped. The processes that were running in Step 1 should no longer be displayed.

```
# /usr/bin/ps -eo pid,args|grep java
```

If any of the processes are still running, issue a `kill -TERM` *`process_id`* for each proxy process that is running under iPlanet Portal Server. For example:

```
# kill -TERM 481
```

Stopping the Third-Party Software Processes and the Channels

Before performing a clean installation of or upgrading to Service Pack 5, stop all iPlanet Portal Server third-party software and channels that push data to the iPlanet Portal Server product.

It is especially important to stop channels that push data to the iPlanet Portal Server product because some channels write into iPlanet Portal Server directories.

Consult the manuals for each channel and for third-party software for instructions on shutting them down.

Installed Software Modules, Customizations, and Third-Party Products

If iPlanet Portal Server software has been previously installed and other modules have been configured to run on top of this software, it is important to read all release notes and updates that pertain to the added modules. Patches and additional configuration steps may be required. Also, any customizations must be backed up or documented before Service Pack 5 is installed, so the customizations can be restored after the upgrade.

When Service Pack 5 is applied, it upgrades Java 1.2.2_05 or 1.2.2_07 to Java 1.2.2_16-er-20030716.

If the Java link (`/usr/java`) has been modified, Service Pack 5 overwrites the link to point to the new JVM™. For example, if `/usr/java` was linked to `Solaris_JDK_1.2.2_16-er-20030716` and the Rhino software was installed into `/usr/java/jre/lib/ext`, then the Rhino software would actually be in `/usr/Solaris_JDK_1.2.2_16-er-20030716/jre/lib/ext/js.jar` and would need to be moved or copied to `/usr/java/jre/lib/ext`. Otherwise, the contents of the link become inaccessible.

Saving the Certificates Used by the Server Component

If using certificates on the iPlanet Portal Server server component, save the certificates in a safe location before the upgrade process, and restore them after the upgrade is complete.

The following procedure assumes that `/opt` is the installation directory.

To save the certificates:

1. As root, change directories to the certificate directory. In the following example, `/opt` is the base directory.

```
# cd /opt/netscape/server4
```

2. Create a `tar` file of the `alias` directory and copy it to a safe location. In the following example the compressed alias directory is copied to `/usr/tmp`.

```
# tar cf /usr/tmp/alias.tar alias
```

For instructions on upgrading the iPlanet Portal Server product to Service Pack 5, see the "Upgrading to Service Pack 5" chapter.

For instructions on upgrading the iPlanet Portal Server product to Service Pack 5 if running a Non-Root installation, see the "User Non-Root" chapter.

For instructions on upgrading the iPlanet Portal Server product to Service Pack 5 if running as User Nobody, see the "User Nobody" chapter.

Upgrading to Service Pack 5

The Service Pack 5 installation script offers the choice of upgrading the existing version of the product or performing a clean installation of iPlanet Portal Server with Service Pack 5. Read this chapter if choosing the upgrade option that upgrades the iPlanet Portal Server product to Service Pack 5. For a clean install, see the "Clean Installation" chapter.

NOTE If iPlanet Portal Server software has been previously installed and other modules have been configured to run on top of this software, it is important to read all release notes and updates that pertain to the added modules. This is especially applicable to the Compass 3.01C Release Notes found on: `http://docs.iplanet.com`

Upgrading to Service Pack 5

When upgrading to iPlanet Portal Server Service Pack 5, perform the upgrade only on machines that have iPlanet Portal Server Service Pack 3 or greater installed. Upgrading from iPlanet Portal Server Service Pack 1 or Service Pack 2 to iPlanet Portal Server Service Pack 5 is not supported.

NOTE If this is an upgrade where the portal server runs as user `non-root`, or user nobody, go to the appropriate sections in this installation guide.

- User Non-Root
- User Nobody

Standard Upgrade

If the Samba software has been installed, this procedure removes it. The Samba software, along with other third-party software originally shipped with the iPlanet Portal Server product, is contained in a file called `ThirdParty.tar.gz` and can be downloaded from the `www.iplanet.com` website. See “Appendix B” in the original iPlanet Portal Server *Installation Guide 3.0* for instructions on installing the Samba software.

Service Pack 5 can be installed on localized versions of the iPlanet Portal Server product, but localized versions are not supported without installing updated localization files. To successfully upgrade to Service Pack 5 on a localized version of the iPlanet Portal Server:

1. Download the localization files that apply to your configured locale.

   Localization files can be downloaded from the iPlanet website.

   `http://www.sun.com/software/download/`

NOTE If the localization files are not yet available for download when upgrading to Service Pack 5, monitor the iPlanet website to see when they are available or contact iPlanet customer support.

2. Perform an upgrade to Service Pack 5.
3. Install the localization files that apply to your configured locale.

To upgrade the iPlanet Portal Server software:

1. Back up the entire machine on which the iPlanet Portal Server software resides, so that it can be restored if necessary.
2. Stop all services for the iPlanet Portal Server server and gateway.

NOTE See Stopping the Server Component Processes for information on how to correctly perform these functions.

Accessing the Install Script

1. As root, change directories to `/opt/ips_sp5`.

2. Run the `ipsinstall` script.

   The `ipsinstall` script must be run from the directory in which it exists.

```
# cd /opt/ips_sp5
# ./ipsinstall
```

   Theinstall script checks for hotpatches 1, 2 and 3 for Service Pack 3 or 3a and the Mobile Access Pack.

   If hotpatches 1 or 2 are installed, the following warning is displayed:

```
Patch111829-01 detected. Service pack 5 replaces some of the
content of this patch. Therefore, do not remove patch
111829-01 after upgrading to service pack 5.
Abort installation? [y]/n n
```

   Continue the upgrade. Go to step 3.

   If hotpatch 3 is installed, the following warning is displayed:

```
Patch 111829-03detected. Service pack 5 cannot
run on top of this patch. Please discontinue the install and
contact iPlanet Support.
Abort installation? [y]/n y
```

   Do NOT continue the upgrade. Contact iPlanet customer support for instructions to upgrade to Service Pack 5.

   The iPlanet Portal Server Service Pack 5 install script will now run. See the following example for the prompts required to install this software.

   The iPlanet Portal Server Service Pack 5 Install Script displays the Service Pack 5 license agreement.

   Enter **yes** to accept the license agreement and continue with the installation. If you enter **no**, the installation script exits.

```
************************************************************
iPlanet(TM) Portal Server (iPS) (3.0sp5 release)
************************************************************
Installation log at
/var/sadm/install/logs/ipsinstall.2406/install.log

This product will run without a license. However, you must either
purchase a Binary Code License from, or accept the terms of a
Binary Software Evaluation license with, Sun Microsystems, to
legally use this product.
Do you accept? yes/[no] yes
```

NOTE If the installation script detects missing Solaris patches, a warning message is displayed. See "Installing the Required Solaris Patches" for information on installing the necessary Solaris patches.

The installation script attempts to determine name and IP address information about the machine on which you are installing. If the machine on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the portal.

NOTE The primary Portal Server in this example is `server1`.

3. Accept the default values or enter the correct name and IP address information.

```
Inspecting system.
What is the iPS hostname of this machine? [server1]
What is the subdomain ("." for none)? []
What is the domain? [sesta.com]
What is the ip address of server1.sesta.com? [192.168.01.01]

Inspecting iPS components.
```

The script displays the task menu.

4. Enter **1** to upgrade an existing iPlanet Portal Server installation.

```
Options:
1) Continue upgrade
2) Continue as a clean install (current installation will be
removed)
3) Continue install (current installation will not be removed)
4) Remove current installation
5) Exit
Choice? [5] 1
```

- If any of the iPlanet Portal Server processes are still running, the installation script displays a warning message and process information. If the processes detected by the script are related to the iPlanet Portal Server, abort the upgrade, and stop the processes before proceeding. See Stopping the Server Component Processes and Stopping the Proxies and the Gateway Component's Processes for instructions.
- If any ports required by the iPlanet Portal Server product are temporarily in use, the installation script displays a warning message and port information. If other applications are running on the ports required by the iPlanet Portal Server product, exit the applications and wait for the ports to close before proceeding. The applications may need to be configured to use other ports.

The script displays the following status:

```
Reading current configuration.

Checking running status.

Pre-upgrade processing.

Installing server.
Installing SUNWwtsdd...
Installing SUNWwtws...
Installing SUNWwtsvd...
Installing SUNWwtdt...
Installing SUNWwtnm...
Installing SUNWwtnf...
Installing SUNWwtrw...
Installing SUNWwtdoc...
Installing SUNWwtsam...
Installing SUNWwtds...
Starting server.


Installing gateway.
Installing SUNWwtgwd...
```

```
Starting gateway.

Post-upgrade processing.



Upgrade complete.
Please look in /var/sadm/install/logs/ipsinstall.611
for saved certificates, attributes, properties and templates.
If you have made any customizations to iPS before this upgrade,
you may need to merge your changes back.
```

When the upgrade process is finished, your screen prompt is returned. Look at the file `/var/sadm/install/logs/ipsinstall.`*process.id*`/install.log` to verify that no errors in the upgrade have occurred.

If your previous iPlanet Portal Server installation was customized, see "Restoring Customizations" for more information.

Restoring Customizations

If you performed customizations on your previous iPlanet Portal Server installation, the installation script saves these customizations in `/var/sadm/install/logs/ipsinstall.`*process_id*. Generally, the same steps used for the initial customizations development can be used when reinstating your customizations into a Service Pack 5 installation. After restoring customizations, run the iPlanet Portal Server product to verify that your customizations work without errors. Certain customizations could be affected by changes in Service Pack 5.

TIP By using the `diff` command to compare pre-Service Pack 5 files that have been customized and the new Service Pack 5 files, changes can be viewed so that previous customizations can be reinstated.

See "After Installation" for information on restoring saved certificates.

Chapter 4

Clean Installation

The instructions for performing a clean installation of the iPlanet Portal Server Service Pack 5 server and gateway components can be either of the following:

- A new version of iPlanet Portal Server software can be installed on a server with no previous installation of iPlanet Portal Server software
- A previous version of iPlanet Portal Server software is already installed, but will be completely removed and replaced with the new version

If the Samba software has been installed, performing a clean installation in which the previous installation is removed also removes the Samba software. The Samba software, along with other third-party software originally shipped with the iPlanet Portal Server product, is contained in a file called `ThirdParty.tar.gz`, which can be downloaded from the `www.iplanet.com` website. See "Appendix B" in the original iPlanet Portal Server *3.0 Installation Guide* for instructions on installing the Samba software.

If the Rhino software has been installed, become root and use the following command to remove it.

```
# cd /usr/java/jre/lib/ext
# rm js.jar
```

Open-portal Installation Using a Single Machine

In open-portal mode, the gateway, which provides encryption services and URL rewriting, is not required. For more information, see the section "Open Portal Mode" in *Release Notes for iPlanet Portal Server 3.0:* Service Pack 5.

To install the server component on a single machine:

1. Back up the entire machine on which the iPlanet Portal Server software resides, so that it can be restored if necessary.
2. Stop all of the processes for the iPlanet Portal Server server and gateway.

NOTE See "Stopping the Server Component Processes" for information on how to correctly perform these functions.

NOTE The following instructions assume that the installation directory is `/opt`.

Accessing the Install Script

To access the install script, after download, do the following:

1. As root, change to the `/opt/ips_sp5` directory.
2. Run the `ipsinstall` script.

   The `ipsinstall` script must be run from the directory in which it exists.

```
# cd /opt/ips_sp5
# ./ipsinstall
```

The iPlanet Portal Server 3.0 Service Pack 5 install script will now run. See "The Service Pack 5 Install Script" for an example of the prompts during the install

The Service Pack 5 Install Script

1. The installation script displays the Service Pack 5 license agreement.

   Enter **yes** to accept the license agreement and continue with the installation. If you enter **no**, the installation script exits.

```
************************************************************
iPlanet(TM) Portal Server (iPS) (3.0sp5 release)
************************************************************
Installation log at
/var/sadm/install/logs/ipsinstall.28532/install.log

This product will run without a license. However, you must either
purchase a Binary Code License from, or accept the terms of a
Binary Software Evaluation license with, Sun Microsystems, to
legally use this product.
Do you accept? yes/[no] yes
```

NOTE If the installation script detects missing Solaris patches, a warning message is displayed. See "Installing the Required Solaris Patches" for information on installing the necessary Solaris patches.

The installation script attempts to determine name and IP address of the server on which you are installing. If the server on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the iPlanet Portal Server component that you intend to use for this installation.

2. Accept the default values or enter the correct name and IP address information.

```
Inspecting network.
What is the iPS hostname of this machine? [server1]
What is the subdomain name for server1 ("." for none)? []
What is the domain name for server1? [sesta.com]
What is the ip address of server1.sesta.com? [192.168.01.01]

Inspecting iPS components.
```

If necessary, the script installs or upgrades the JDK. It upgrades Java 1.2.2_05 or 1.2.2_07 to Java 1.2.2_16-er-20030716.

The script displays the task menu.

3. Choose **2** to perform a clean installation of the iPlanet Portal Server components.

   This menu is not displayed if the machine on which you are installing has no previous installation of the iPlanet Portal Server product.

```
Options:
1) Continue upgrade
2) Continue as a clean install (current installation will be removed)
3) Continue install (current installation will not be removed)
4) Remove current installation
5) Exit
Choice? [5] 2

Removing current installation.
```

4. The script displays the component menu.

   Choose **1** to install the server component.

```
Select which component to install:
1) iPlanet(TM) Portal Server
2) iPlanet(TM) Portal Server: Secure Remote Access Pack (Gateway)
3) Exit
Choice? [3] 1
```

5. Accept the default installation directory, or enter the installation target directory.

```
What directory to install in? [/opt]
```

6. Choose **y** for an open-portal installation.

```
Will this be an open portal install? y/[n]
```

7. Choose whether you want to use Secure Sockets Layer (SSL) for server to server communication. SSL provides encrypted communication to the server.- For information about using SSL with the iPlanet Portal Server product, see the iPlanet Portal Server *Administration Guide 3.0.*

```
Are the servers using SSL protocol? y/[n]
```

8. Choose **n** for a single server installation.

```
Is this a multiple server install? y/[n]
```

9. Accept the default primary server port number or enter an available port number.

```
The primary server will run on server1.sesta.com
On what port will the primary server run? [8080]
```

10. Press Return to accept the default for the role tree root, or enter another name.

```
What is the root of the profile role tree? [sesta.com]
```

NOTE The name of the role tree root does not have to be a DNS domain name; it can be any name you choose. See Chapter 1 of the iPlanet Portal Server *Administration Guide 3.0* for more information about the role tree.

11. Accept the default or enter the correct name for the root user.

```
What is the user for the profile role tree? [root]
```

12. Accept the default port number for the directory server, or enter an available port number.

```
On what port will the directory server run? [389]
```

13. Accept the default administrator port number or enter an available port number.

```
What is the administrator port for the web server? [8088]
```

The installation script prompts you to enter and verify a passphrase. This passphrase is not the root user's password. It is used internally for SSL communication to the server and for access to the iPlanet Webserver administration console.

NOTE This passphrase needs to be the same for each component.

14. Enter and verify the passphrase.

```
What is the passphrase (8 chars minimum) :
Re-enter passphrase :
```

The installation script displays the settings and asks if they are correct.

15. Answer **y** to install the server. The installation script installs the server packages.

```
Server settings
Installation Directory      : /opt
Server List                 : http://server1.sesta.com:8080
Profile Server              : http://server1.sesta.com:8080
Profile Role Tree Root      : sesta.com
Profile Role Tree User      : root
LDAP Port                   : 389
LDAP Admin Port             : 8900
Web Server Admin Port       : 8088
Start Server                : y
Are these settings correct? [y]/n
```

NOTE The name of the role tree root does not have to be a DNS domain name; it can be any name you choose. See Chapter 1 of the iPlanet Portal Server *Administration Guide 3.0* for more information about the role tree.

The installation script installs the following packages.

```
Installing server.
Installing SUNWwtsdd...
Installing SUNWwtws...
Installing SUNWwtsvd...
Installing SUNWwtdt...
Installing SUNWwtnm...
Installing SUNWwtnf...
Installing SUNWwtrw...
Installing SUNWwtdoc...
Installing SUNWwtsam...
Installing SUNWwtds...
```

After the installation process has been completed, the script automatically starts the server component.

For information on configuring multiple-instances of the iPlanet Portal Server product on a single server, see the section “Configuring Multiple Instances of iPlanet Portal Server” in *Release Notes for* iPlanet Portal Server*:* Service Pack 5.

Open-portal Installation Using Multiple Machines

In open-portal mode, the gateway, which provides encryption services and URL rewriting, is not required. For more information, see the section “Open Portal Mode” in *Release Notes for iPlanet Portal Server 3.0:* Service Pack 5.

NOTE	If installing the server component on multiple machines, designate only one machine as the primary server, and configure the other servers to reference that machine as the primary server.

To install the server component:

1. For each machine, back up the entire machine on which the iPlanet Portal Server software resides, so that it can be restored if necessary.
2. Stop all services for the iPlanet Portal Server server and gateway.

NOTE	See “Stopping the Server Component Processes” for information on how to correctly perform these functions.

Accessing the Install Script

To access the install script, after download, do the following:

1. As root, change directories to `/opt/ips_sp5`.
2. Run the `ipsinstall` script.

   The `ipsinstall` script must be run from the directory in which it exists.

```
# cd /opt/ips_sp5
# ./ipsinstall
```

The iPlanet Portal Server Service Pack 5 install script will now run. See “The Service Pack 5 Install Script” for an example of the prompts required to install this software.

The Service Pack 5 Install Script

1. The installation script displays the Service Pack 5 license agreement.

   Enter **yes** to accept the license agreement and continue with the installation. If you enter **no**, the installation script exits.

```
************************************************************
iPlanet(TM) Portal Server (iPS) (3.0sp5 release)
************************************************************
Installation log at
/var/sadm/install/logs/ipsinstall.28532/install.log

This product will run without a license. However, you must either
purchase a Binary Code License from, or accept the terms of a
Binary Software Evaluation license with, Sun Microsystems, to
legally use this product.
Do you accept? yes/[no] yes
```

NOTE If the installation script detects missing Solaris patches, a warning message is displayed. See "Installing the Required Solaris Patches" for information on installing the necessary Solaris patches.

   The installation script attempts to determine name and IP address of the server on which you are installing. If the server on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the iPlanet Portal Server component.

2. Accept the default values or enter the correct name and IP address information.

```
Inspecting network.
What is the iPS hostname of this machine? [server1]
What is the subdomain name for server1 ("." for none)? []
What is the domain name for server1? [sesta.com]
What is the ip address of server1.sesta.com? [192.168.01.01]

Inspecting iPS components.
```

If necessary, the script installs or upgrades the JDK.

The script displays the task menu.

3. Choose **2** to perform a fresh installation of the iPlanet Portal Server product.

   This menu is not displayed if the machine on which you are installing has no previous installation of the iPlanet Portal Server product.

```
Options:
1) Continue upgrade
2) Continue as a clean install (current installation will be removed)
3) Continue install (current installation will not be removed)
4) Remove current installation
5) Exit
Choice? [5] 2
```

The script displays the following component menu.

4. Choose **1** to install the server component.

```
Select which component to install:
1) iPlanet(TM) Portal Server
2) iPlanet(TM) Portal Server: Secure Remote Access Pack (Gateway)
3) Exit
Choice? [3] 1
```

5. Accept the default installation directory, or enter another directory in which to install.

```
What directory to install in? [/opt]
```

6. Choose **y** for an open-portal installation.

```
Will this be an open portal install? y/[n] y
```

7. Choose whether you want to use Secure Sockets Layer (SSL) to communicate with the server component. SSL provides encrypted communication to the server. For information about using SSL with the iPlanet Portal Server product, see the iPlanet Portal Server *Administration Guide 3.0*.

```
Are the servers using SSL protocol? y/[n]
```

8. Choose **y** for a multiple server installation.

```
Is this a multiple server install? y/[n] y
```

9. Choose whether you want the local computer to be the primary server.
   - Enter **y** to make the local computer the primary server. If you have not already installed the primary server on another computer, you can choose **y** to make the local computer the primary server. Go to Step 11.
   - Enter **n** if you have already installed the primary server on another computer or if you will install the primary server on another computer. Continue with Step 10.

```
Should the local machine be the primary server? [y]/n
```

NOTE If your Service Pack 5 environment includes servers installed on multiple machines, install the primary server on only one of the machines; configure all other server components to reference that machine as the primary server.

If the local machine is not the primary server, the installation script asks for information about the primary server.

10. Enter the primary server information. If the machine on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the iPlanet Portal Server component. Go to Step 12.

```
On what hostname will the primary server run? [MyServer] server1
What is the sub-domain name for server1("." for none)? []
What is the domain name for server1? [sesta.com]
On what port will server1 run? [8080]
What is the ip address of server1.sesta.com? [192.168.01.01]
```

If the local machine is the primary server, the installation script asks for the primary server port number.

11. Accept the default primary server port number or enter the correct number for the port.

```
The primary server will run on server1.sesta.com
On what port will the primary server run? [8080]
```

12. Press Return to accept the default for the role tree root, or enter another name.

```
What is the root of the profile role tree? [sesta.com]
```

NOTE The name of the role tree root does not have to be a DNS domain name; it can be any name you choose. See Chapter 1 of the iPlanet Portal Server *Administration Guide* 3.0 for more information about the role tree.

13. Accept the default root user name or enter the correct name for the root user.

```
What is the user for the profile role tree? [root]
```

14. Accept the default port number for the directory server or enter an available port number.

```
On what port will the directory server run? [389]
```

- If the local machine is not the primary server, go to Step 16.
- If the local machine is the primary server, the installation script asks you the following set of questions about the other servers that will be installed as part of the multiple server environment. Continue with Step 15.

15. Enter the server component information.

If the local computer is the primary server and you specified a multiple server installation, the script repeats the set of questions until you have specified information for all the desired servers. If the server on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the iPlanet Portal Server component.

The script repeats the set of questions, allowing you to enter name and IP address information for each server in a multiple server environment. Enter a "." after you have finished adding the information for all the servers.

```
On what hostname will the server run ("." when done)? [MyServer] server2
What is the sub-domain name for server2 ("." for none)? []
What is the domain name for server2? [sesta.com]
On what port will server2 run? [8080]
What is the ip address of server2.sesta.com? [192.168.01.02]
On what hostname will the next server run ("." when done)? [MyServer] .
```

Go to Step 17.

16. Accept the default server port number for the machine on which you are installing or enter an available port number.

```
On what port will the server run on this machine? [8080]
```

17. Accept the default web server administrator port number or enter the correct port number.

```
What is the administrator port for the web server? [8088]
```

The installation script prompts you to enter and verify a passphrase. This passphrase is not the root user's password. It is used internally for SSL communication to the server and for access to the iPlanet Webserver administration console.

NOTE This passphrase needs to be the same for each component.

18. Enter and verify the passphrase.

```
What is the passphrase (8 chars minimum) :
Re-enter passphrase :
```

The installation script displays the settings and asks if they are correct.

19. Answer **y** to install the server. The installation script installs the server packages.

```
Server settings
Installation Directory    : /opt
Server List               : http://server1.sesta.com:8080
                          : http://server2.sesta.com:8080
Profile Server            : http://server1.sesta.com:8080
Profile Role Tree Root    : sesta.com
Profile Role Tree User    : root
LDAP Port                 : 389
LDAP Admin Port           : 8900
Web Server Admin Port     : 8088
Start Server              : y
Are these settings correct? [y]/n
```

NOTE If you choose **n**, the script repeats the questions and gives you the opportunity to change the settings by repeating the installation questions.

The installation script installs the following packages. The package `SUNWwtds` is installed on only the primary server.

```
Installing server.
Installing SUNWwtsdd...
Installing SUNWwtws...
Installing SUNWwtsvd...
Installing SUNWwtdt...
Installing SUNWwtnm...
Installing SUNWwtnf...
Installing SUNWwtrw...
Installing SUNWwtdoc...
Installing SUNWwtsam...
Installing SUNWwtds...
```

After the installation process has been completed, the script automatically starts the server component. Repeat this procedure for each server component in a multiple-server environment.

For information on configuring multiple-instances of the iPlanet Portal Server product on a individual server machine, see the section "Configuring Multiple Instances of iPlanet Portal Server" in *Release Notes for* iPlanet Portal Server*:* Service Pack 5.

Secure Portal Installation Using a Single Server

In secure mode, the gateway, which provides encryption services and URL rewriting, is required. For instructions on installing the gateway component, see the "Gateway Component Installation" section.

NOTE	If installing a single server component, the machine on which you install must be the primary server.

To install the server component:

1. Back up the entire machine on which the iPlanet Portal Server software resides, so that it can be restored if necessary.
2. Stop all services for the iPlanet Portal Server server and gateway.

NOTE	See "Stopping the Server Component Processes" for information on how to correctly perform these functions.

Accessing the Install Script

1. As root, change directories to `/opt/ips_sp5`.
2. Run the `ipsinstall` script.

   The `ipsinstall` script must be run from the directory in which it exists.

```
# cd /opt/ips_sp5
# ./ipsinstall
```

The iPlanet Portal Server Service Pack 5 install script will now run. See "The Service Pack 5 Install Script" for an example of the prompts required to install this software.

The Service Pack 5 Install Script

1. The installation script displays the Service Pack 5 license agreement.

   Enter **yes** to accept the license agreement and continue with the installation. If you enter **no**, the installation script exits.

```
************************************************************
iPlanet(TM) Portal Server (iPS) (3.0sp5 release)
************************************************************
Installation log at
/var/sadm/install/logs/ipsinstall.28532/install.log

This product will run without a license. However, you must either
purchase a Binary Code License from, or accept the terms of a
Binary Software Evaluation license with, Sun Microsystems, to
legally use this product.
Do you accept? yes/[no] yes
```

NOTE If the installation script detects missing Solaris patches, a warning message is displayed. See "Installing the Required Solaris Patches" for information on installing the necessary Solaris patches.

   The installation script attempts to determine name and IP address information about the machine on which you are installing. If the machine on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the iPlanet Portal Server component.

2. Accept the default values or enter the correct name and IP address information.

```
Inspecting network.
What is the iPS hostname of this machine? [server1]
What is the subdomain name for server1 ("." for none)? []
What is the domain name for server1? [sesta.com]
What is the ip address of server1.sesta.com? [192.168.01.01]

Inspecting iPS components.
```

If necessary, the script installs or upgrades the JDK.

The script displays the task menu.

3. Choose **2** to perform a fresh installation of the iPlanet Portal Server component.

   This menu is not displayed if the machine on which you are installing has no previous installation of the iPlanet Portal Server product.

```
Options:
1) Continue upgrade
2) Continue as a clean install (current installation will be removed)
3) Continue install (current installation will not be removed)
4) Remove current installation
5) Exit
Choice? [5] 2
```

The script displays the component menu.

4. Choose **1** to install the server component.

```
Select which component to install:
1) iPlanet(TM) Portal Server
2) iPlanet(TM) Portal Server: Secure Remote Access Pack (Gateway)
3) Exit
Choice? [3] 1
```

5. Accept the default installation directory, or enter another directory in which to install.

```
What directory to install in? [/opt]
```

NOTE If installing the server and gateway components on the same machine, install both components in the same directory.

6. Enter **n** to perform a secure portal installation.

```
Will this be an open portal install? y/[n]
```

7. Choose whether you want to use Secure Sockets Layer (SSL) to communicate with the server component. SSL provides encrypted communication to the server. For information about using SSL with the iPlanet Portal Server product, see the iPlanet Portal Server *Administration Guide 3.0*.

```
Are the servers using SSL protocol? y/[n]
```

8. Enter **n** for a single server installation.

```
Is this a multiple server install? y/[n]
```

9. Accept the default primary server port or enter the correct number for the primary server port.

```
The primary server will run on server1.sesta.com
On what port will the primary server run? [8080]
```

10. Press Return to accept the default for the role tree root, or enter another name.

```
What is the root of the profile role tree? [sesta.com]
```

NOTE The name of the role tree root does not have to be a DNS domain name; it can be any name you choose. See Chapter 1 of the iPlanet Portal Server *Administration Guide 3.0* for more information about the role tree.

11. Accept the default root user or enter the correct name for the root user.

```
What is the user for the profile role tree? [root]
```

12. Accept the default port number for the directory server or enter an available number for the port.

```
On what port will the directory server run? [389]
```

13. Accept the default port number for the gateway component or enter the correct port number.

```
On what port will the gateways run? [443]
```

14. Choose whether the iPlanet Portal Server environment will use multiple gateways or a single gateway.

```
Is this a multiple gateway install? y/[n]
```

The installation script asks a set of questions about the gateway.

15. Enter the information for the gateway or gateways. If the machine on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the iPlanet Portal Server component.

```
On what hostname will the gateway run ("." when done)? [MyGateway]
gateway
What is the sub-domain name for gateway ("." for none)? []
What is the domain name for gateway? [sesta.com]
What is the ip address of gateway.sesta.com? [192.168.01.03]
```

NOTE If you chose a multiple gateway installation in Step 14, the script repeats the set of questions so you can enter host and domain information for each gateway. Enter a "." when you are finished entering the information for all the gateways.

16. Choose whether the gateway should use a web proxy.

```
Should the gateway(s) use a web proxy? y/[n]
```

- If you choose **n**, go to Step 18.
- If you choose **y**, the installation script asks the following set of questions about the web proxy. Continue with Step 17.

17. Enter the information for the web proxy.

```
On what hostname will the web proxy run? [gateway] proxy
What is the sub-domain name for proxy ("." for none)? []
What is the domain name for proxy? [sesta.com]
On what port will proxy run? [8080] web_proxy_port_number
What is the ip address of proxy.sesta.com? [192.168.01.04]
```

18. Accept the default administrator port for the web server or enter the correct port number.

```
What is the administrator port for the web server? [8088]
```

The installation script asks you to enter and verify a passphrase. This passphrase is not the root user's password. It is used internally for SSL communication to the server and for access to the iPlanet Webserver administration console.

NOTE This passphrase needs to be the same for each component.

19. Enter and verify the passphrase.

```
What is the passphrase (8 chars minimum) :
Re-enter passphrase :
```

20. Choose whether you want the script to start the server component after the installation is complete.

```
Start after installation completes? [y]/n
```

The installation script displays the settings and asks if they are correct.

21. Answer **y** to install the server. The installation script installs the server packages.

```
Server settings
Installation Directory    : /opt
Server List               : http://server1.sesta.com:8080
Gateway List              : gateway.sesta.com:443
Profile Server            : http://server1.sesta.com:8080
Profile Role Tree Root    : sesta.com
Profile Role Tree User    : root
LDAP Port                 : 389
LDAP Admin Port           : 8900
Web Server Admin Port     : 8088
Start Server              : n
Are these settings correct? [y]/n
```

NOTE If you choose **n**, the script repeats the questions and gives you the opportunity to change the settings by repeating the installation questions.

The installation script installs the following packages.

```
Installing server.
Installing SUNWwtsdd...
Installing SUNWwtws...
Installing SUNWwtsvd...
Installing SUNWwtdt...
Installing SUNWwtnm...
Installing SUNWwtnf...
Installing SUNWwtrw...
Installing SUNWwtdoc...
Installing SUNWwtsam...
Installing SUNWwtds...
```

When the installation is complete, the component menu is displayed.

22. Choose **3** to exit or **2** to install the gateway on the current machine. See "Gateway Component Installation" for complete instructions on installing the gateway component.

```
Select which component to install:
1) Server
2) Gateway
3) Exit
Choice? [3]
```

If you chose not to have the script start the server component, start the server by using the following command:

```
# /etc/init.d/ipsserver start
```

For information on configuring multiple-instances of the iPlanet Portal Server product on a single server machine, see the section “Configuring Multiple Instances of iPlanet Portal Server” in *Release Notes for* iPlanet Portal Server*:* Service Pack 5*.*

Secure Portal Installation Using Multiple Servers

In secure mode, the gateway, which provides encryption services and URL rewriting, is required. For instructions on installing the gateway component, see “Gateway Component Installation.”

NOTE	If installing the server component on multiple machines, designate only one machine as the primary server, and configure the other servers to reference that machine as the primary server.

To install the server component:

1. For each machine, back up the entire machine on which the iPlanet Portal Server software resides, so that it can be restored if necessary.
2. Stop all services for the iPlanet Portal Server server and gateway.

NOTE	See “Stopping the Server Component Processes” for information on how to correctly perform these functions.

Accessing the Install Script

1. As root, change directories to `/opt/ips_sp5`.
2. Run the `ipsinstall` script.

   The `ipsinstall` script must be run from the directory in which it exists.

```
# cd /opt/ips_sp5
# ./ipsinstall
```

The iPlanet Portal Server Service Pack 5 install script will now run. See "The Service Pack 5 Install Script" for an example of the prompts required to install this software.

The Service Pack 5 Install Script

The following examples are the install script prompts for this installation.

1. The installation script displays the Service Pack 5 license agreement.

   Enter **yes** to accept the license agreement and continue with the installation. If you enter **no**, the installation script exits.

```
************************************************************
iPlanet(TM) Portal Server (iPS) (3.0sp5 release)
************************************************************
Installation log at
/var/sadm/install/logs/ipsinstall.28532/install.log

This product will run without a license. However, you must either
purchase a Binary Code License from, or accept the terms of a
Binary Software Evaluation license with, Sun Microsystems, to
legally use this product.
Do you accept? yes/[no] yes
```

NOTE If the installation script detects missing Solaris patches, a warning message is displayed. See "Installing the Required Solaris Patches" for information on installing the necessary Solaris patches.

   The installation script attempts to determine name and IP address information about the machine on which you are installing. If the machine on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the iPlanet Portal Server component.

2. Accept the default values or enter the correct name and IP address information.

```
Inspecting network.
What is the iPS hostname of this machine? [server1]
What is the subdomain name for server1("." for none)? []
What is the domain name for server1? [sesta.com]
What is the ip address of server1.sesta.com? [192.168.01.01]

Inspecting iPS components.
```

If necessary, the script installs or upgrades the JDK.

The script displays the task menu.

3. Choose **2** to perform a fresh installation of the iPlanet Portal Server components.

   This menu is not displayed if the machine on which you are installing has no previous installation of the iPlanet Portal Server product.

```
Options:
1) Continue upgrade
2) Continue as a clean install (current installation will be removed)
3) Continue install (current installation will not be removed)
4) Remove current installation
5) Exit
Choice? [5] 2
```

The script displays the component menu.

4. Choose **1** to install the server component.

```
Select which component to install:
1) iPlanet(TM) Portal Server
2) iPlanet(TM) Portal Server: Secure Remote Access Pack (Gateway)
3) Exit
Choice? [3] 1
```

5. Accept the default installation directory, or enter another directory in which to install.

```
What directory to install in? [/opt]
```

NOTE If installing the server and gateway components on the same machine, install both components in the same directory.

6. Enter **n** to perform a secure portal installation.

```
Will this be an open portal install? y/[n]
```

7. Choose whether you want to use Secure Sockets Layer (SSL) to communicate with the server component. SSL provides encrypted communication to the server. For information about using SSL with the iPlanet Portal Server product, see the iPlanet Portal Server *Administration Guide 3.0* .

```
Are the servers using SSL protocol? y/[n]
```

8. Choose **y** for a multiple server installation.

```
Is this a multiple server install? y/[n] y
```

9. Choose whether you want the local computer to be the primary server.

```
Should the local machine be the primary server? [y]/n
```

NOTE If your Service Pack 5 environment includes servers installed on multiple machines, install the primary server on only one of the machines; configure all other server components to reference that machine as the primary server.

- Enter **y** to make the local computer the primary server. If you have not already installed the primary server on another computer, you can choose **y** to make the local computer the primary server. Go to Step 11.
- Enter **n** if you have already installed the primary server on another computer. Continue with Step 10.

If the local machine is not the primary server, the installation script asks for information about the primary server.

10. Enter the primary server information. If the machine on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the iPlanet Portal Server component.

```
On what hostname will the primary server run? [MyServer] server1
What is the sub-domain name for server1("." for none)? []
What is the domain name for server1? [sesta.com]
On what port will server1 run? [8080]
What is the ip address of server1.sesta.com? [192.168.01.01]
```

Go to Step 12.

11. Accept the default primary server port or enter an available number for the primary server port.

If the local machine is the primary server, the installation script asks the question:

```
The primary server will run on server1.sesta.com
On what port will the primary server run? [8080]
```

12. Press Return to accept the default for the role tree root, or enter another name.

```
What is the root of the profile role tree? [sesta.com]
```

NOTE The name of the role tree root does not have to be a DNS domain name; it can be any name you choose. See Chapter 1 of the iPlanet Portal Server *Administration Guide 3.0* for more information about the role tree.

13. Accept the default root user name or enter the correct name for the root user.

```
What is the user for the profile role tree? [root]
```

14. Accept the default directory server port number or enter an available number for the directory server port.

```
On what port will the directory server run? [389]
```

- If the local machine is *not* the primary server, go to Step 21.
- If the local machine is the primary server, the script asks the following questions about the server components in the Service Pack 5 installation environment. Continue with Step 15.

15. Enter the server component information for the server components.

```
On what hostname will the server run ("." when done)? [MyServer] server2
What is the sub-domain name for server2 ("." for none)? []
What is the domain name for server2? [sesta.com]
On what port server2 run? [8080]
What is the ip address of server2.sesta.com? [192.168.01.02]
On what hostname will the next server run ("." when done)? [MyServer] .
```

If the local computer is the primary server and you specified multiple server components, the script repeats the set of questions until you have specified information for all the desired server components. If the machine on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the iPlanet Portal Server component.

The script repeats the set of questions, allowing you to enter name and IP address information for each server component in a multiple server environment. Enter a "." after you have finished adding the information for all the server components.

16. Accept the default port number or enter the correct port number for the gateway or gateways.

```
On what port will the gateways run? [443]
```

17. Choose whether the iPlanet Portal Server environment will use multiple gateways or a single gateway.

```
Is this a multiple gateway install? y/[n]
```

18. Enter the information for the gateway or gateways.

The installation script asks the following set of questions about the gateway.

```
On what hostname will the gateway run ("." when done)? [MyGateway]
gateway
What is the sub-domain name for gateway ("." for none)? []
What is the domain name for gateway? [sesta.com]
What is the ip address of gateway.sesta.com? [192.168.01.03]
```

NOTE If you chose a multiple gateway installation in Step 17, the script repeats the set of questions so that host and domain information can be entered for each gateway. Enter a "." when you are finished entering the information for all the gateways.

19. Choose whether the gateway should use a web proxy.

```
Should the gateway(s) use a web proxy? y/[n]
```

- If you choose **n**, go to Step 22.
- If you choose **y**, the installation script asks the following set of questions about the web proxy. Continue with Step 20.

20. Enter the information for the web proxy. Go to Step 22.

```
On what hostname will the web proxy run? [gateway] proxy
What is the sub-domain name for proxy ("." for none)? []
What is the domain name for proxy? [sesta.com]
On what port will proxy run? [8080] web_proxy_port_number
What is the ip address of proxy.sesta.com? [192.168.01.04]
```

NOTE If you choose a web proxy name that is different from the name of the current machine, the script also asks for the IP address of the web proxy.

21. Accept the default server port number for the machine on which you are installing or enter an available port number.

```
On what port will the server run on this machine? [8080]
```

22. Accept the default administrator port for the web server or enter the correct port number.

```
What is the administrator port for the web server? [8088]
```

The installation script asks you to enter and verify a passphrase. This passphrase is not the root user's password. It is used internally for SSL communication to the server and for access to the iPlanet Webserver administration console.

NOTE This passphrase needs to be the same for each component.

23. Enter and verify the passphrase.

```
What is the passphrase (8 chars minimum) :
Re-enter passphrase :
```

24. Choose whether you want the script to start the server after the installation is complete.

```
Start after installation completes? [y]/n
```

The installation script displays the settings and asks if they are correct.

25. Answer **y** to install the server component. The installation script installs the server packages.

```
Server settings
Installation Directory    : /opt
Server List               : http://server1.sesta.com:8080
                          : http://server2.sesta.com:8080
Gateway List              : gateway.sesta.com:443
Profile Server            : http://server1.sesta.com:8080
Profile Role Tree Root    : sesta.com
Profile Role Tree User    : root
LDAP Port                 : 389
LDAP Admin Port           : 8900
Web Server Admin Port     : 8088
Start Server              : n
Are these settings correct? [y]/n
```

NOTE If you choose **n**, the script repeats the questions and gives you the opportunity to change the settings by repeating the installation questions.

The installation script installs the following packages. The package, `SUNWwtds`, is installed on only the primary server.

```
Installing server.
Installing SUNWwtsdd...
Installing SUNWwtws...
Installing SUNWwtsvd...
Installing SUNWwtdt...
Installing SUNWwtnm...
Installing SUNWwtnf...
Installing SUNWwtrw...
Installing SUNWwtdoc...
Installing SUNWwtsam...
Installing SUNWwtds...
```

When the installation is complete, the component menu is displayed.

26. Choose **3** to exit or **2** to install the gateway on the current machine. See "Gateway Component Installation" for complete instructions on installing the gateway component.

```
Select which component to install:
1) Server
2) Gateway
3) Exit
Choice? [3]
```

If you chose not to have the script start the server component, you can start the server component by using the following command:

```
# /etc/init.d/ipsserver start
```

Repeat this installation procedure on each server component in a multiple-server environment.

For information on configuring multiple-instances of the iPlanet Portal Server product on a single server machine, see the section “Configuring Multiple Instances of iPlanet Portal Server” in *Release Notes for* iPlanet Portal Server*:* Service Pack 5.

Gateway Component Installation

To install the gateway component:

1. Back up the entire machine on which the iPlanet Portal Server software resides, so that it can be restored if necessary.
2. Stop all services for the iPlanet Portal Server server and gateway.

NOTE See “Stopping the Server Component Processes” for information on how to correctly perform these functions.

Accessing the Install Script

1. As root, change directories to `/opt/ips_sp5`.

2. Run the `ipsinstall` script.

   The `ipsinstall` script must be run from the directory in which it exists.

```
# cd /opt/ips_sp5
# ./ipsinstall
```

The iPlanet Portal Server Service Pack 5 install script will now run. See "The Service Pack 5 Install Script" for an example of the prompts required to install this software.

The Service Pack 5 Install Script

The following examples are the install script prompts for this installation.

1. The installation script displays the Service Pack 5 license agreement.

   Enter **yes** to accept the license agreement and continue with the installation. If you enter **no**, the installation script exits.

```
************************************************************
iPlanet(TM) Portal Server (iPS) (3.0sp5 release)
************************************************************
Installation log at
/var/sadm/install/logs/ipsinstall.28532/install.log

This product will run without a license. However, you must either
purchase a Binary Code License from, or accept the terms of a
Binary Software Evaluation license with, Sun Microsystems, to
legally use this product.
Do you accept? yes/[no] yes
```

NOTE If the installation script detects missing Solaris patches, a warning message is displayed. See "Installing the Required Solaris Patches" for information on installing the necessary Solaris patches.

The installation script attempts to determine name and IP address information about the machine on which you are installing. If the machine on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the iPlanet Portal Server component.

2. Accept the default values or enter the correct name and IP address information.

```
Inspecting network.
What is the iPS hostname of this machine? [gateway]
What is the subdomain ("." for none)? []
What is the domain? [sesta.com]
What is the ip address of gateway.sesta.com? [192.168.01.03]

Inspecting iPS components.
```

If necessary, the script installs or upgrades the JDK.

The script displays the task menu.

3. Choose **2** to perform a fresh installation of the iPlanet Portal Server components.

This menu is not displayed if the machine on which you are installing has no previous installation of the iPlanet Portal Server product.

```
Options:
1) Continue upgrade
2) Continue as a clean install (current installation will be removed)
3) Continue install (current installation will not be removed)
4) Remove current installation
5) Exit
Choice? [5] 2
```

- Choose **2** if the Service Pack 5 server component is *not* already installed on the current machine.

- Choose **3** if the Service Pack 5 server component is already installed on the current machine.

The script displays the component menu.

4. Choose **2** to install the gateway component.

```
Select which component to install:
1) iPlanet(TM) Portal Server
2) iPlanet(TM) Portal Server: Secure Remote Access Pack (Gateway)
3) Exit
Choice? [3] 2
```

5. Specify whether the server component is using SSL. For information about using SSL with the iPlanet Portal Server product, see the iPlanet Portal Server *Administration Guide 3.0*.

```
Is the primary server using SSL protocol? y/[n]
```

6. Specify whether the local machine is the primary server.

```
Should the local machine be the primary server? [y]/n
```

- If you chose **y**, go to Step 8.
- If you chose **n**, the installation script asks the following questions about the primary server. Continue with Step 7.

7. Enter primary server information. If the machine on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the iPlanet Portal Server component. Go to Step 9.

```
On what hostname will the primary server run? [MyServer] server1
What is the sub-domain name for server1("." for none)? []
What is the domain name for server1? [sesta.com]
On what port will server1 run? [8080]
What is the ip address of server1.sesta.com? [192.168.01.01]
```

8. Accept the default primary server port number, or enter the number for the primary server port.

```
The primary server will run on server1.sesta.com
What is the port for the primary server? [8080]
```

9. Accept the default for the role tree root, or enter another name.

```
What is the root of the profile role tree? [sesta.com]
```

NOTE The name of the role tree root does not have to be a DNS domain name; it can be any name you choose. See Chapter 1 of the iPlanet Portal Server *Administration Guide 3.0* for more information about the role tree.

10. Accept the default root user name or enter another name for the root user.

```
What is the user for the profile role tree? [root]
```

11. Accept the default information for the gateway component or enter the correct gateway information.

```
On what hostname will the gateway run? [gateway]
What is the sub-domain name for gateway ("." for none)? []
What is the domain name for gateway? [sesta.com]
On what port will gateway run? [443]
```

12. Choose whether the gateway component has multiple network interfaces. If the machine on which the gateway is being installed has multiple network interfaces, the iPlanet Portal Server gateway component can be restricted to use only one interface.

```
Does this gateway have multiple network interfaces? y/[n]
```

- If you answer **n**, go to Step 15.
- If you answer **y**, continue with Step 13.

13. Choose whether to limit the use of the gateway component to one network interface.

```
Limit use to one network interface? y/[n]
```

- If you answer **n**, go to Step 15.
- If you answer **y**, continue with Step 14.

14. Accept the default IP address or enter the correct IP address for the network interface that the gateway component will use.

```
What is the ip address of that network interface? [192.168.01.03]
```

15. Choose whether you want the firewall software to be installed on the gateway component. Install the firewall only if the gateway component has more than one network interface.

If installing on Solaris 2.6 and Solaris 7, the installation script asks the question:

```
Install firewall? y/[n]
```

NOTE This question is omitted if installing on Solaris 8 because the firewall included with the iPlanet Portal Server product is not supported on Solaris 8.

The installation script asks you to enter and verify a passphrase. This passphrase is not the root user's password. It is used internally for SSL communication to the server and for access to the iPlanet Webserver administration console.

NOTE This passphrase needs to be the same for each component.

16. Enter and verify the passphrase.

```
What is the passphrase (8 chars minimum) :
Re-enter passphrase :
```

17. Choose whether you want the script to start the gateway after installation.

The installation script asks the question:

```
Start after installation completes? [y]/n
```

The installation script displays the settings and asks if they are correct.

18. If the settings are correct, answer **y** to install the gateway product. The installation script installs the gateway packages.

```
Gateway settings
InstallationDirectory      : /opt
Gateway                    : gateway.sesta.com:443
Gateway IP Address         : 192.168.01.03
Profile Server             : http://server1.sesta.com:8080
Profile Role Tree Root     : sesta.com
Profile Role Tree User     : root
```

```
Install Firewall            : n
Start Gateway               : n
Are these settings correct? [y]/n
```

NOTE If you choose **n**, the script repeats the questions and gives you the opportunity to change the settings by repeating the installation questions.

The installation script asks the following set of organization specific information for the self-signed certificate.

19. Enter the information for your organization.

```
Self-signed certificate for a SSL connection.
What is the name of your organization? [MyCompany] sesta
What is the name of your organizational unit? [MyDivision]
florizel
What is the name of your city or locality? [MyCity] santa clara
What is the name of your state or province? [MyState] california
What is the two-letter country code? [us]
```

If you chose not to have the script start the gateway component, you can start the gateway component by using the following command:

```
# /etc/init.d/ipsgateway start
```

Removing Service Pack 5 Software

The iPlanet™ Portal Server software can be removed in two ways.

- Using ipsinstall -r Command
- Using the Service Pack 5 Install Script

By running the install script, the server software and the gateway software are removed individually, providing the option of removing only one. Using `ipsinstall -r` removes both.

CAUTION Using `ipsinstall -r` removes everything related to the iPlanet Portal Server software including the certificcates.

Before Removing the iPlanet Portal Server Software

This procedure assumes that the Service Pack 5 files were downloaded to `/opt/ips_sp5`.

1. Back up the entire machine on which the iPlanet Portal Server software resides, so that it can be restored if necessary.
2. Stop all services for the iPlanet Portal Server server and gateway.

NOTE See "Stopping the Server Component Processes" for information on how to correctly perform these functions.

Using ipsinstall -r Command

1. As root, change directories to `/opt/ips_sp5`.
2. Issue the following command.

```
# ./ipsinstall -r
```

The script removes the server and the gateway software if they are on the same machine. If the portal uses multiple servers or a separate gateway machine, use the script on each machine to remove the software.

```
*****************************************************************
iPlanet(TM) Portal Server (iPS) (3.0sp5 release)
*****************************************************************

Installation log at /var/sadm/install/logs/ipsinstall.22739/install.log

Inspecting network.

Inspecting iPS components.

Removing gateway.

Removing server.
```

Accessing the Install Script

The `ipsinstall` script can be used to remove the iPlanet Portal Server Service Pack 5 software.

1. As root, change directories to `/opt/ips_sp5`.
2. Run the `ipsinstall` script.

   The `ipsinstall` script must be run from the directory in which it exists.

```
# cd /opt/ips_sp5
# ./ipsinstall
```

The iPlanet Portal Server Service Pack 5 install script will now run. See "Using the Service Pack 5 Install Script" for an example of the prompts required to remove this software.

Using the Service Pack 5 Install Script

In the following example, the install script prompts for software removal.

1. The installation script displays the Service Pack 5 license agreement.

   Enter **yes** to accept the license agreement and continue with the backout. If you enter **no**, the installation script exits.

```
************************************************************
iPlanet(TM) Portal Server (iPS) (3.0sp5 release)
************************************************************
Installation log at
/var/sadm/install/logs/ipsinstall.17169/install.log

This product will run without a license. However, you must either
purchase a Binary Code License from, or accept the terms of a
Binary Software Evaluation license with, Sun Microsystems, to
legally use this product.
Do you accept? yes/[no] yes
```

   The installation script attempts to determine name and IP address information about the machine on which you are installing. If the machine on which you are installing uses multiple IP addresses or multiple domains, verify that the IP address displayed by the script is the correct one for the iPlanet Portal Server component.

2. Accept the default values or enter the correct name and IP address information.

```
Inspecting network.
What is the iPS hostname of this machine? [server1]
What is the subdomain ("." for none)? []
What is the domain? [sesta.com]
What is the ip address of server1.sesta.com? [192.168.01.01]

Inspecting iPS components.
```

The script displays the task menu.

3. Enter **4** to remove the Service Pack 5 product.

```
Options:
1) Continue upgrade
2) Continue as a clean install (current installation will be removed)
3) Continue install (current installation will not be removed)
4) Remove current installation
5) Exit
Choice? [5] 4
```

4. Select which component to remove.

```
Select which component to remove:
1) Server
2) Gateway
3) Exit
Choice? [3] 1
```

The script asks you to verify your choice.

5. Choose **y** to remove the iPlanet Portal Server component.

   The script proceeds with the removal process. When the component is removed, the script returns you to the component menu.

6. Select which component to remove, or choose **3** to exit the script.

```
Select which component to remove:
1) Server
2) Gateway
3) Exit
Choice? [3] 3
```

Removing a Partial Installation

If the installation process gets interrupted and only some of the iPlanet Portal Server packages have been installed, the packages that were installed must be removed before attempting to reinstall or use the product.

To remove a partial installation:

1. As root, change directories to the Solaris package database directory.

```
# cd /var/sadm/pkg
```

2. List the iPlanet Portal Server software directories.

```
# ls -d SUNW*
```

3. Look for any of the following directories:

SUNWicgSA/	SUNWj2man/	SUNWwtdt/	SUNWwtnf/
SUNWicgSS/	SUNWj2rt/	SUNWwtfw/	SUNWwtnm/
SUNWj2dem/	SUNWwtdoc/	SUNWwtgw/	SUNWwtrw/
SUNWj2dev/	SUNWwtds/	SUNWwtgwd/	SUNWwtsam/
SUNWwtsd/	SUNWwtsvd/	SUNWwtsdd/	SUNWwtws/
SUNWwtsmb/	SUNWwtsv/		

4. Remove any packages that match the list above. For example:

```
# pkgrm SUNWicgSS
```

Some packages might not be completely installed and cannot be removed with the `pkgrm` command. Use the `rm` command to remove only partially installed packages. For example:

```
# rm -rf SUNWicgSS
```

5. Change directories to `/var/sadm/install/logs` and list the iPlanet Portal Server software directories.

```
# cd /var/sadm/install/logs
# ls
```

6. Look for any of the directories listed in Step 3.
7. Remove any directories that matched the list of iPlanet Portal Server software directories. For example:

```
# pkgrm SUNWicgSS
```

Some packages might not be completely installed and cannot be removed with the `pkgrm` command. Use the `rm` command to remove only partially installed packages. For example:

```
# rm -rf SUNWicgSS
```

Chapter 6

After Installation

Configuring Restart of the HTTP Proxy

In a terminal window, to automatically configure a restart of the http proxy whenever rebooting the system server, use the command line interface on the iPlanet™ Portal Server server to do the following:

NOTE If using more than one server, repeat these steps for each server.

As root, in a terminal window, do the following:

```
# cd /opt/SUNWips/bin
# cp ipshttpd /etc/rc3.d/K55ipshttpd
# cp ipshttpd /etc/rc3.d/S55ipshttpd
# chmod 500 /etc/rc3.d/K55ipshttpd
# chmod 500 /etc/rc3.d/S55ipshttpd
```

NOTE These commands *will* autostart the http proxy when the machine is rebooted.

These commands *will not* autostart the http proxy when iPlanet Portal Server is restarted using `ipsserver start`.

Setting the Environment Variable IPS_ROOT

Set the environment variable `IPS_ROOT` to the iPlanet Portal Server installation directory. The following example assumes that `/opt` is the installation directory. This is required for the `ldapUpdate` script to work properly.

```
# IPS_ROOT=/opt
# export IPS_ROOT
```

Restoring Saved Certificates

To restore server certificates after upgrading the iPlanet Portal Server:

1. As root, stop the iPlanet Portal Server server.

```
# /etc/init.d/ipsserver stop
```

2. Change directories to the directory in which the certificates are to be restored. In the following example, `/opt` is the base directory.

```
# cd /opt/netscape/server4
```

3. Un-tar the alias.tar file created before the upgrade process. See the "Saving the Certificates Used by the Server Component" section.

```
# /usr/bin/tar xvf /usr/tmp/alias.tar
```

4. Restart the iPlanet Portal Server server.

```
# /etc/init.d/ipsserver start
```

5. Open a browser window, and go to the iPlanet Web Server administration console. For example:

   ```
   http://server1.sesta.com:8088
   ```

6. Login as admin.

NOTE The password for the web server administration console is the same passphrase entered during the iPlanet Portal Server installation.

7. Select Manage.
8. Select Apply.
9. Select Load configuration files.
10. Select Preferences.
11. Select Encryption On / Off.
12. Select the On button.
13. Save the configuration.
14. In a terminal window, restart the iPlanet Portal Server server.

```
# /etc/init.d/ipsserver start
```

Installing Third-Party Software

Third-party software that was originally included as a separate CD with the iPlanet Portal Server product is available for download from the iPlanet website, `www.sun.com`. The iPlanet website contains a third-party download directory in which the third-party software file, `ThirdParty.tar.gz`, is located.

In addition to third-party software that was originally supported by the iPlanet Portal Server product, Service Pack 5 supports Rhino third-party software. Rhino is an Open Source Mozilla.org JavaScript implementation that allows the Netlet application to be run in browsers that have been configured to use Automatic Proxy Configuration (PAC) files. The automatic proxy configuration feature is supported in the Netscape Navigator and Internet Explorer browsers. For detailed information about automatic proxy configuration and PAC files, see the Netscape Developer's website `http://developer.netscape.com`.

NOTE The Samba software is removed by performing an upgrade to iPlanet Portal Server Service Pack 5 and by performing any task in which the current installation of the product is removed.

Downloading the Third-Party Software

The following instructions assume that the directory `/opt/ips_sp5` has been created as a download directory for Service Pack 5.

1. In a terminal window, log on as root.
2. Change directories to `/opt/ips_sp5` and create a directory called `ips_3p` in which to download the third-party tar file.

```
# cd /opt/ips_sp5
# mkdir ips_3p
```

3. Download the file `ThirdParty.tar.gz` into the directory created in Step 2.
4. Run the `gunzip` command to extract the `ThirdParty.tar` file.

```
# gunzip ThirdParty.tar.gz
```

5. Run the `tar` command to extract the contents of the `iPS3.0SP5-01.tar` file.

```
# /usr/bin/tar -xvf ThirdParty.tar
```

Using the Third-Party Install Script

To use the Netlet feature with a Web browser that is configured to use PAC files, the third-party software, Rhino, must be installed on the server component.

To allow remote users access to Microsoft Windows networks, you must install Samba server software on the server component(s).

The `install_3ps` installation script installs the Samba and the Rhino software. The other third-party products, GO-joe and pcANYWHERE are installed on machines other than the server component; refer to iPlanet Portal Server *Administration Guide 3.0* for installation instructions.

After downloading and untarring the third-party software to `/opt/ips_sp5/ips_3p`, use the following procedure to install the Samba and Rhino software. The script installs each product separately, so you can choose to install Rhino or Samba or both.

1. In a terminal window, log on as root. Change directories to the third-party download directory that you created and run the `install_3ps` script.

```
# cd /opt/ips_sp5/ips_3p
# ./install_3ps
```

2. Choose whether to install the Samba software.
   - If you choose yes, continue with Step 3.
   - If you choose no, the Samba software is not installed. Go to Step 4.

```
# Do you wish to install the 3rd Party Samba Package? yes/[no]yes
```

3. Read and accept the disclaimer to install the Samba software. Type **yes** to accept.

```
Beginning installation of third party Samba package...
Installation of third party Samba package complete.
```

   The Samba software is installed.

4. Choose whether to install the Rhino software.

- If you choose yes, continue with Step 5.
- If you choose no, the Rhino software is not installed, and the terminal prompt is returned.

```
Do you wish to install the 3rd Party Rhino Javascript Package ?
yes/[no] yes
```

5. Read and accept the terms of the Mozilla public license to install the Rhino software. Type **yes** to accept.

```
Do you agree to the terms and conditions set forth in the
preceding Mozilla Public License ? yes/[no] yes

3rd Party Rhino Javascript Package installed.
You must restart the server for this change to take effect.
```

6. Restart the server component.

In addition to using PAC files, Internet Explorer can also use an `.ins` automatic configuration file for automatic proxy services. For more information, see the section “Configuring Internet Explorer INS File” in *Release Notes for* iPlanet Portal Server Service Pack 5.

Removing Third-party Software

The Samba third-party software is removed when the iPlanet Portal Server software is removed. However, the Rhino software must be manually removed by removing the `js.jar` file located in `/usr/java/jre/lib/ext/`.

To remove the Rhino software, issue the following commands as root:

```
# cd /usr/java/jre/lib/ext/
# rm js.jar
```

Chapter 7

User Nobody

To configure user nobody on an iPlanet™ Portal Server server, in the following examples, the server and gateway are installed on the same system. If installing the gateway on a separate system, perform the same steps on that system.

Specifying nobody as the owner of the iPlanet Portal Server files is a special case, as nobody has an impossible resultant (encrypted) password. The user must be `root` to manipulate and execute files nobody owns.

When the iPlanet Portal Server server is to run as nobody, the server can be configured to listen on port 8080, the default web server port. The LDAP server can also run on the default port 389, and the gateway on the default SSL port 443.

NOTE The Netfile and Netfile Lite applications cannot use NFS protocol when running as *nobody*.

NOTE Authentication helpers must be run as root.

When the server component is started or restarted, it must be done as root.

If user nobody was installed in a previous version, and is being upgraded to Service Pack 5, see the "Upgrading User Nobody to Service Pack 5" section.

The following information is included in this procedure:

- Installation Examples
  - Installing iPlanet Portal Server 3.0 Server
  - Installing iPlanet Portal Server 3.0 Gateway

Installation Examples

When installing the iPlanet Portal Server server, select a non-default install. The following procedures are install examples for both the server and the gateway components.

Installing iPlanet Portal Server 3.0 Server

See the original iPlanet Portal Server *Installation Guide 3.0* for more information on installing the iPlanet Portal Server server component.

TIP Non-default entries are shown in bold text.

```
# ./ipsinstall
****************************************************************
iPlanet(TM) Portal Server (iPS) (3.0sp5 release)
****************************************************************

Installation log at
/var/sadm/install/logs/ipsinstall.18655/install.log

This product will run without a license. However, you must either
purchase a Binary Code License from, or accept the terms of a
Binary Software Evaluation license with, Sun Microsystems, to
legally use this product.
Do you accept? yes/[no] yes

Inspecting system.



Inspecting network.
What is the iPS hostname of this machine? [server1]
What is the subdomain ("." for none)? []
What is the domain? [sesta.com]
What is the ip address of server1.sesta.com? [192.168.01.01]
```

```
Inspecting iPS components.

Preparing to install.

Select which component to install:
1) iPlanet(TM) Portal Server
2) iPlanet(TM) Portal Server: Secure Remote Access Pack (Gateway)
3) Exit
Choice? [3] 1

What directory to install in? [/opt]

Will this be an open portal install? y/[n]

Are the servers using SSL protocol? y/[n]

Is this a multiple server install? y/[n]

The primary server will run on server1.sesta.com
On what port will the primary server run? [8080]

What is the root of the profile role tree? [sesta.com]
What is the user for the profile role tree? [root]
On what port will the directory server run? [389]


On what port will the gateways run? [443]

Is this a multiple gateway install? y/[n]
On what hostname will the gateway run? [MyGateway] server1
What is the sub-domain name for server1 ("." for none)? []
What is the domain name for server1? [sesta.com]

Should the gateway(s) use a web proxy? y/[n]

What is the administrator port for the web server? [8088]

A passphrase is needed to manage and install certificates on the
gateway
and the server, in the configuration of the web and LDAP servers
and to
allow secure communication between the gateways and servers. The
passphrase
must match between gateway and server installations.
What is the passphrase (8 chars minimum) :
Re-enter passphrase :

Start after installation completes? [y]/n

Server settings
Installation Directory : /opt
Server List            : http://server1.sesta.com:8080
Gateway List           : server1.sesta.com:443
Profile Server         : http://server1.sesta.com:8080
Profile Role Tree Root : sesta.com
```

```
Profile Role Tree User : root
LDAP Port              : 389
LDAP Admin Port        : 8900
Web Server Admin Port  : 8088
Start Server           : y
Are these settings correct? [y]/n

Installing server.
Installing SUNWwtsdd...
Installing SUNWwtws...
Installing SUNWwtsvd...
Installing SUNWwtdt...
Installing SUNWwtnm...
Installing SUNWwtnf...
Installing SUNWwtrw...
Installing SUNWwtdoc...
Installing SUNWwtsam...
Installing SUNWwtds...

Starting server.
```

Installing iPlanet Portal Server 3.0 Gateway

See the original iPlanet Portal Server *Installation Guide 3.0* for more information on installing the iPlanet Portal Server gateway.

TIP Non-default entries are shown in bold text.

```
Select which component to install:
1) iPlanet(TM) Portal Server
2) iPlanet(TM) Portal Server: Secure Remote Access Pack (Gateway)
3) Exit
Choice? [3] 2

Is the primary server using SSL protocol? y/[n]

Should the local machine be the primary server? [y]/n
The primary server will run on server1.sesta.com
What is the port for the primary server? [8080]

What is the root of the profile role tree? [sesta.com]
What is the user for the root of the profile role tree? [root]

On what hostname will the gateway run? [server1]
What is the sub-domain name for server1 ("." for none)? []
What is the domain name for server1? [sesta.com]
On what port will the gateway run? [443]
```

```
Does this gateway have multiple network interfaces? y/[n]

Install firewall? y/[n]

A passphrase is needed to manage and install certificates on the gateway
and the server, in the configuration of the web and LDAP servers and to
allow secure communication between the gateways and servers. The passphrase
must match between gateway and server installations.
What is the passphrase (8 chars minimum) :
Re-enter passphrase :

Start after installation completes? [y]/n

Gateway settings
Installation Directory              : /opt
Role Tree Root                      : sesta.com
Gateway                             : server1.sesta.com:443
Gateway IP Address                  : 192.168.01.03
Profile Server                      : http://server1.sesta.com:8080
Profile Role Tree Root              : sesta.com
Profile Role Tree User              : root
Install Firewall                    : n
Start Gateway                       : y
Are these settings correct? [y]/n

Self-signed certificate for a SSL connection.
What is the name of your organization? [MyCompany] sesta
What is the name of your organizational unit? [MyDivision] florizel
What is the name of your city or locality? [MyCity] santa clara
What is the name of your state or province? [MyState] california
What is the two-letter country code? [us]

Installing gateway.
Installing SUNWwtgwd...

Starting gateway.
```

Configuring User Nobody on the Server

Perform all steps as root, except as noted.

NOTE Install the Service Pack 5 server, gateway, and the third-party products before starting execution of the procedure described below. Failure to do this will result in having to redo some of the install steps.

See the “Clean Installation” chapter for more information on installing Service Pack 5.

After installing the iPlanet Portal Server software do the following:

1. As root, in a terminal window, do the following:

```
# chmod 666 /dev/random
```

2. Still as root, in a terminal window, change the owner:

```
# chown -R nobody:nobody /opt/netscape
# chown -R nobody:nobody /opt/SUNWips
# chown -R nobody:nobody /etc/opt/SUNWips
# chown -R nobody:nobody /var/opt/SUNWips
```

3. Stop all services for the iPlanet Portal Server server and gateway.

NOTE See "Stopping the Server Component Processes" for information on how to correctly perform these functions.

4. Edit the following file, to change the localuser to nobody, as shown in bold text:

   /opt/netscape/directory4/slapd-*servername*/config/slapd.conf

```
##########################################################################
# /opt/netscape/directory4/slapd-server1/config/slapd.conf
# Netscape Directory Server global configuration file
# Do not modify this file while ns-slapd is running
##########################################################################
instancedir     "/opt/netscape/directory4/slapd-server1"
errorlog        "/opt/netscape/directory4/slapd-server1/logs/errors"
errorlog-logging-enabled        on

plugin syntax on "Telephone Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so" tel_init

plugin matchingRule on "Internationalization Plugin"
"/opt/netscape/directory4/lib/liblcoll.so" orderingRule_init
"/opt/netscape/directory4/slapd-server1/config/slapd-collations.conf"

plugin syntax on "Integer Syntax"
```

```
"/opt/netscape/directory4/lib/syntax-plugin.so" int_init

plugin syntax on "Distinguished Name Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so" dn_init

plugin syntax on "Case Ignore String Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so" cis_init

plugin syntax on "Case Exact String Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so" ces_init

plugin syntax on "Binary Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so" bin_init
return_exact_case       on
include "/opt/netscape/directory4/slapd-server1/config/slapd.at.conf"
include "/opt/netscape/directory4/slapd-server1/config/slapd.oc.conf"
include "/opt/netscape/directory4/slapd-server1/config/ns-schema.conf"
readonly        off
timelimit       3600
sizelimit       2000
lastmod on
idletimeout     0
ntsynch off
ntsynch-port    5009
ntsynchusessl   on
port    389
secure-port     636
maxdescriptors  1024
schemacheck     off
enquote_sup_oc  on
security        off
localuser       nobody
userat  "/opt/netscape/directory4/slapd-server1/config/slapd.user_at.conf"
useroc  "/opt/netscape/directory4/slapd-server1/config/slapd.user_oc.conf"
accesslog       "/opt/netscape/directory4/slapd-server1/logs/access"
```

5. Edit the following files to change the User to nobody, as shown in bold text:

   `/opt/netscape/server4/https-`*`servername`*`/config/magnus.conf`

   `/opt/netscape/server4/https-admserv/config/magnus.conf`

```
ServerID https-server1.sesta.com
ServerName server1.sesta.com
Port 8080
LoadObjects obj.conf
RootObject default
ErrorLog /opt/netscape/server4/https-server1.sesta.com/logs/errors
PidLog /opt/netscape/server4/https-server1.sesta.com/logs/pid
User nobody
MtaHost localhost
```

```
DNS off
Security on
Ciphers +rc4,+rc4export,+rc2,+rc2export,+des,+desede3
SSL3Ciphers
+rsa_rc4_128_md5,+rsa_3des_sha,+rsa_des_sha,+rsa_rc4_40_md5,+rsa_rc2
_40_md5,-rsa_null_md5,+rsa_des_56_sha,+rsa_rc4_56_sha
ACLFile /opt/netscape/server4/httpacl/generated.https-server1.sesta.com.acl
ClientLanguage en
AdminLanguage en
DefaultLanguage en
AcceptLanguage off
RqThrottle 1024
StackSize 131072
CGIWaitPid on
CGIWaitPid on
```

6. If the LDAP Server process is also to run as a user other than *root*, edit the following file to change the `configuration.nsSuiteSpotUser` to nobody, as shown in bold text:

   `/opt/netscape/directory4/admin-serv/config/local.conf`

```
nsServerID: admin-serv
userPassword: {SHA}/mZi7HWjvvYwFqgGkIRTOg79/Cc=
serverRoot: /opt/netscape/directory4
serverProductName: Administration Server
serverHostName: server1.sesta.com
uniqueMember: cn=admin-serv-server1, cn=Netscape Administration Server,
cn=Server
 Group, cn=server1.sesta.com, ou=sesta.com, o=NetscapeRoot
installationTimeStamp: 20000914220659Z
configuration.nsServerPort: 8900
configuration.nsSuiteSpotUser: nobody
configuration.nsServerAddress: 192.168.178.52
configuration.nsAdminEnableEnduser: on
configuration.nsAdminEnableDSGW: on
configuration.nsDirectoryInfoRef: cn=Server Group, cn=server1.sesta.com, ou
=sesta.com, o=NetscapeRoot
configuration.nsAdminUsers: admin-serv/config/admpw
configuration.nsErrorLog: admin-serv/logs/error
configuration.nsPidLog: admin-serv/logs/pid
configuration.nsAccessLog: admin-serv/logs/access
configuration.nsAdminCacheLifetime: 600
configuration.nsAdminAccessHosts: *.sesta.com
configuration.nsAdminAccessAddresses: 192.168.178.52
configuration.nsAdminOneACLDir: adminacl
configuration.nsDefaultAcceptLanguage: en
```

```
nsServerID: admin-serv
configuration.nsClassname:
com.netscape.management.admserv.AdminServer@admserv42
.jar@cn=admin-serv-server1, cn=Netscape Administration Server, cn=Server
Group, cn=server1.sesta.com, ou=sesta.com, o=NetscapeRoot
```

7. To set the http and netlet proxies on the server to run as nobody, edit the `/etc/opt/SUNWips/platform.conf` file, as shown in bold text:
   - **`ips.httpproxy.user=nobody`**
   - **`ips.netletproxy.user=nobody`**

NOTE Instructions for configuring the Netlet Proxy are found in the *Release Notes for the iPlanet Portal Server*.

Instructions for "Configuring Restart of the HTTP Proxy" are found in this document.

```
# Copyright 03/22/03 Sun Microsystems, Inc. All Rights Reserved.
# "@(#)platform.conf    1.29 03/03/22 Sun Microsystems"
#

ips.defaultDomain=sesta.com
ips.server.protocol=http
ips.server.host=server1.sesta.com
ips.server.port=8080
ips.profile.host=server1.sesta.com
ips.gateway.protocol=https
ips.gateway.host=server1.sesta.com
ips.gateway.port=443
ips.virtualhost=server1.sesta.com 192.168.01.01
ips.naming.url=http://server1.sesta.com:8080/namingservice
ips.notification.url=http://server1.sesta.com:8080/notificationservice
ips.daemons=securid radius safeword unix skey
securidHelper.port=8943
radiusHelper.port=8944
safewordHelper.port=8945
unixHelper.port=8946
skeyHelper.port=8947


ips.httpproxy.user=nobody
ips.netletproxy.user=nobody

ips.cookie.name=iPlanetPortalServer
```

```
ips.locale=en_US
ips.debug=error
ips.version=3.0
ips.basedir=/opt
ips.logdelimiter=&&
```

8. Start the iPlanet Portal Proxy server. From a terminal window, as root, do the following:

```
# /opt/SUNWips/bin/ipshttpd stop
# /opt/SUNWips/bin/ipsnetletd stop
# /opt/SUNWips/bin/ipshttpd start
# /opt/SUNWips/bin/ipsnetletd start
```

Configuring User Nobody on the Gateway

The following steps are for configuring user nobody on the gateway, when the gateway is not installed on the same system as the server.

NOTE Install the Service Pack 5 server, gateway, and the third-party products before starting execution of the procedure described below. Failure to do this will result in having to redo some of the install steps.

NOTE When the gateway component is started or restarted, it must be done as root.

See the “Clean Installation” chapter for more information on installing Service Pack 5.

After installing the iPlanet Portal Server software do the following on the gateway:

1. As root, in a terminal window, do the following:

```
# chmod 666 /dev/random
# chown -R nobody:nobody /etc/opt/SUNWips
# chown -R nobody:nobody /var/opt/SUNWips
# chown -R nobody:nobody /opt/SUNWips
```

2. Edit the `/etc/opt/SUNWips/platform.conf` file, as shown in bold text:

`ips.gateway.user=nobody`

```
# Copyright 03/22/03 Sun Microsystems, Inc. All Rights Reserved.
# "@(#)platform.conf    1.29 03/03/22 Sun Microsystems"
#

ips.defaultDomain=sesta.com
ips.server.protocol=http
ips.server.host=server1.sesta.com
ips.server.port=8080
ips.profile.host=server1.sesta.com
ips.gateway.protocol=https
ips.gateway.host=server1.sesta.com
ips.gateway.port=443
ips.virtualhost=server1.sesta.com 192.168.01.01
ips.naming.url=http://server1.sesta.com:8080/namingservice
ips.notification.url=http://server1.sesta.com:8080/notificationservice
ips.daemons=securid radius safeword unix skey
securidHelper.port=8943
radiusHelper.port=8944
safewordHelper.port=8945
unixHelper.port=8946
skeyHelper.port=8947


ips.gateway.user=nobody

ips.cookie.name=iPlanetPortalServer
ips.locale=en_US
ips.debug=error
ips.version=3.0
ips.basedir=/opt
ips.logdelimiter=&&
```

When the gateway is configured as user nobody, do the following to workaround an invalid session condition when the gateway does a restart:

```
# chmod 4555 /etc/init.d/ipsgateway
```

Special Case Configurations

When the iPlanet Portal Server server and gateway are installed on the same system, both the server and gateway must be configured to run as user nobody.

CAUTION If you have configured a system to run as user nobody, then later add other packages with the installer, check the ownership of the Portal Server directories to make sure it is still user nobody.

Upgrading User Nobody to Service Pack 5

To upgrade an installation using user nobody from a previous version of the iPlanet Portal Server product to Service Pack 5 requires that all the user names be reset to root for the upgrade to work. Once Service Pack 5 has been installed the user will have to re-configure the server and gateway to run as nobody. Failure to do all these steps may result in loss of data.

The following list is a brief summary of the steps required to upgrade to Service Pack 5:

1. Stop all services for the iPlanet Portal Server server and gateway.

NOTE See "Stopping the Server Component Processes" for information on how to correctly perform these functions.

2. If the gateway is installed and running as nobody, do the following:

   Edit the gateway `/etc/opt/SUNWips/platform.conf` file, as shown in bold text:

   Remove **`ips.gateway.user=nobody`**

```
# Copyright 03/22/03 Sun Microsystems, Inc. All Rights Reserved.
# "@(#)platform.conf    1.29 03/03/22 Sun Microsystems"
#
```

```
ips.defaultDomain=sesta.com
ips.server.protocol=http
ips.server.host=server1.sesta.com
ips.server.port=8080
ips.profile.host=server1.sesta.com
ips.gateway.protocol=https
ips.gateway.host=server1.sesta.com
ips.gateway.port=443
ips.virtualhost=server1.sesta.com 192.168.01.01
ips.naming.url=http://server1.sesta.com:8080/namingservice
ips.notification.url=http://server1.sesta.com:8080/notificationservice
ips.daemons=securid radius safeword unix skey
securidHelper.port=8943
radiusHelper.port=8944
safewordHelper.port=8945
unixHelper.port=8946
skeyHelper.port=8947


ips.gateway.user=nobody

ips.cookie.name=iPlanetPortalServer
ips.locale=en_US
ips.debug=error
ips.version=3.0
ips.basedir=/opt
ips.logdelimiter=&&
```

3. Edit the following file to change the `configuration.nsSuiteSpotUser` to root, as shown in bold text:

   `/opt/netscape/directory4/admin-serv/config/local.conf`

```
nsServerID: admin-serv
userPassword: {SHA}/mZi7HWjvvYwFqgGkIRTOg79/Cc=
serverRoot: /opt/netscape/directory4
serverProductName: Administration Server
serverHostName: server1.sesta.com
uniqueMember: cn=admin-serv-server1, cn=Netscape Administration Server,
cn=Server
 Group, cn=server1.sesta.com, ou=sesta.com, o=NetscapeRoot
installationTimeStamp: 20000914220659Z
configuration.nsServerPort: 8900
configuration.nsSuiteSpotUser: root
configuration.nsServerAddress: 192.168.178.52
configuration.nsAdminEnableEnduser: on
configuration.nsAdminEnableDSGW: on
```

4. In a terminal window:

```
# chown -R root:root /etc/opt/SUNWips
# chown -R root:root /var/opt/SUNWips
# chown -R root:root /opt/netscape
# chown -R root:root /opt/SUNWips
```

5. Edit the following files:

   /opt/netscape/server4/http-*servername*/config/magnus.conf

   /opt/netscape/server4/https-admserv/config/magnus.conf

   Change the user nobody to the name of the user root, as shown in bold text.

```
ServerID https-server1.sesta.com
ServerName server1.sesta.com
Port 8080
LoadObjects obj.conf
RootObject default
ErrorLog /opt/netscape/server4/https-server1.sesta.com/logs/errors
PidLog /opt/netscape/server4/https-server1.sesta.com/logs/pid
User root
MtaHost localhost
DNS off
Security off
```

6. Edit the following files to change the localuser to root, as shown in bold text:

   /opt/netscape/directory4/slapd-*servername*/config/slapd.conf

```
return_exact_case       on
include "/opt/netscape/directory4/slapd-server1/config/slapd.at.conf"
include "/opt/netscape/directory4/slapd-server1/config/slapd.oc.conf"
include "/opt/netscape/directory4/slapd-server1/config/ns-schema.conf"
readonly        off
timelimit       3600
sizelimit       2000
lastmod on
idletimeout     0
ntsynch off
ntsynch-port    5009
ntsynchusessl   on
port    389
```

```
secure-port     636
maxdescriptors  1024
schemacheck     off
enquote_sup_oc  on
security        off
localuser       root
userat  "/opt/netscape/directory4/slapd-server1/config/slapd.user_at.conf"
useroc  "/opt/netscape/directory4/slapd-server1/config/slapd.user_oc.conf"
accesslog       "/opt/netscape/directory4/slapd-server1/logs/access"
```

7. Install the Service Pack 5 upgrade. See "Upgrading to Service Pack 5" for the iPlanet Portal Server.
8. Reconfigure both the server and gateway to run as nobody. See the "Configuring User Nobody on the Server" and "Configuring User Nobody on the Gateway" sections.
9. Restore all backed up data, create all server instances, and all special configurations.

Chapter 8

User Non-Root

This procedure configures User Non-Root on an iPlanet™ Portal Server server. For the examples shown, the server and gateway are installed on the same system. If installing the gateway on a separate system, perform the same steps on the gateway computer, where appropriate. If User Non-Root was installed in a previous iPlanet Portal Server version, and is being upgraded to Service Pack 5, see the "Upgrading User Non-Root to Service Pack 5" section.

NOTE A root-started gateway can run with a non-root user started server.

NOTE Authentication helpers must be run as root.

The following information is included in this procedure:

- Installation Examples
  - Installing the iPlanet Portal Server 3.0 Server
  - Installing the iPlanet Portal Server 3.0 Gateway
- Configuring User Non-Root on the Server
- Configuring User Non-Root on the Gateway
- Special Case Configurations
- Upgrading User Non-Root to Service Pack 5
- Non-Root User Error Messages
  - Server Error Messages

- Gateway Error Messages

Installation Examples

When installing the iPlanet Portal Server server to run as non-root, select non-default installation values.

If specifying a non-root userid, enter an unused port number above 1024 for the directory server (default is 389); these examples use port 8389, as all the other iPlanet Portal Server ports are in the 8000's. If a root password is not being implemented, change the super administrator's *userid* from the default *root*. If configuring the gateway to run as non-root, specify a different port.

These examples use port 8443 for the gateway, instead of the default 443. Select a non-default install for the gateway when planning to run with a non-root userid.

A sample server and gateway install sessions appears below.

NOTE In the following instructions and examples, `/opt` is the default installation directory.

Installing the iPlanet Portal Server 3.0 Server

See the original iPlanet Portal Server *Installation Guide 3.0* for more information on installing the iPlanet Portal Server server software.

TIP Non-default entries are shown in bold text.

```
# ./ipsinstall
****************************************************************
iPlanet(TM) Portal Server (iPS) (3.0sp5 release)
****************************************************************

Installation log at
/var/sadm/install/logs/ipsinstall.18655/install.log

This product will run without a license. However, you must either
purchase a Binary Code License from, or accept the terms of a
Binary Software Evaluation license with, Sun Microsystems, to
legally use this product.
```

```
Do you accept? yes/[no] yes

Inspecting system.

Inspecting network.
What is the iPS hostname of this machine? [server1]
What is the subdomain ("." for none)? []
What is the domain? [sesta.com]
What is the ip address of server1.sesta.com? [192.168.01.01]

Inspecting iPS components.

Options:
1) Continue upgrade
2) Continue as a clean install (current installation will be
removed)
3) Continue install (current installation will not be removed)
4) Remove current installation
5) Exit
Choice? [5] 2

Select which component to install:
1) iPlanet(TM) Portal Server
2) iPlanet(TM) Portal Server: Secure Remote Access Pack (Gateway)
3) Exit
Choice? [3] 1

What directory to install in? [/opt]

Are the servers using SSL protocol? y/[n]

Is this a multiple server install? y/[n]

The primary server will run on server1.sesta.com
On what port will the primary server run? [8080]
What is the root of the primary role tree? [sesta.com]
What is the user for the root of the role tree? [root]
The directory server will run on server1.sesta.com
On what port will the directory server run? [389] 8389


On what port will the gateways run? [443] 8443

Is this a multiple gateway install? y/[n]
On what hostname will the gateway run? [MyGateway] server1
What is the sub-domain name for server1 ("." for none)? []
What is the domain name for server1? [sesta.com]

Should the gateway(s) use a web proxy? y/[n]

What is the administrator port for the web server? [8088]

A passphrase is needed to manage and install certificates on the
gateway and the server, in the configuration of the web and
LDAP servers and to allow secure communication between the
gateways and servers. The passphrase
```

```
must match between gateway and server installations.
What is the passphrase (8 chars minimum) :
Re-enter passphrase :

Start after installation completes? [y]/n

Server settings
Installation Directory : /opt
Server List            : http://server1.sesta.com:8080
Gateway List           : server1.sesta.com:8443
Profile Server         : http://server1.sesta.com:8080
Profile Role Tree Root : sesta.com
Profile Role Tree User : root
LDAP Port              : 8389
LDAP Admin Port        : 8900
Web Server Admin Port  : 8088
Start Server           : y
Are these settings correct? [y]/n

Installing server.
Installing SUNWwtsdd...
Installing SUNWwtws...
Installing SUNWwtsvd...
Installing SUNWwtdt...
Installing SUNWwtnm...
Installing SUNWwtnf...
Installing SUNWwtrw...
Installing SUNWwtdoc...
Installing SUNWwtsam...
Installing SUNWwtds...

Starting server.
```

Installing the iPlanet Portal Server 3.0 Gateway

See the original iPlanet Portal Server *Installation Guide 3.0* for more information on installing the iPlanet Portal Server gateway software.

TIP Non-default entries are shown in bold text.

```
Select which component to install:
1) iPlanet(TM) Portal Server
2) iPlanet(TM) Portal Server: Secure Remote Access Pack (Gateway)
3) Exit
Choice? [3] 2

Is the primary server using SSL protocol? y/[n]
```

```
Should the local machine be the primary server? [y]/n
The primary server will run on server1.sesta.com
What is the port for the primary server? [8080]

What is the root of the role tree? [sesta.com]
What is the user for the root of the role tree? [root]

On what hostname will the gateway run? [server1]
What is the sub-domain name for server1 ("." for none)? []
What is the domain name for server1? [sesta.com]
On what port will the gateway run? [443] 8443

Does this gateway have multiple network interfaces? y/[n]

Install firewall? y/[n]

What is the passphrase (8 chars minimum) :
Re-enter passphrase :

Start after installation completes? [y]/n

Gateway settings
Installation Directory              : /opt
Gateway                             : server1.sesta.com:8443
Gateway IP Address                  : 192.168.01.03
Profile Server                      : http://server1.sesta.com:8080
Profile Role Tree Root              : sesta.com
Profile Role Tree User              : root
Install Firewall                    : n
Start Gateway                       : y
Are these settings correct? [y]/n

Self-signed certificate for a SSL connection.
What is the name of your organization? [MyCompany] sesta
What is the name of your organizational unit? [MyDivision] florizel
What is the name of your city or locality? [MyCity] santa clara
What is the name of your state or province? [MyState] california
What is the two-letter country code? [us]

Installing gateway.
Installing SUNWwtgwd...

Starting gateway.
```

Configuring User Non-Root on the Server

Perform all steps as root, except as noted.

NOTE Install the Service Pack 5 server, gateway, and the third-party products before starting execution of the procedure described below. Failure to do this will result in having to redo some of the install steps.

CAUTION Stop all the services before doing the following changes to configure user non-root. Failure to do this will result in problems restarting the server.

See the "Clean Installation" for more information on installing Service Pack 5.

After installing the iPlanet Portal Server software do the following:

1. As root, in a terminal window:

```
# chmod 666 /dev/random
```

NOTE In the following examples for non-root user, substitute *userid* for the *qualified name* of a user. Must be a valid *userid* on the iPlanet Portal Server component.

2. As root, in a terminal window, do the following:

   The `userid` is the name of the user, and `MyGroupid` is the name of the group the user belongs to. For example, if the user, *Jim*, belongs to the *staff* group, then it would be written as:

   ```
   chown -R Jim:staff /opt/netscape
   ```

```
# chown -R Userid:MyGroupid /opt/netscape
# chown -R Userid:MyGroupid /opt/SUNWips
# chown -R Userid:MyGroupid /etc/opt/SUNWips
# chown -R Userid:MyGroupid /var/opt/SUNWips
```

3. Edit the following file, to change the `localuser` to user login name (`Userid`), as shown in bold text:

   `/opt/netscape/directory4/slapd-`*`servername`*`/config/slapd.conf`

```
##########################################################################
# /opt/netscape/directory4/slapd-server1/config/slapd.conf
# Netscape Directory Server global configuration file
# Do not modify this file while ns-slapd is running
##########################################################################
instancedir     "/opt/netscape/directory4/slapd-server1"
errorlog        "/opt/netscape/directory4/slapd-server1/logs/errors"
errorlog-logging-enabled        on
plugin syntax on "Telephone Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.
so" tel_init
plugin matchingRule on "Internationalization Plugin"
"/opt/netscape/directory4/l
ib/liblcoll.so" orderingRule_init
"/opt/netscape/directory4/slapd-server1/config
/slapd-collations.conf"
plugin syntax on "Integer Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so
" int_init
plugin syntax on "Distinguished Name Syntax"
"/opt/netscape/directory4/lib/synta
x-plugin.so" dn_init
plugin syntax on "Case Ignore String Syntax"
"/opt/netscape/directory4/lib/synta
x-plugin.so" cis_init
plugin syntax on "Case Exact String Syntax"
"/opt/netscape/directory4/lib/syntax
-plugin.so" ces_init
plugin syntax on "Binary Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so"
 bin_init
return_exact_case       on
include "/opt/netscape/directory4/slapd-server1/config/slapd.at.conf"
include "/opt/netscape/directory4/slapd-server1/config/slapd.oc.conf"
include "/opt/netscape/directory4/slapd-server1/config/ns-schema.conf"
readonly        off
timelimit       3600
sizelimit       2000
lastmod on
idletimeout     0
ntsynch off
ntsynch-port    5009
ntsynchusessl   on
port    8389
secure-port     636
maxdescriptors  1024
schemacheck     off
enquote_sup_oc  on
security        off
```

```
localuser       Userid
userat  "/opt/netscape/directory4/slapd-server1/config/slapd.user_at.conf"
useroc  "/opt/netscape/directory4/slapd-server1/config/slapd.user_oc.conf"
accesslog       "/opt/netscape/directory4/slapd-server1/logs/access"
```

4. Edit the following files, to change the `User` to user login name (`Userid`), as shown in bold text:

   `/opt/netscape/server4/https-`*servername*`/config/magnus.conf`

   `/opt/netscape/server4/https-admserv/config/magnus.conf`

```
#ServerRoot /opt/netscape/server4/https-server1.sesta.com
ServerID https-server1.sesta.com
ServerName server1.sesta.com
Port 8080
LoadObjects obj.conf
RootObject default
ErrorLog /opt/netscape/server4/https-server1.sesta.com/logs/errors
PidLog /opt/netscape/server4/https-server1.sesta.com/logs/pid
User Userid
MtaHost localhost
DNS off
Security on
Ciphers +rc4,+rc4export,+rc2,+rc2export,+des,+desede3
SSL3Ciphers
+rsa_rc4_128_md5,+rsa_3des_sha,+rsa_des_sha,+rsa_rc4_40_md5,+rsa_rc2
_40_md5,-rsa_null_md5,+rsa_des_56_sha,+rsa_rc4_56_sha
ACLFile
/opt/netscape/server4/httpacl/generated.https-server1.sesta.com.acl
ClientLanguage en
AdminLanguage en
DefaultLanguage en
AcceptLanguage off
RqThrottle 1024
StackSize 131072
CGIWaitPid on
CGIWaitPid on
```

5. If the administration LDAP Directory Server process is also to run as a user other than root, edit the following file to change the `configuration.nsSuiteSpotUser` to user login name (`Userid`), as shown in bold text:

   `/opt/netscape/directory4/admin-serv/config/local.conf`
   `(partial example)`

```
nsServerID: admin-serv
userPassword: {SHA}/mZi7HWjvvYwFqgGkIRTOg79/Cc=
serverRoot: /opt/netscape/directory4
serverProductName: Administration Server
serverHostName: server1.sesta.com
uniqueMember: cn=admin-serv-server1, cn=Netscape Administration
Server,cn=Server
 Group, cn=server1.sesta.com, ou=sesta.com, o=NetscapeRoot
installationTimeStamp: 20000914220659Z
configuration.nsServerPort: 8900
configuration.nsSuiteSpotUser: Userid
configuration.nsServerAddress: 192.168.178.52
configuration.nsAdminEnableEnduser: on
configuration.nsAdminEnableDSGW: on
configuration.nsDirectoryInfoRef: cn=Server Group, cn=server1.sesta.com,
 ou=sesta.com,o=NetscapeRoot
configuration.nsAdminUsers: admin-serv/config/admpw
configuration.nsErrorLog: admin-serv/logs/error
configuration.nsPidLog: admin-serv/logs/pid
configuration.nsAccessLog: admin-serv/logs/access
configuration.nsAdminCacheLifetime: 600
configuration.nsAdminAccessHosts: *.sesta.com
configuration.nsAdminAccessAddresses: 192.168.178.52
configuration.nsAdminOneACLDir: adminacl
configuration.nsDefaultAcceptLanguage: en
configuration.nsClassname:
com.netscape.management.admserv.AdminServer@admserv42
.jar@cn=admin-serv-server1, cn=Netscape Administration Server, cn=Server Group,
cn=server1.sesta.com, ou=sesta.com, o=NetscapeRoot
```

6. Edit the following file to comment out line 410, `check_root_user`, as shown in bold text:

   `/opt/SUNWips/bin/ipsserver (lines 408 through 429)`

```
#####################################################################

# check_root_user
check_usage $# $2

# cd out of cdrom dir, so as to make sure no process gets started
with
# cwd = the cdrom, otherwise cdrom can’t eject
cd /var/opt/SUNWips/debug

umask 077
get_data

case "$1" in
  ’create’)
```

```
    do_debug $2
    $MULTISERVERINSTALL $1
    ;;
```

7. Rename the following files to prevent the iPlanet Portal Server server from automatically being started by root upon reboot:

```
# mv /etc/rc3.d/S42ipsserver /etc/rc3.d/XS42ipsserver
# mv /etc/rc3.d/K42ipsserver /etc/rc3.d/XK42ipsserver
```

8. Start the iPlanet Portal Server server component. From a terminal window, as the non-root user, do the following:

```
% /opt/SUNWips/bin/ipsserver start
```

Configuring User Non-Root on the Gateway

1. Edit the following file to comment out lines 172 through 176, as shown in bold text:

/opt/SUNWips/bin/ipsgateway (lines 170 through 182)

```
#####################################################################
# Main starts here
#####################################################################

# if test ‘id | /usr/bin/awk ’{print $1}’‘ != "uid=0(root)"
# then
# echo "‘$gettext ’You must be root user to run’‘ $0."
# exit 0
# fi

umask 077
ulimit -n 10240

case "$1" in
’start’)
```

2. Edit the following file to add `ips.gateway.user=`*`Userid`*, as shown in bold text:

   `/etc/opt/SUNWips/platform.conf`

NOTE Must be a valid *userid* on the iPlanet Portal Server gateway component. If `ips.gateway.user` does not match the *userid* for which the procedure has been applied, permission problems will result.

```
# Copyright 03/22/03 Sun Microsystems, Inc. All Rights Reserved.
# "@(#)platform.conf    1.29 03/03/22 Sun Microsystems"
#

ips.defaultDomain=sesta.com
ips.server.protocol=http
ips.server.host=server1.sesta.com
ips.server.port=8080
ips.profile.host=server1.sesta.com
ips.gateway.protocol=https
ips.gateway.host=server1.sesta.com
ips.gateway.user=Userid
ips.gateway.port=8443
ips.virtualhost=server1.sesta.com 192.168.01.01
ips.naming.url=http://server1.sesta.com:8080/namingservice
ips.notification.url=http://server1.sesta.com:8080/notificationservice
ips.daemons=securid radius safeword unix skey
securidHelper.port=8943
radiusHelper.port=8944
safewordHelper.port=8945
unixHelper.port=8946
skeyHelper.port=8947


ips.cookie.name=iPlanetPortalServer
ips.locale=en_US
ips.debug=error
ips.version=3.0
ips.basedir=/opt
ips.logdelimiter=&&
```

3. Rename the following files to prevent the iPlanet Portal Server gateway from automatically being started by root upon reboot:

```
# mv /etc/rc3.d/S90ipsgateway /etc/rc3.d/XS90ipsgateway
# mv /etc/rc3.d/K90ipsgateway /etc/rc3.d/XK90ipsgateway
```

4. Start the iPlanet Portal Server server and gateway components. From a terminal window, as the non-root user, do the following:

```
% /opt/SUNWips/bin/ipsserver start
% /opt/SUNWips/bin/ipsgateway start
```

Special Case Configurations

When the iPlanet Portal Server server and gateway components are installed on the same system, both the server and gateway must be configured to run as user *non-root*.

CAUTION If you have configured a system to run as a non-root user, then later add other packages with the installer, check the ownership of the Portal Server directories to make sure it is still user non-root.

Upgrading User Non-Root to Service Pack 5

To upgrade Non-Root userid installation from a previous version to Service Pack 5 requires that all the user names be reset to root for the upgrade to work. Once Service Pack 5 has been installed the user will have to re-configure the server and gateway to run as Non-Root. Failure to do all these steps may result in loss of data.

The following list is a brief summary of the steps required to upgrade to Service Pack 5:

1. Stop all services for the iPlanet Portal Server server and gateway.

NOTE See "Stopping the Server Component Processes" for information on how to correctly perform these functions.

2. If the gateway is running on a separate computer from the server, do the following:

   a. Edit the gateway `/etc/opt/SUNWips/platform.conf` file, as shown in bold text:

      Remove **`ips.gateway.user=userid`**

```
# Copyright 03/22/03 Sun Microsystems, Inc. All Rights Reserved.
# "@(#)platform.conf    1.29 03/03/22 Sun Microsystems"
#

ips.defaultDomain=sesta.com
ips.server.protocol=http
ips.server.host=server1.sesta.com
ips.server.port=8080
ips.profile.host=server1.sesta.com
ips.gateway.protocol=https
ips.gateway.host=server1.sesta.com
ips.gateway.user=userid
ips.gateway.port=8443
ips.virtualhost=server1.sesta.com 192.168.01.01
ips.naming.url=http://server1.sesta.com:8080/namingservice
ips.notification.url=http://server1.sesta.com:8080/notificationservice
ips.daemons=securid radius safeword unix skey
securidHelper.port=8943
radiusHelper.port=8944
safewordHelper.port=8945
unixHelper.port=8946
skeyHelper.port=8947


ips.cookie.name=iPlanetPortalServer
ips.locale=en_US
ips.debug=error
ips.version=3.0
ips.basedir=/opt
ips.logdelimiter=&&
```

3. Edit the following file, to uncomment line 410 (remove the #), `check_root_user`, as shown in bold text:

   `/opt/SUNWips/bin/ipsserver (lines 408 through 429)`

```
#####################################################################

check_root_user
check_usage $# $2
```

```
# cd out of cdrom dir, so as to make sure no process gets started
with
# cwd = the cdrom, otherwise cdrom can't eject
cd /var/opt/SUNWips/debug

umask 077
get_data

case "$1" in
  'create')
    do_debug $2
    $MULTISERVERINSTALL $1
    ;;
```

4. Edit the following file, to change the `configuration.nsSuiteSpotUser` to root, as shown in bold text:

   `/opt/netscape/directory4/admin-serv/config/local.conf`
   `(partial example)`

```
nsServerID: admin-serv
userPassword: {SHA}/mZi7HWjvvYwFqgGkIRTOg79/Cc=
serverRoot: /opt/netscape/directory4
serverProductName: Administration Server
serverHostName: server1.sesta.com
uniqueMember: cn=admin-serv-server1, cn=Netscape Administration
Server,cn=Server
 Group, cn=server1.sesta.com, ou=sesta.com, o=NetscapeRoot
installationTimeStamp: 20000914220659Z
configuration.nsServerPort: 8900
configuration.nsSuiteSpotUser: root
configuration.nsServerAddress: 192.168.178.52
configuration.nsAdminEnableEnduser: on
configuration.nsAdminEnableDSGW: on
configuration.nsDirectoryInfoRef: cn=Server Group, cn=server1.sesta.com,
ou=sesta.com, o=NetscapeRoot
configuration.nsAdminUsers: admin-serv/config/admpw
configuration.nsErrorLog: admin-serv/logs/error
configuration.nsPidLog: admin-serv/logs/pid
configuration.nsAccessLog: admin-serv/logs/access
configuration.nsAdminCacheLifetime: 600
configuration.nsAdminAccessHosts: *.sesta.com
configuration.nsAdminAccessAddresses: 192.168.178.52
configuration.nsAdminOneACLDir: adminacl
configuration.nsDefaultAcceptLanguage: en
configuration.nsClassname:
com.netscape.management.admserv.AdminServer@admserv42
.jar@cn=admin-serv-server1, cn=Netscape Administration Server, cn=Server
Group,
cn=server1.sesta.com, ou=sesta.com, o=NetscapeRoot
```

5. In a terminal window, do the following:

```
# chown -R root:root /etc/opt/SUNWips
# chown -R root:root /var/opt/SUNWips
# chown -R root:root /opt/netscape
# chown -R root:root /opt/SUNWips
```

6. Edit the following files:

`/opt/netscape/server4/http-`*servername*`/config/magnus.conf`

`/opt/netscape/server4/https-admserv/config/magnus.conf`

Change name of the user login name (`Userid`) to root, as shown in bold text.

```
ServerID https-server1.sesta.com
ServerName server1.sesta.com
Port 8080
LoadObjects obj.conf
RootObject default
ErrorLog
/opt/netscape/server4/https-server1.sesta.com/logs/errors
PidLog /opt/netscape/server4/https-server1.sesta.com/logs/pid
User root
MtaHost localhost
DNS off
Security off
Ciphers +rc4,+rc4export,+rc2,+rc2export,+des,+desede3
SSL3Ciphers
+rsa_rc4_128_md5,+rsa_3des_sha,+rsa_des_sha,+rsa_rc4_40_md5,+rsa
_rc2
_40_md5,-rsa_null_md5,+rsa_des_56_sha,+rsa_rc4_56_sha
ACLFile
/opt/netscape/server4/httpacl/generated.https-proxy.sesta.com.ac
l
ClientLanguage en
AdminLanguage en
DefaultLanguage en
AcceptLanguage off
RqThrottle 1024
StackSize 131072
CGIWaitPid on
CGIWaitPid on
```

7. Edit the following file, to change the `localuser` to `root`, as shown in bold text:

   `/opt/netscape/directory4/slapd-`*`servername`*`/config/slapd.conf`

```
##############################################################################
# /opt/netscape/directory4/slapd-server1/config/slapd.conf
# Netscape Directory Server global configuration file
# Do not modify this file while ns-slapd is running
##############################################################################
instancedir     "/opt/netscape/directory4/slapd-server1"
errorlog        "/opt/netscape/directory4/slapd-server1/logs/errors"
errorlog-logging-enabled        on

plugin syntax on "Telephone Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so" tel_init

plugin matchingRule on "Internationalization Plugin"
"/opt/netscape/directory4/lib/liblcoll.so" orderingRule_init
"/opt/netscape/directory4/slapd-server1/config/slapd-collations.conf"

plugin syntax on "Integer Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so" int_init

plugin syntax on "Distinguished Name Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so" dn_init

plugin syntax on "Case Ignore String Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so" cis_init

plugin syntax on "Case Exact String Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so" ces_init

plugin syntax on "Binary Syntax"
"/opt/netscape/directory4/lib/syntax-plugin.so" bin_init

return_exact_case       on
include "/opt/netscape/directory4/slapd-server1/config/slapd.at.conf"
include "/opt/netscape/directory4/slapd-server1/config/slapd.oc.conf"
include "/opt/netscape/directory4/slapd-server1/config/ns-schema.conf"
readonly        off
timelimit       3600
sizelimit       2000
lastmod on
idletimeout     0
ntsynch off
ntsynch-port    5009
ntsynchusessl   on
port    8389
secure-port     636
maxdescriptors  1024
schemacheck     off
enquote_sup_oc  on
security        off
localuser       root
```

```
userat  "/opt/netscape/directory4/slapd-server1/config/slapd.user_at.conf"
useroc  "/opt/netscape/directory4/slapd-server1/config/slapd.user_oc.conf"
accesslog       "/opt/netscape/directory4/slapd-server1-=/logs/access"
```

8. Install the Service Pack 5 upgrade. See "Upgrading to Service Pack 5" for the iPlanet Portal Server.
9. Reconfigure both the server and gateway to run as non-root. See the "Configuring User Non-Root on the Server" and "Configuring User Non-Root on the Gateway" sections.
10. Restore all backed up data, create all server instances, and all special configurations.

Non-Root User Error Messages

Running as a non-root user, there will be error messages on the server and gateway. These messages are expected, and workarounds are offered when appropriate.

Server Error Messages

a. Because a non-root user may not set the maximum file descriptors to a value larger than 1024. The `ipsserver` script attempts to set it to 10240.

```
/opt/SUNWips/bin/ipsserver: ulimit: exceeds allowable limit
```

Comment out the `ulimit` in `/opt/SUNWips/bin/ipsserver` and `/opt/SUNWips/bin/ipsgateway`.

b. Failure to start the `doSKey`. This error is not common.

```
starting auth helpers ... ld.so.1: /opt/SUNWips/bin/doSKey:
fatal: libskey.so: open failed: No such file or directory
```

A workaround is to start the doSKey manually as non-root *userid* in /bin/sh:

```
LD_LIBRARY_PATH=/opt/SUNWips/bin
export LD_LIBRARY_PATH
/opt/SUNWips/bin/doSKey -c 8947
```

c. When running as a non-root user, if a locally-administered UNIX userid is to be authenticated, then:

```
# chown root:sys /opt/SUNWips/bin/doUnix
# chmod 4555 /opt/SUNWips/bin/doUnix
```

The chmod command setuid's doUnix, so that it runs as though root, even when started by non-root users.

Gateway Error Messages

Non-root users appear to be able to only set `ulimit -n 1024` as a maximum number. Running as a non-root user will restrict how much load the gateway can simultaneously handle.

```
/dev/fd/some_number: ulimit: bad ulimit
```

Glossary

access control Implements the privileges granted by authorization.

address In networking, a unique code that identifies a *node* to the *network*. Names like portal.demo.sesta.com are translated to "dotted quad" addresses (10.0.24.15) by the Domain Name Service. (DNS).

administration console The administrator's GUI interface to iPlanet™ Portal Server.

API Application Program Interface, a set of calling conventions or instructions defining how programs invoke services in existing software packages.

applet A program written in the Java™ programming language to run within a Web browser. An example would be the Java front ends to iPlanet Portal Server's NetMail and NetFile applications.

attribute A configurable parameter of a profile.

ASP Application Service Provider. A company that, for a fee, provides access to applications that users can run without owning their own copies. See *ISP*.

authentication The process of verifying a user's identity.

authentication module An authentication module controls a specific authentication process. For example, iPlanet Portal Server provides authentication modules for Microsoft Windows NT, UNIX, S/key, and others, as well as opening the authentication API so other authentication modules can be written as needed.

authorization The process of granting specific access privileges to a user. Authorization is based on authentication and enforced by access control.

CA See *Certificate Authority*.

cache In Web browsers, the archive of recently visited Web pages, graphics, or other files that is stored in memory or on users' disks.

CDP Certificate Discovery Protocol. Request and response protocol used by two parties to transfer certificates.

certificate A set of data that identifies a person, machine, or application.

certificate identifier (ID) Generic naming scheme term used to identify a particular self-generated or issued certificate. It effectively decouples the identification of a key for purposes of key lookup and access control from issues of network topology, routing, and IP addresses.

Certificate Authority (CA) Trusted network entity that digitally signs a certificate containing information identifying the user; such as the user's name, the issued certificate, and the certificate's expiration date. Verisign is one of the best known CA's.

component An application or a service in iPlanet Portal Server. Components have attributes and privileges, much like users.

content filtering Practice of allowing or disallowing traffic based on the content of the data being sent.

cookie General mechanism that server-side connections can use to store and retrieve information on the client side of the connection. Cookies are small data files written to a user's hard drive by some Web sites when viewed in a Web browser. These data files contain information the site can use to track such things as passwords, lists of pages visited, and the date when a certain page was last looked at.

data compression Application of an algorithm to reduce the space required to store or the bandwidth required to transmit data.

decryption Process of decrypting information that has been encrypted. See *encryption*.

demilitarized zone (DMZ) Small protected network between the public Internet and a private intranet, usually demarcated with firewalls on both ends. This area is used to provide limited public access to resources such as Web servers, FTP servers, and other information resources.

desktop What the end user sees on the screen. This usually includes a preferred set of applications and access privileges.

digital signatures Data added to a document to identify the sender using a public-key encryption scheme.

DMZ See *demilitarized zone.*

DNS Domain Name Service is a distributed name and address lookup mechanism used to translate domain names (portal.demo.sesta.com) to IP addresses (10.23.134.24). It also allows reverse lookup, to translate IP addresses back into names.

domain The last part of a *fully qualified domain name* that identifies the company or organization that owns the domain name (for example, sesta.com, sesta.co.uk).

encryption Process of protecting information from unauthorized use by making the information unintelligible. Some encryption methods employ codes, called keys, which are used to encrypt the information. Contrast with *decryption*.

firewall Computer located between an internal network and the rest of the network that filters packets as they go by according to user-specified criteria. Firewalls are normally used to protect systems on one side from unauthorized access by users on the other side.

File Transfer Protocol (FTP) A file transfer protocol often used on TCP/IP networks to copy files to and from remote computers.

fully qualified domain name The complete domain name of a system, including the hostname, network name if applicable, and domain; for example west.sesta.comsesta.com.

gateway A system that provides and controls connections to another network. See *VPN*.

host Name of a device on a TCP/IP network that has an IP address.

HTML Hypertext Markup Language. A file format, based on SGML, for hypertext documents on the Internet.

HTTP Hypertext Transfer Protocol, which describes how Web browsers and Web servers exchange information. See *URL.*

HTTPS Hypertext Transfer Protocol Secure, which describes the use of HTTP over an SSL connection, usually on port 443.

ICMP Internet Control Message Protocol. IP protocol that handles errors and control messages, to enable routers to inform other routers (or hosts) of IP routing problems or make suggestions of better routes. See *ping*.

IMAP Internet Message Access Protocol allows remote access to mailboxes and folders. IMAP clients usually leave some or all messages and folders on the server, unlike POP, in which all messages are downloaded.

Internet Protocol Protocol within TCP/IP suite used to link networks worldwide, developed by the United States Department of Defense and is used on the Internet. The prominent feature of this suite is the IP protocol.

IP See *Internet Protocol*.

ISP Internet Service Provider. A company providing Internet access. This service often includes a phone number access code, username, and software—all for a provider fee.

issued certificate Certificate that is *issued* by a *Certificate Authority*. See *self-generated certificate*.

ISV Independent Software Vendor. Third-party software developer.

Java™ Object-oriented, platform independent programming language developed by Sun Microsystems to solve a number of problems in modern programming practice.

JDK Java Development Kit. Software tools used to write Java applets or application programs.

key Code for encrypting or decrypting data.

LAN Local area network, a private network at a single location. Multiple LANs can be interconnected to form a WAN.

LDAP Lightweight Directory Access Protocol. One of the protocols used in iPlanet™ Portal Server to resolve profile attributes and privileges.

load balancer A load balancer controls connections to multiple gateway machines to allow approximately equivalent loads on each of the available systems.

NAT See *network address translation*.

Netlet A Java applet used in iPlanet Portal Server to allow any TCP/IP-based applications to securely connect to servers through an authenticated iPS connection.

network address translation (NAT) Function used when packets passing through a firewall have their addresses changed (or translated) to different network addresses. Address translation can be used to translate unregistered addresses into a smaller set of registered addresses, thus allowing internal systems with unregistered addresses to access systems on the Internet.

network mask Number used by software to separate the local subnet address from the rest of a given IP address.

NFS™ Network File System. A file system distributed by Sun Microsystems that enables a set of computers to cooperatively access each others files in a transparent manner.

NIS and NIS+ Network Information Service. NIS+ is a newer version (with a lookup service) for Solaris 2.x, with enhanced security.

node A transfer point within a network. Data is passed from node to node in a network until the data reaches its final destination.

passphrase Collection of characters used in a similar manner to, although typically longer than, a password. See *password*.

password Unique string of characters that a user types as an identification code; a security measure to restrict access to computer systems and sensitive files.

personal digital certificate (PDC) An electronic certificate attached to a message that authenticates a user. A personal digital certificate can be created by correctly entering a userID and password, or by using an SSL certificate request that in turn uses the security certificate of the server through which the user is connected.

PDC See *personal digital certificate*.

ping A TCP/IP command that verifies a connection to another host.

plaintext Unencrypted message.

Point-to-Point Protocol (PPP) PPP (the successor to SLIP) provides router-to-router and host-to-network connections over both synchronous and asynchronous circuits. Used for TCP/IP connectivity, usually for PC's over a telephone line. Also known as PPTP.

POP Post Office Protocol; defines a mechanism with which Internet users can connect to and download their waiting email messages.

PPP See *Point-to-Point Protocol*.

port The location (or socket) to which TCP/IP connections are made. Web servers traditionally use port 80, while FTP uses port 21 and telnet uses port 23. iPlanet Portal Server uses some special ports, particularly on client systems, to securely communicate through the iPS session to servers.

preference A user-specified choice about what appears or doesn't appear on the desktop, and how it appears, or other traits such as timeout settings.

private network A network of computers that is inaccessible unless you have appropriate access privileges. Private networks may be as small as a one-office LAN or as large as a multi-country enterprise network. See also *public network*.

privilege A type of access right that is granted to a user, a set of users, or a resource that is specified by the particular type of authorization implemented.

profile The attributes and privileges for an iPS entity, such as user, role, domain, or component.

profile server A special segment of iPlanet™ Portal Serverthat is devoted to storing profile information.

protocol A formal description of messages to be exchanged and rules to be followed for two or more systems to exchange information.

provider A Java class that can write HTML content to a mini-frame in the desktop. Providers (also called *content providers*) are used to create information in specific areas of a user's desktop.

proxy A proxy is an intermediary program that makes and services requests on behalf of clients. Proxies act as servers and clients in turn, and are used to control the content of various network services. See *reverse proxy*.

public-key certificate A data structure containing a user's public key, as well as information about the time and date during which the certificate is valid.

public-key cryptography Also known as *asymmetric* key cryptography. In public-key cryptosystems, everyone has two related complementary keys: a publicly revealed key and a *secret* key (also frequently called a *private* key). Each key unlocks the code that the other key makes. Knowing the public key does not help you deduce the corresponding secret key. The public key can be published and widely disseminated across a communications network. This protocol provides privacy without the need for the secure channels that a conventional cryptosystem requires.

public network Like the Internet, a public network carries traffic from a variety of companies, individuals, and sources and is inherently insecure. Contrast with *private network*.

query Process for extracting particular data.

reverse proxy A proxy which performs bi-directional URL rewriting and translation between clients and servers. Unlike a proxy, which exists at the client side, a reverse proxy exists at the server side of the network. In iPlanet Portal Server, the reverse proxy exists on theiPS gateway.

role A role defines all aspects of a user's experience when running in the iPlanet Portal Server environment. A role can, for instance, correspond to a job title (manager, engineer, sales, etc.) or can be defined other ways, such as a full member of a working group or an observer. A role determines what a user sees and can use.

router Intermediary device responsible for deciding which of several paths network (or Internet) traffic will follow.

secret key In public-key cryptography, a private key that is never disclosed to the public. See *public-key cryptography*.

Secure Socket Layer (SSL) A form of secure, low-level encryption that is used by other protocols like HTTP and FTP. The SSL protocol includes provisions for server authentication, encryption of data in transit, and optional client authentication. The version used in iPlanet Portal Server uses RSA's public and private key encryption, as well as a digital certificate.

self-generated certificate Public key value only used when entities are named using the message digest of their public value, and when these names are securely communicated. See *issued certificate*.

session An iPlanet Portal Server session is a sequence of interactions between a user and one or more applications, starting with login and ending with logout or timeout.

session key Common cryptographic technique to encrypt each individual conversation between two people with a separate key.

SGML Standard Generalized Markup Language. Method of tagging a document to apply to many format elements.

shared-key cryptography Also known as *symmetric key cryptography*. Cryptography where each party must have the same key to encrypt or decrypt *ciphertext*.

smart card A plastic card with a magnetized strip that is used for authentication.

SMTP Simple Mail Transfer Protocol. Used on the Internet to route email.

SMTP proxy A variant of SMTP that sends messages from one computer to another on a network and is used on the Internet to route email.

SNMP Simple Network Management Protocol. Network management protocol that enables a user to monitor and configure network hosts remotely.

SSL See Secure Socket Layer.

SSL Certificate An electronic token that means you or a vendor have given approval to encrypt and decrypt your secure transactions, using PKI. You create a self-signed SSL Certificate when you install iPlanet Portal Server software. However, you can also obtain an SSL Certificate from a certificate vendor who authorizes secure communications services over the Internet.

subdomain The next-to-last part of a *fully qualified domain name* that identifies the division or department within a company or organization that own the domain name (for example, eng.sesta.com, sales.sesta.co.uk); not always specified.

subnet Working scheme that divides a single logical network into smaller physical networks to simplify routing.

subnet mask Specifies which bits of the 32-bit IP address represent network information. The subnet mask, like an IP address, is a 32-bit binary number: a 1 is entered in each position that will be used for network information and a 0 is entered in each position that will be used as node number information. See *node*.

symmetric key cryptography See shared-key cryptography.

TCP See transmission control protocol.

TCP/IP Transmission Control Protocol / Internet Protocol. Protocol suite originally developed for the Internet. It is also called the *Internet* protocol suite. Solaris networks run on TCP / IP by default.

telnet Virtual terminal protocol in the *Internet* suite of protocols. Enables users of one *host* to log in to a remote host and interact as normal terminal users of that host.

telnet proxy An application which sits between the telnet client and telnet server and acts as an intelligent relay.

transmission control protocol (TCP) Major transport protocol in the Internet suite of protocols providing reliable, connection-oriented, full-duplex streams. Uses IP for delivery. Encrypts only IP packet data, but not the headers. Corresponds to the transport layer, which is the fourth of the seven ISO layers. See *TCP/IP*.

transparent clustering A condition whereby multiple machines will appear to the user to be a single machine. In iPlanet Portal Server, the condition where multiple gateways appear to the user to be a single gateway.

tunneling Process of encrypting an entire IP packet, and wrapping it in another (unencrypted) IP packet. The source and destination addresses on the inner and outer packets may be different.

tunnel address Destination address on the outer (unencrypted) IP packet to which tunnel packets are sent. Generally used for encrypted gateways where the IP address of the host serves as the intermediary for any or all hosts on a network whose topology must remain unknown or hidden from the rest of the world.

URL Uniform Resource Locator. A code that searches for the location of a specific address on the Internet.

user ID Name by which a user is known to the system.

Virtual Private Network A network with the appearance and functionality of a regular network, but which is really like a private network within a public one.

The use of encryption in the lower protocol layers provides a secure connection through an otherwise insecure network, typically the Internet. VPN's are generally cheaper than true private networks using private lines, but rely on having the same encryption system at both ends. The encryption may be performed by firewall software or possibly by routers.

VPN gateway The entry point to a VPN. Typically protected by a firewall.

VPN See *Virtual Private Network.*

WAN Wide area network, a private network (intranet) spanning more than one physical location.

Watchdog A process that monitors a gateway and restarts the gateway if its processes fail.

Web See *World Wide Web.*

Web page Document on the Web.

web server An application that responds to web requests such as HTTP, FTP, etc.

World Wide Web Network of servers on the Internet that provide information and can include hypertext links to other documents on that server and often other servers as well.

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