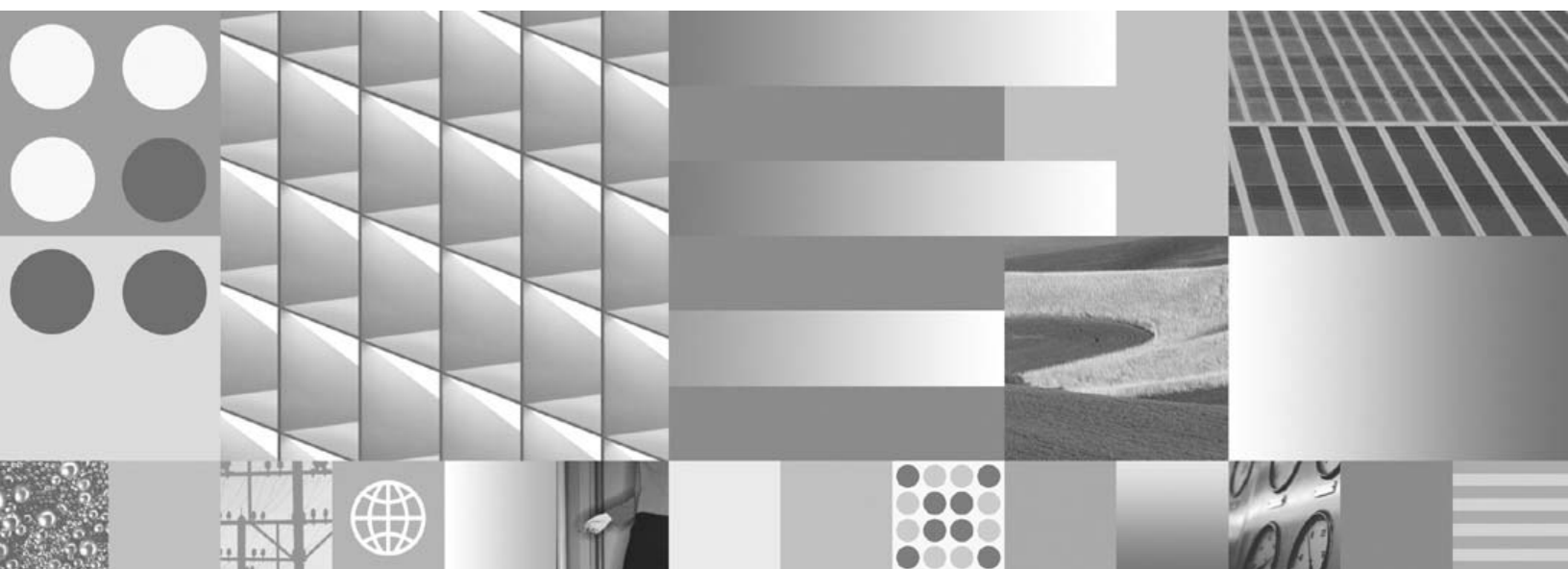


Guidelines for Installing and Configuring IBM DB2 Software



Guidelines for Installing and Configuring IBM DB2 Software

Note

Before using this information and the product it supports, read the information in "Notices".

This edition applies to version 4.1 of IBM FileNet Image Services (product number 5724-R95) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Guidelines for Installing and Configuring IBM® DB2® Universal Database Software

This document provides guidelines for installing IBM DB2 Universal Database™ V8.1 or V8.2 software on AIX®, HP-UX® (HP 9000 or HP Integrity), Sun® Solaris, and Windows® Servers for use with FileNet® Image Services.

Server Types

Perform the procedures in this document on these Image Services servers:

Root/Index - (Multi-server installation)

Root/Index/Storage Library - (Combined or Entry server install)

Application - (Running WorkFlo Queue Services,
SQL Services or VW Services)

The **Database Administrator** is responsible for installing the DB2 software on both Server and Client computers, and for creating the DB2 database.

At this time, Image Services requires the DB2 database and server software to be located on a remote AIX 5L (v5.2 or v5.3) 64-bit server or on a remote Solaris 9 or Solaris 10 64-bit server.

The DB2 client software can be installed on any UNIX® or Windows® platform supported by Image Services: AIX, HP-UX (HP 9000 or HP Integrity), Solaris, or Windows Server.

Note Image Services and the DB2 database cannot be collocated on the same AIX or Solaris server at this time.

Document revision history

IS version	Date	Comment
4.1.1	Nov. 2007	Initial release.

DB2 Software Media Requirements

FileNet Image Services 4.1 is compatible with these versions of IBM DB2:

- Version 8.1.12 and higher
- Version 8.2.5 and higher

For the DB2 Database Server

AIX

- **IBM DB2 v8.1.0 or v8.2.0** (1 CD-ROM). **DB2 UDB Enterprise Server Edition (ESE) for AIX 5L**. This compact disk contains the IBM DB2 RDBMS software for the DB2 database server.

AIX

- **IBM DB2 Universal Database Version 8 FixPak 12** or higher. (download from IBM's Web site, www.ibm.com.)

- or -

SOL

- **IBM DB2 v8.1.0 or v8.2.0** (1 CD-ROM). **DB2 UDB Enterprise Server Edition (ESE) for Solaris 9**. This compact disk contains the IBM DB2 RDBMS software for the DB2 database server.

SOL

- **IBM DB2 Universal Database Version 8 FixPak 12** or higher. (download from IBM's Web site, www.ibm.com.)

For the Image Services Server**AIX**

- **IBM DB2 v8.1.0 or v8.2.0** (1 CD-ROM). **DB2 UDB Administration /Runtime Client for AIX 5L**.

HPUX

- **IBM DB2 v8.1.0 or v8.2.0** (1 CD-ROM). **DB2 UDB Administration /Runtime Client for HP-UX 11i**.

SOL

- **IBM DB2 v8.1.0 or v8.2.0** (1 CD-ROM). **DB2 UDB Administration /Runtime Client for Solaris 9**.

WIN

- **IBM DB2 v8.1.0 or v8.2.0** (1 CD-ROM). **DB2 UDB Administration /Runtime Client for Windows Server 2000/2003**.

UNIX**WIN**

- **IBM DB2 Universal Database Version 8 FixPak 12** or higher. (download from IBM's Web site, www.ibm.com.)

Note

DB2 V8.1.7 is equivalent to **DB2 V8.2**.

DB2 V8.1.8 is equivalent to **DB2 V8.2.1**

DB2 V8.1.12 is equivalent to **DB2 V8.2.5**.

Hardware Requirements

DB2 ESE V8.1/V8.2 Server (where the DB2 Database will reside)

Platform	Hardware	Minimum Physical RAM	Free Disk Space for DB2 Software	Temporary Free Disk Space
AIX 5L (v5.2 / v5.3) 64-bit	IBM RISC/6000 eServer pSeries	256 MB	350 to 700 MB	2 GB file system for uncompressing files
Solaris 9 Solaris 10 64-bit	Solaris UltraSPARC-based computers	256 MB	350 to 700 MB	2 GB file system for uncompressing files

Navigate to the DB2 Web site at <http://www-306.ibm.com/software/data/db2/9/sysreqs2.html> and **DB2 V8** from the drop-down list for the latest hardware and software requirements.

DB2 V8.1/V8.2 Client (where the Image Services software will reside)

Platform	Hardware	Minimum Physical RAM	Free Disk Space for DB2 Software	Free Disk Space for Image Services Software
AIX 5L 64-bit	IBM RISC/6000 eServer pSeries	256 MB	130 MB	1.0 GB
HP-UX 11i v1 64-bit	HP 9000 (PA-RISC)	256 MB	130 MB	1.0 GB
HP-UX 11i v2 64-bit	HP Integrity (PA-RISC and Itanium® 2)	256 MB	130 MB	1.0 GB
Solaris 9 32-bit or 64-bit	Sun SPARC	256 MB	130 MB	1.0 GB
Solaris 10 64-bit	Sun SPARC	256 MB	130 MB	1.0 GB
Windows Server	Pentium CPU or higher	256 MB	110 MB	1.0 GB

Disk Space Requirements

The DB2 ESE **Server** software requires a **minimum** of:

	Disk Space	Temporary Disk Space
AIX	420 to 530 MB	2.0 GB *
Solaris	420 to 530 MB	2.0 GB *

* This temporary disk space can be a mountable file system on another server.

DB2 **Client** software requires:

	Minimum Disk Space
DB2 Run-time Client on UNIX	50 to 60 MB *
DB2 Admin Client on UNIX	125 MB * (not including Java Runtime Environment)
DB2 Run-time Client on Windows	20 to 30 MB
DB2 Admin Client on Windows	80 to 110 MB

* An additional 20 MB may be needed for the instance creation in the /home directory.

Operating System Requirements

Check IBM's DB2 Web site at <http://www-306.ibm.com/software/data/db2/9/sysreqs2.html> and **DB2 V8** from the drop-down list for the latest OS requirements.

DB2 V8.1/V8.2 ESE Server

OS	OS Patches	Other Software
AIX 5.2 64-bit	Maintenance Level 02 or higher	JRE 13_64.rte *
AIX 5.3 64-bit	Technology Level 04	JRE 14_64.rte *
Solaris 9 64-bit	Solaris 9 09/05 release	JRE version 1.4*
Solaris 10 64-bit	Solaris 10 11/06 release	JRE version 1.4*

* Java Runtime Environment (JRE) is required to run DB2 graphical tools.

DB2 V8.1/V8.2 Client

OS	OS Patches	Other Software	Kernel Parameters
AIX 5.2 64-bit	Technology Level 08 Technology Level 09	JRE 1.3.1 *	
AIX 5.3 64-bit	Technology Level 04 Technology Level 05		
HP-UX 11i v1**	December 2006 Support Plus and June 2006 September 2006 Standard Patch Bundles	JRE 1.3.1 *	msgmax=65535 msgmnb=65535
HP-UX 11i v2	September 2006 Standard Patch Bundles (PA-RISC) September 2006 Standard Patch Bundles (Itanium) June 2006 Standard Patch Bundles (Itanium)	JRE 1.3.1 *	msgmax=65535 msgmnb=65535
Solaris 9 Solaris 10	Solaris 9 09/05 release Solaris 10 11/06 release	JRE 1.3.1 * for 32-bit Solaris; JRE 1.4.0 * for 64-Bit Solaris	msgmax=65535 msgmnb=65535
Windows 2003	SP1 R2	JRE 1.3.1 *	

* Java Runtime Environment (JRE) is required to run DB2 graphical tools. The DB2 Java GUI tools are not provided with the DB2 Version 8.1 Run-time Client, so you don't need to install JRE if you install DB2 Run-time Client.

** As a result of installing the OS patches on HP-UX, the behavior of **catopen** has changed. After the patches have been installed, modify the `/etc/default/nlspath` file. Use your preferred text editor to add the following line as the last line of the file:

```
NLSPATH=*
```

Be sure to check the IBM DB2 Web site at <http://www-306.ibm.com/software/data/db2/9/sysreqs2.html> and **DB2 V8** from the drop-down list for the latest OS requirements.

Installing DB2 ESE Software on AIX and Solaris Servers

To install and configure the DB2 software on the server that will host the DB2 database, see [Chapter 2, “Guidelines for Installing DB2 ESE V8.1/V8.2 Server Software,” on page 17](#).

Installing DB2 Client Software

To install the DB2 client software on the server that will host Image Services and link to the DB2 database, see [Chapter 3, “Guidelines for Installing DB2 V8.1/V8.2 Client Software,” on page 28](#).

Accessing IBM FileNet Documentation

To access documentation for IBM FileNet products:

1. Navigate to the Information Management support page (www.ibm.com/software/data/support).
2. Select the appropriate IBM FileNet product from the “Select a category” list.
3. From the Product Support page, click Product Documentation under Learn.
4. From the Product Documentation page

- a. If necessary, click the Doc Link for the appropriate component product to display the document list.
- b. Click the icon in the appropriate release column to access the document you need.

Guidelines for Installing DB2 ESE V8.1/V8.2 Server Software

This chapter describes how to configure a DB2 database on a dedicated, remote AIX 5.2, AIX 5.3, Solaris 9, or Solaris 10 64-bit server.

Before You Begin

Be sure the server has the appropriate version of the operating system:

- AIX 5L V5.2 (64-bit) with Maintenance Level 02 or higher
- AIX 5L V5.3 (64-bit) with Technology Level 04
- Solaris 9 (64-bit)
- Solaris 10 (64-bit)

You can check the operating system version by entering:

AIX

oslevel -r

- or -

SOL

uname -r

Create DB2 Users and Groups

Three users and three groups are required to use DB2. You may specify your own user and group names as long as they adhere

system naming rules and DB2 naming rules. (Check the IBM documentation to be sure.) If you choose to let DB2 create them for you during the installation process, they'll have the default names shown in the following table:

	Default User Name	Default Group Name
Instance Owner	db2inst1	db2iadm1
Fenced User	db2fenc1	db2fadm1
DB2 Administration Server User	db2as	db2asgrp

- The **instance owner** home directory is where the DB2 instance will be created.
- The **fenced user** runs user-defined functions (UDFs) and stored procedures outside the address space used by the DB2 database.
- The **DB2 Administration Server (DAS) user** runs the DB2 administration server on your system.

To prevent environmental conflicts between two or more instances, you should ensure that each instance has its own home file system. Errors will be returned when the home file system is shared.

Each instance owner must have a unique home directory. All of the files necessary to run the instance are created in the home directory of the instance owner's user ID/username.

The instance owner and the group that is the System Administration (SYSADM) group are associated with every instance. The instance owner and the SYSADM group are assigned during the process of creating the instance.

Note The **root** user cannot act as a DBA. You must logon as the instance owner to act as the DBA. For example:

```
su - <instance owner>
```

The primary group of the instance owner automatically becomes the system administration group for the instance and gains SYSADM authority over the instance. Other user IDs or user names that are members of the primary group of the instance owner also gain this level of authority.

Create Image Service Users for DB2 Server Authentication

DB2 provides a variety of authentication types to authenticate users to access databases. FileNet Image Services supports authentication types of SERVER, SERVER_ENCRYPT, and CLIENT.

- **SERVER** authentication specifies that authentication occurs on the server using local operation system security.
- **SERVER_ENCRYPT** authentication specifies that the server accepts encrypted SERVER authentication scheme.
- **CLIENT** authentication specifies that authentication occurs on the database partition where the application is invoked using operating system security.

Note We recommend that you use SERVER or SERVER-ENCRYPT authentication for Image Services.

SERVER or SERVER_ENCRYPT Authentication

When the database authentication type is set to SERVER or SERVER_ENCRYPT, the following users must be created on the DB2 server where the DB2 database resides.

FileNet Image Services requires four users that have SYSADM authority to access the DB2 database:

- f_sw
- f_sqi
- f_maint
- f_open

These users are regular OS level users, and unlike the instance owner users, they don't need to have a separate file system for their home directories. **The only requirement is that they belong to the primary group of the instance owner, so they will have SYSADM authority over that instance.**

AIX

An AIX Example

If the instance owner group is fn_grp1, enter the following commands as a user with **root** privileges:

```
mkuser pgrp=fn_grp1 f_sw
mkuser pgrp=fn_grp1 f_sqi
mkuser pgrp=fn_grp1 f_maint
mkuser pgrp=fn_grp1 f_open
```

Set their passwords by entering:

```
passwd f_sw  
passwd f_sqi  
passwd f_maint  
passwd f_open
```

Logoff as **root** user, and logon as each of the four new users, one at a time, to change the password to avoid connection problems the first time they're used.

SOL

A Solaris Example

If the instance owner group is `fn_grp1`, enter the following commands as a user with **root** privileges:

```
useradd -d /export/home/f_sw  
useradd -d /export/home/f_sqi  
useradd -d /export/home/f_maint  
useradd -d /export/home/f_open  
  
useradd -g fn_grp1 -G Staff  
  
useradd -s /bin/ksh -m f_sw  
useradd -s /bin/ksh -m f_sqi  
useradd -s /bin/ksh -m f_maint  
useradd -s /bin/ksh -m f_open
```

Logoff as **root** user, and logon as each of the four new users, one at a time, to change the password to avoid connection problems the first time they're used.

CLIENT Authentication

When the authentication type is CLIENT, these users must be created on the DB2 client computer (IS Root/Index server) with special requirements. See [Chapter 3, “Guidelines for Installing DB2 V8.1/V8.2 Client Software,” on page 28](#) for details.

Install DB2 ESE

- 1 As a user with **root** privileges, create a temporary file system with 2.0 GB of free space to contain the tar.Z and the uncompressed installation file.
- 2 Mount the CD-ROM.
- 3 Copy the compressed image and uncompress it.
- 4 Launch the DB2 Installer and make the following selections:
 - Install Product
 - DB2 UDB Enterprise Edition
 - Typical Installation
 - Create a 64-bit instance
 - Single partition instance
- 5 When the installation is finished, view the status report or go to /tmp to view all DB2 install logs to ensure there are no errors.

After a successful installation, DB2 the instance should be up and running. Continue with the next section.

Install 64-bit JDK or JRE

Because you've created a 64-bit instance of DB2 ESE, you need to install the Java Developer's Kit (JDK) or Java Runtime Environment (JRE) before you can use any DB2 functionality that depends on Java.

On an AIX Server

- 1 Unmount and remove the DB2 CD-ROM, and load the AIX 5L Bonus Pack CD-ROM.
- 2 Follow the instructions on the CD to install the Java 1.4.1.0 JDK (Java developer's kit) or JRE (Java runtime environment).
- 3 Unmount and remove the AIX 5L Bonus Pack CD.

On a Solaris Server

- 1 Unmount and remove the DB2 CD-ROM, and load the AIX 5L Bonus Pack CD-ROM.
- 2 Follow the instructions on the CD to install the Java 1.4.1.0 JDK (Java developer's kit) or JRE (Java runtime environment).
- 3 Unmount and remove the AIX 5L Bonus Pack CD.

Create the DB2 Database

You need to have SYSADM authority to create the database. The database name must be unique and can be from 1 to 8 characters long. For example, **indexdb**.

Tip If possible, use the same name for both the database name and the database alias name.

Determine Page Size and User Defined Index Fields

When you create your DB2 index database for Image Services, you have a choice of several page sizes for your tablespace: 4 KB, 8 KB,

16 KB, and 32 KB. The page size you choose affects the number and size of the user-defined index fields, and it also affects the maximum row length of the tables within that tablespace.

Note **Image Services does not support the 4 KB page size.**

DB2 UDB V8.2.5 (or V8.1.12) includes the ability to create a database with an initial page size other than 4 KB through the CREATE Database CLP command.

A smaller page size makes data retrieval faster; however, a larger page size makes a larger number of user-defined index fields possible.

The Image Services index database contains four tables for user-defined indexes: doctaba, user_index, document_class, and doc_class_index. Doctaba is the largest of the four, and the way you design it affects the page size you choose.

Image Services allows you to define up to 224 individual index fields (or columns) in doctaba. An additional 30 index fields (about 1 KB) are reserved for use by Filenet software. (All this is explained in much more detail in the “Database Maintenance” chapter of the *Image Services System Administrator’s Handbook*.)

Each user index field can be defined as one of these data types:

- Numeric - with mask, 17 bytes (compressed) maximum, without mask, 8 bytes (compressed) maximum
- Character String - always 239 bytes (characters)
- Date - 4 bytes compressed
- Menu - always 14 bytes

As you plan the index fields you’re going to define after you create the Image Services DB2 database, keep track of the total size.

The important thing to remember is that **the total row length of all the index fields (including system indexes and user-defined indexes) cannot be larger than the page size**. The DB2 page size you select when you create your index database must be large enough to hold at least one complete index record. DB2 cannot retrieve a partial index record or spread a single index record onto two pages.

However, DB2 can retrieve multiple index records in one page if the page size is large enough.

Important

Each row in Doctaba contains the index information for one document, so bear in mind that the page size you choose impacts the total number of index records (and documents) that can be stored.

And be sure to allow room for future expansion. You’ll undoubtedly want to add more index fields in the months and years ahead.

Create the DB2 Tablespace

Recommended Tablespace Name	Tablespace Name Actually Assigned	Minimum Size (MB)	Tablespace Size Actually Created
userspace1		200	

Report to Sys Admin and your service representative

Please return the following information to the System Administrator and your service representative or ValueNet Partner.

	Default User Name	User Name You Chose	Default Group Name	Group Name You Chose
Instance Owner	db2inst1		db2iadm1	
Fenced User	db2fenc1		db2fadm1	
DB2 Administration Server User	db2as		db2asgrp	

Recommended Tablespace	Tablespace Name Actually Assigned	Minimum Size (MB)	Tablespace Size Actually Created
userspace1		200	

f_sw password: _____

f_sqi password: _____

f_maint password: _____

f_open password: _____

DB2 Database Alias Name: _____
(indexdb, for example)

User Tablespace Location: _____
(userspace1, for example)

Continue the DB2 Client Installation

After the DB2 server software has been successfully installed, you can continue with the next chapter, **Chapter 3, “Guidelines for Installing DB2 V8.1/V8.2 Client Software,” on page 28.**

Guidelines for Installing DB2 V8.1/V8.2 Client Software

This chapter describes how to configure a DB2 V8.1/V8.2 client software on the Image Services server and link it to the DB2 index database.

The Image Services server can be either a Root/Index server or an Application server.

Before You Begin

The FileNet Image Services server must be running one of these operating systems:

- AIX 5L V5.2 with Technology Level 08 or higher or
AIX 5L V5.3 with Technology Level 04 or higher
(64-bit)
- HP-UX 11i v1 for servers with PA-RISC processors
HP-UX 11i v2 for servers with PA-RISC processors or
Intel® Itanium® 2 processors
(64-bit)
- Solaris 9 (32-bit or 64-bit)
Solaris 10 (64-bit)
- Windows Server 2003 SP1 or higher
(32-bit)

Refer to Chapter 1, [**“Operating System Requirements” on page 13.**](#)

Create Image Service Users for DB2 Client Authentication

For CLIENT authentication, FileNet Image Services requires four OS-level users that need to be created on the DB2 client computer (the IS Root/Index server). Their privileges need to be set up differently from SERVER or SERVER_ENCRYPT authentication type since SYSADM authority cannot be granted on the DB2 client system.

In this case, the **f_sw**, **f_sqi**, and **f_open** users need to have connect, createtab, and bindadd privileges, while the **f_maint** user needs to have dbadm privileges for the database.

- 1 After the database has been created, you can grant these privileges by entering the following SQL commands as the instance owner on the DB2 server:

```
Connect to <dbname> ;  
Grant createtab, bindadd, connect on database to user f_sw;  
Grant createtab, bindadd, connect on database to user f_sqi;  
Grant createtab, bindadd, connect on database to user f_open;  
Grant dbadm on database to f_maint;
```

- 2 Enable DB2_SNAPSHOT_NOAUTH at the instance level on the DB2 database server:

```
db2set DB2_SNAPSHOT_NOAUTH=on
```

Note According to DB2, turning on the DB2_SNAPSHOT_NOAUTH registry variable to enable all users to access system monitor data introduces some security risks. Therefore we recommend the SERVER and SERVER_ENCRYPT authentication types.

The following table summarizes the privilege for each authentication type for the four FileNet database users

OS and RDBMS User	Privilege for CLIENT Authentication Type
f_sw	Connect, createtab, bindadd db2set DB2_SNAPSHOT_NOAUTH=on
f_maint	Dbadm db2set DB2_SNAPSHOT_NOAUTH=on
f_sqi	Connect, createtab, bindadd db2set DB2_SNAPSHOT_NOAUTH=on
f_open	Connect, createtab, bindadd db2set DB2_SNAPSHOT_NOAUTH=on

AIX

An AIX Example

If the instance owner group is fn_grp1, enter the following commands as a user with **root** privileges:

```
mkuser pgrp=fn_grp1 f_sw
mkuser pgrp=fn_grp1 f_sqi
mkuser pgrp=fn_grp1 f_maint
mkuser pgrp=fn_grp1 f_open
```

Set their passwords by entering:

```
passwd f_sw
passwd f_sqi
passwd f_maint
```

```
passwd f_open  
passwd fnsw
```

Logoff as **root** user, and logon as each of the new users, one at a time, to change the password to avoid connection problems the first time they're used.

SOL**A Solaris Example**

If the instance owner group is `fn_grp1`, enter the following commands as a user with **root** privileges:

```
useradd -d /export/home/f_sw  
useradd -d /export/home/f_sqi  
useradd -d /export/home/f_maint  
useradd -d /export/home/f_open  
  
useradd -g fn_grp1 -G Staff  
  
useradd -s /bin/ksh -m f_sw  
useradd -s /bin/ksh -m f_sqi  
useradd -s /bin/ksh -m f_maint  
useradd -s /bin/ksh -m f_open
```

Logoff as **root** user, and logon as each of the four new users, one at a time, to change the password to avoid connection problems the first time they're used.

Install DB2 Client

To install DB2 Client, you must be logged on as a user with **root** privileges (UNIX servers) or with **Administrator** privileges (Windows servers).

- 1 Mount the CD-ROM.
- 2 As a user with **root** privileges on AIX and Solaris servers, create a temporary 2 GB file system. Then copy and uncompress the DB2 installation files in the file system.

Tip This temporary file system can be a mountable file system on another server.

- 3 Launch the DB2 Installer and make the following selections:
 - Install Products
 - DB2 Administration Client or DB2 Run-Time Client
 - Typical Installation
 - Create a 32-bit instance - (Since Image Services is a 32-bit application, you need to create a 32-bit instance of DB2 on UNIX platforms.)
 - Set existing user: fnsr (the name of the FileNet software user)
 - (Select installation directory/folder) - (Windows servers only.)
 - UN-check "Configure NetBIOS..." (It's not needed.)
 - Install

- 4 When the installation is finished, view the status report or go to /tmp (UNIX) or \My Documents\DB2log (Windows) to view all DB2 install logs to ensure there are no errors.

To Catalog the DB2 Server Node

Reboot the server and log onto the Image Services (DB2 Client) server as the instance owner, such as **fns**. You can catalog the DB2 server node using the db2ca tool or using the Command Line Processor as follows:

```
db2 catalog tcpip node <server alias> remote <server name>  
server <Tcpip port number of DB2 server instance>
```

For example:

```
db2 catalog tcpip node hplido remote hpvenice server 60004
```

To Catalog the Image Services Databases

You can create aliases for the DB2 database using the db2ca tool or using the Command Line Processor as follows.

For example:

```
db2 catalog database indexdb at node hplido [as <alias name>]
```

In this case, hplido is the database alias used in the connect statement to verify the connection between the DB2 client and the remote DB2 server. If you specify the 'as' clause, <alias name> is the db alias name. Otherwise the database name (indexdb) is the db alias name. When connecting to the database, you should use the db alias name.

Link to the DB2 Database

Since the DB2 database is located on a remote AIX or Solaris server, make sure that TCP/IP communications have been configured successfully on both server and client computers.

- 1 Use the DB2 Configuration Assistant (enter **db2ca** at a command prompt) to connect the DB Client to the DB2 database on the remote server.
- 2 After successfully connecting to the remote DB2 database, you can check the connection using the Command Line Processor (CLP). Launch the Command Line Processor and enter:

```
DB2> connect to <db_alias_name> user f_sw using <f_sw password>
```

Continue the Image Services Installation

After the DB2 software has been successfully installed, your service representative or ValueNet Partner can continue with the Image Services installation in *Chapter 4, "Installing the FileNet Image Services Software."* of the *Image Services Installation and Configuration Procedures* for your platform.

Notices

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