IBM® DB2 Universal Database™

Common Criteria Certification: Installing DB2 Universal Database Personal Edition

Version 8.2 Revision 07

SC09-7979-00

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Contents

Common Criteria certification of DB2 Universal Database products

For Version 8.2, DB2 Universal Database (DB2 UDB) products are certified according to the Common Criteria evaluation assurance level 4 (EAL4), augmented with Flaw remediation ALC_FLR.1. The following products are certified on the following operating systems:

Table 1. Certified DB2 Universal Database configurations

	Windows® 2000	**Linux SuSE Enterprise Server V8**	**AIX® 5.2**	**Solaris Operating Environment, 8**
Enterprise Server Edition **Note:** Single-partition environment only.	Yes (32-bit only)	Yes (32-bit only)	Yes (64-bit only)	Yes (64-bit only)
Workgroup Server Edition	Yes (32-bit only)	Yes (32-bit only)	Yes (64-bit only)	Yes (64-bit only)
Personal Edition	Yes (32-bit only)	Yes (32-bit only)	N/A	N/A
Express Edition	Yes (32-bit only)	Yes (32-bit only)	N/A	N/A

Notes:

1. DB2 UDB configurations on the Linux SuSE environment are Common Criteria certified on Intel-based hardware only.
2. In a Common Criteria certified DB2 UDB environment, DB2 UDB clients are supported on the following operating systems:
   - Windows 2000
   - Linux SuSE Enterprise Server V8
   - AIX 5.2
   - Solaris Operating Environment, 8

Only 32-bit clients are supported.

For more information about Common Criteria, see the Common Criteria web site at: http://niap.nist.gov/cc-scheme/.

For information about installing and configuring a DB2 UDB system that conforms to the Common Criteria EAL4, see the following books:

- *DB2 Universal Database Common Criteria Certification: Installing DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Workgroup Server Edition*
- *DB2 Universal Database Common Criteria Certification: Installing DB2 Universal Database Personal Edition*
- *DB2 Universal Database Common Criteria Certification: Installing DB2 Universal Database Express Edition*
- *DB2 Universal Database Common Criteria Certification: Administration and User Documentation*

These books are available in PDF format from the DB2 Information Management Library.

Supported interfaces for a Common Criteria evaluated configuration

The set of DB2 Universal Database interfaces that are used in the Common Criteria evaluation of DB2 Universal Database are as follows:

- The DB2 Universal Database install program
- The command line processor
- DB2 commands
- DB2 application programming interfaces (APIs)
- SQL statements

You can use these DB2 Universal Database interfaces when installing and configuring a Common Criteria compliant DB2 Universal Database system.

Other interfaces that are provided by DB2 Universal Database, such as the Control Center or Command Editor were not used during the Common Criteria evaluation of DB2 Universal Database, **and must not be used in the Common Criteria evaluation configuration.**

NOT FENCED routines are not supported.

In the Common Criteria evaluation configuration, the installation procedures as documented in the following sections must be followed and the configuration options selected must not be modified while in the evaluation configuration:

- "Installing DB2 Personal Edition on Windows 2000 for a Common Criteria compliant installation" on page 16
- "Installing DB2 Personal Edition on Linux SuSE for a Common Criteria compliant installation" on page 51

About This Book

This book describes how to install DB2 Universal Database Personal Edition for a Common Criteria evaluation. It includes detailed instructions on installing DB2 Universal Database Personal Edition on the following operating systems:

- Windows 2000
- Linux SuSE Enterprise Server V8

If you need to install other DB2 Universal Database (DB2 UDB) products for evaluation, refer to the following books:

- *DB2 Universal Database Common Criteria Certification: Installing DB2 Universal Database Enterprise Server Edition and DB2 Universal Database Workgroup Server Edition*
- *DB2 Universal Database Common Criteria Certification: Installing DB2 Universal Database Express Edition*

For information about security in a DB2 UDB environment, and for information on configuring DB2 UDB for the Common Criteria evaluation, refer to the following book:

- *DB2 Universal Database Common Criteria Certification: Administration and User Documentation*

Some topics in this book may link to topics that are not in any of the books listed above. Topics that are referenced outside of the Common Criteria certification documentation are for informational purposes only, and are not required for either installing or configuring a Common Criteria compliant environment.

Part 1. About DB2 Personal Edition

Chapter 1. DB2 Personal Edition product overview

DB2® Personal Edition is a single-user version of DB2. It can be used to create and manage local databases, or as a client to connect to DB2 database servers as well as DB2 Connect™ servers.

DB2 Personal Edition can also act as a satellite, remotely administered from a DB2 Enterprise Server Edition database server. For more information about using DB2 Personal Edition in a satellite environment, refer to the satellite administration documentation.

Note: Satellite environments are not evaluated for Common Criteria compliance.

Related reference:

- "DB2 Application Development Client" in the *Application Development Guide: Building and Running Applications*

Part 2. Installing DB2 Personal Edition

Chapter 2. Installing DB2 Personal Edition on Windows

Installation overview

Installing DB2 Personal Edition - overview (Windows)

This topic outlines steps for installing DB2 Personal Edition on Windows.

Procedure:

To install DB2 Personal Edition on Windows:

1. Review the DB2 Personal Edition prerequisites. Ensure that your computer meets:
   - Disk and memory, and installation requirements
   - User accounts for installation and setup of DB2 Personal Edition. You require one user account for installation and two user accounts for setup. The user accounts required for setup can be created before you install or you can have the DB2 Setup wizard create them for you. You may use the same user account to meet all of the requirements of DB2.

     Note: For a Common Criteria compliant installation, the user accounts are created before DB2 is installed.
   - If you are installing on Windows® 2000 or Windows Server 2003 and are planning to use Light Weight Directory Access Protocol (LDAP), you will extend the Windows 2000 or Windows Server 2003 directory schema so that it can contain DB2 object classes and attribute definitions.
2. Install DB2 Personal Edition using the DB2 Setup Wizard. DB2 Setup wizard features include:
   - A DB2 Setup Launchpad from which you can view installation notes, release notes, and learn about DB2 version 8 features
   - Typical, Compact, and Custom installation types. Installation choices presented to you depend on the type of installation you choose
   - Multiple languages installation support.
   - DB2 Administration Server setup (including DAS user setup)
   - Administration contact and health monitor notification setup
   - Instance setup and configuration (including instance user setup)
   - DB2 tools catalog and warehouse control database setup
   - Response file creation. You can save your installation choices in a response file for later installation or to duplicate the installation on another computer.
3. *Optional*: Install the DB2 Information Center

   Note: The DB2 Information Center is not supported in a Common Criteria compliant configuration.

Related concepts:

- "Installation methods for DB2 UDB (Windows and UNIX)" in the *Quick Beginnings for DB2 Servers*

Related tasks:

- "Starting the DB2 Setup wizard for DB2 Personal Edition (Windows)" on page 14
- "Installing the DB2 Information Center using the DB2 Setup wizard (Windows)" in the *Infrastructure Topics (DB2 Common Files)*

Related reference:

- "Installation requirements for DB2 Personal Edition (Windows)" on page 12

DB2 groups and users

Granting user rights (Windows)

This topic describes the steps required to grant user rights on Windows operating systems. Specific user rights are recommended for user accounts required to install and set up DB2.

Prerequisites:

To grant advanced user rights on Windows you must be logged on as a local Administrator.

Procedure:

Windows NT

1. Click **Start** and select **Programs —> Administrative Tools (Common) —> User Manager for Domains**.
2. In the User Manager window, select **Policies —> User Rights** from the menu bar.
3. In the User Rights Policy window, select the **Show Advanced User Rights** check box then in the **Right** drop down box, select the user right you want to grant. Click **Add**.
4. In the Add Users and Groups window select the user or the group you want to grant the right to and click **OK**.
5. In the User Rights Policy window, select the user or the group you have added from the **Grant To** list box and click **OK**.

Windows 2000, Windows XP, and Windows Server 2003

1. Click **Start** and select **Settings —> Control Panel —> Administrative Tools**.

   Note: On Windows XP and Windows Server 2003 computers, for some Windows Themes, this will be: **Settings —> Control Panel —> Performance and Maintenance —> Administrative Tools**.
2. Select **Local Security Policy**.
3. In the left window pane, expand the **Local Policies** object, then select **User Rights Assignment**.
4. In the right window pane, select the user right that you want to assign.
5. From the menu, select **Action** —> **Security...**
6. Click **Add**, then select a user or group to assign the right to, and click **Add**.
7. Click **OK**.

Note: If your computer belongs to a Windows 2000 or Windows Server 2003 domain, the domain user rights may override your local settings. In this case, your Network Administrator will have to make the changes to the user rights.

Related concepts:

- "User, user ID and group naming rules" in the *Administration Guide: Implementation*

Related tasks:

- "Installing DB2 Personal Edition - overview (Windows)" on page 7

Related reference:

- "Required user accounts for installation of DB2 servers (Windows)" on page 9

DB2 UDB system administrator group (Windows)

By default, system administrative (SYSADM) authority is granted to any valid DB2® user account that belongs to the Administrators group on the computer where the account is defined. If the account is a local account, then it must belong to the local Administrators group. If the account is a domain account, then it must belong to the Administrators group at the domain controller.

For example, if a user logs on to a domain account and tries to access a DB2 database, DB2 goes to a domain controller to enumerate groups (including the Administrators group). You can force DB2 to always perform group lookup on the local computer by setting the registry variable `DB2_GRP_LOOKUP=local` and adding the domain accounts (or global groups) to the local group.

For a domain user to have SYSADM authority, it must belong to the Administrators group on the domain controller. Since DB2 always performs authorization at the machine where the account is defined, adding a domain user to the local Administrators group on the server does not grant the domain user SYSADM authority to this group.

To avoid adding a domain user to the Administrators group at the domain controller, create a global group and add the domain users to which you want to grant SYSADM authority to it, and then update the DB2 configuration parameter SYSADM_GROUP with the name of the global group. To do so, enter the following commands:

```
db2stop
db2 update dbm cfg using sysadm_group global_group
db2start
```

Related tasks:

- "Installing DB2 Personal Edition - overview (Windows)" on page 7

Required user accounts for installation of DB2 servers (Windows)

If you are installing on Windows NT, Windows 2000, Windows XP, or Windows Server 2003, you require the following DB2 server user accounts:

- an installation user account and
- one or more setup user accounts
  - a DB2 Administration Server (DAS) user account

– a DB2 instance user account.

The installation user account must be defined prior to running the DB2 Setup wizard. The setup user accounts can be defined prior to installation or you can have the DB2 Setup program create them for you.

Note: In a Common Criteria compliant installation, the user accounts are created before DB2 is installed.

All user account names must adhere to your system naming rules and to DB2 naming rules.

DB2 enhanced security on Windows:

DB2 now offers enhanced Windows security. You can install DB2 with a user ID, but unless that user ID belongs to either the DB2ADMNS or DB2USERS group, that user ID won't be able to run any DB2 commands.

The DB2 installer creates these two new groups. You can either use a new name or accept the default names.

To enable this security feature, select the Enable operating system security check box on the Enable operating system security for DB2 object panel during the installation of DB2. Accept the default values for the DB2 Administrators Group field, and the DB2 Users Group field. The default group names are DB2ADMNS and DB2USERS. If there is a conflict with existing group names, you will be prompted to change the group names. If required, you can specify your own values.

Note: In a Common Criteria compliant installation of DB2, these groups are not used.

DB2 server user accounts:

Installation user account

A local or domain user account is required to perform the installation. The user account must belong to the *Administrators* group on the machine where you will perform the installation.

For domain accounts, to verify userIDs on the DB2 server, the installation userID must belong to the Domain Administrators group on the domain where the accounts are going to be created.

You may also use the built-in LocalSystem account to run the installation for all products except DB2 UDB Enterprise Server Edition.

DB2 Administration Server (DAS) user account

A local or domain user account is required for the DB2 Administration Server (DAS).

If you are performing a response file installation, you can also specify the Local System Account in the response file. For more details, refer to the sample response files in the db2\windows\samples directory.

The DB2 Administration Server (DAS) is a special DB2 administration service used to support the GUI tools and assist with administration tasks on local and remote DB2 servers. The DAS has an assigned user account that is used to log the DAS service on to the computer when the DAS service is started.

You can create the DAS user account before installing DB2 or you can have the DB2 Setup wizard create it for you. If you want to have the DB2 Setup wizard create a new domain user account, the user account you use to perform the installation must have authority to create domain user accounts. The user account must belong to the *Administrators* group on the machine where you will perform the installation. This account will be granted the following user rights:

Note: In a Common Criteria compliant installation of DB2, the DAS user account is created before DB2 is installed.

- Act as part of the operating system
- Debug programs
- Create token object
- Lock pages in memory
- Log on as a service
- Increase quotas
- Replace a process level token

The Lock pages in memory privilege is required for AWE (Advanced Windowing Extensions) support. The ″Debug programs″ privilege is only needed when DB2 group lookup is explicitly specified to use the access token.

If the user account is created by the install program, the user account will be granted these privileges and if the user account already exists, this account will also be granted these privileges. If the install grants the privileges, some of them will only be effective on first log-on by the account that was granted the privileges or reboot.

It is recommended that the DAS user have SYSADM authority on each of the DB2 systems within your environment so that it can start or stop other instances if required. By default, any user that is part of the *Administrator* group has SYSADM authority.

DB2 instance user account

A local or domain user account is required for the DB2 instance. Every DB2 instance has one user that is assigned when the instance is created. DB2 logs on with this user name when the instance is started.

You may also use the built-in LocalSystem account to run the installation for all products except DB2 UDB Enterprise Server Edition.

You can create the DB2 instance user account before installing DB2 or you can have the DB2 Setup wizard create it for you. If you want to have the DB2 Setup wizard create a new domain user account, the user account you use to perform the installation must have authority to create domain user accounts. The user account must belong to the *Administrators* group on the machine where you will perform the installation. This account will be granted the following user rights:

Note: In a Common Criteria compliant installation of DB2, the instance user account is created before DB2 is installed.

- Act as part of the operating system
- Debug programs
- Create token object
- Increase quotas

- Lock pages in memory
- Log on as a service
- Replace a process level token

The Lock pages in memory privilege is required for AWE (Advanced Windowing Extensions) support. The ″Debug programs″ privilege is only needed when DB2 group lookup is explicitly specified to use the access token.

If the user account is created by the install program, the user account will be granted these privileges and if the user account already exists, this account will also be granted these privileges. If the install grants the privileges, some of them will only be effective on first log-on by the account that was granted the privileges or reboot.

Related concepts:

- "User, user ID and group naming rules" in the *Administration Guide: Implementation*

Related tasks:

- "Single-partition installation (Windows)" in the *Quick Beginnings for DB2 Servers*
- "Partitioned installation (Windows)" in the *Quick Beginnings for DB2 Servers*

Installation requirements

Installation requirements for DB2 Personal Edition (Windows)

To install DB2 Personal Edition, the following operating system, software, and communications requirements must be met:

Operating system requirements

One of:

- Windows ME
- Windows NT Version 4 with Service Pack 6a or later
- Windows 2000

  Note: DB2 Personal Edition is only Common Criteria certified on Windows 2000.
- Windows XP (32–bit or 64–bit)
- Windows Server 2003 (32–bit or 64–bit)

Windows XP (64–bit) and Windows Server 2003 (64–bit) support:

- local 32–bit applications
- 32–bit UDFs and stored procedures

Hardware requirements

For DB2 products running on Intel and AMD systems, a Pentium or Athlon CPU is required.

Software requirements

- MDAC 2.7 is required. The DB2 Setup wizard will install MDAC 2.7 if it is not already installed.

- MDAC 2.7 is required. The DB2 Setup wizard will install MDAC 2.7 if it is not already installed.
- You require the appropriate SDK to use Java-based tools like the DB2 Control Center, and to create and run Java applications, including stored procedures and user-defined functions. If the SDK is required by some component being installed, and the SDK is not already installed, the SDK will be installed if you use either the DB2 Setup wizard or a response file to install the product. The SDK is not installed with the DB2 Run-Time client. The SDK requirements are:
  - Windows 32–bit: SDK 1.3.1 or SDK 1.4.1 Service Release 1
  - Windows 64–bit: SDK 1.4.1 Service Release 1

  For the most up-to-date SDK information, see http://www.ibm.com/software/data/db2/udb/sysreqs.html.
- A browser is required to view online help.

Communication requirements

- To connect to a remote database, you can use TCP/IP, NETBIOS, and NPIPE. To remotely administer a version 8 DB2 database, you must connect using TCP/IP.

  Note: In a Common Criteria compliant environment, only TCP/IP is supported.
- If you plan to use LDAP (Lightweight Directory Access Protocol), you require either a Microsoft LDAP client or an IBM SecureWay LDAP client V3.2.1 or later.
- Connections from 64-bit clients to downlevel 32-bit servers are not supported.
- Connections from downlevel 32-bit clients to 64-bit servers only support SQL requests.
- DB2 Version 8 Windows 64-bit servers support connections from DB2 Version 6 and Version 7 32-bit clients only for SQL requests. Connections from Version 7 64-bit clients are not supported.

Related tasks:

- "Installing DB2 Personal Edition - overview (Windows)" on page 7

Related reference:

- "IBM Software Development Kit for Java levels for DB2 UDB (Windows and UNIX)" in the *Quick Beginnings for DB2 Servers*

Disk and memory requirements (Windows and UNIX)

Disk requirements:

The disk space required for your product depends on the type of installation you choose and the type of file system you have. The DB2 Setup wizard provides dynamic size estimates based on the components selected during a typical, compact, or custom installation.

On Windows, you might require significantly more space on FAT (File Allocation Table) drives with large cluster sizes than with NTFS (New Technology File System) drives.

Remember to include disk space for required software, communication products, and documentation.

Memory requirements:

At a minimum, DB2 UDB requires 256 MB of RAM. 512MB of RAM memory is recommended if you use the GUI tools. When determining memory requirements, be aware of the following:

- For DB2 client support, these memory requirements are for a base of 5 concurrent client connections. You will need an additional 16 MB of RAM per 5 client connections.
- Additional memory is required for other software that is running on your system.
- Additional memory might be required to improve the performance of the DB2 GUI tools.
- Specific performance requirements can determine the amount of memory needed.
- Memory requirements are affected by the size and complexity of your database system.
- Memory requirements are affected by the extent of database activity and the number of clients accessing your system.
- On Linux, a SWAP space of at least twice as large as your RAM is recommended, but not required.

Starting the DB2 Setup wizard for DB2 Personal Edition (Windows)

This task describes how to start the DB2 Setup wizard on Windows. You will use the DB2 Setup wizard to define your installation and install DB2 to your system.

Prerequisites:

Before you start the DB2 Setup wizard:

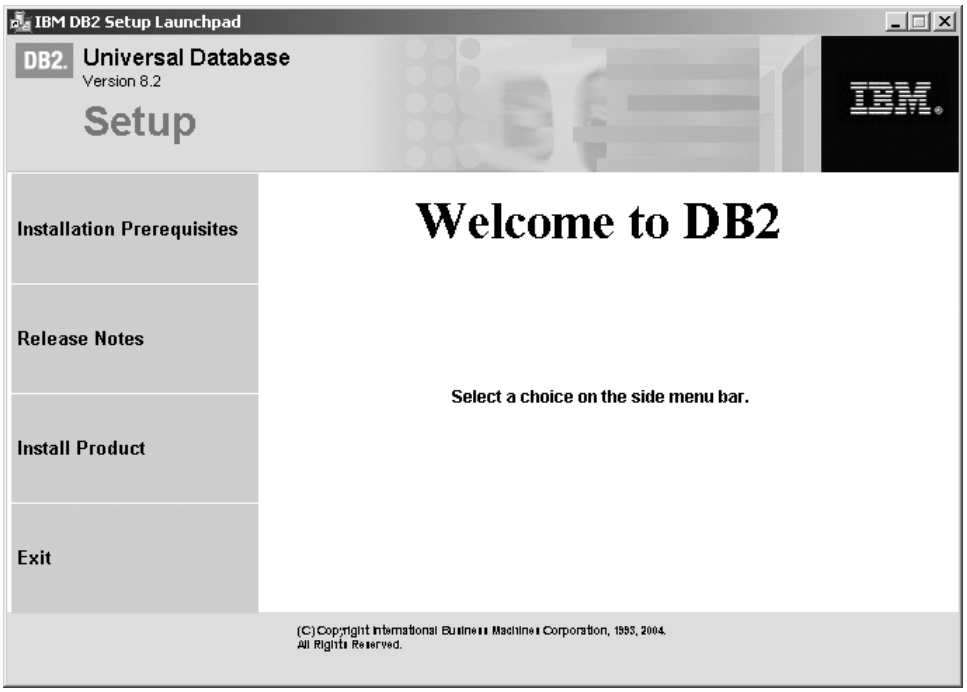
- Ensure that your system meets installation, memory, and disk requirements.
- If you are planning to use LDAP on Windows 2000 or Windows Server 2003, you must extend the directory schema before you install.
- You must have an account with local administrative privileges and the recommended user rights to perform the installation.

Procedure:

To start the DB2 Setup wizard:

1. Log on to the system with the Administrator account that you have defined for DB2 installation.
2. Close all programs so the installation program can update files as required.

3. Insert the CD-ROM into the drive. If enabled, the auto-run feature automatically starts the DB2 Setup launchpad:



From this window, you can view installation prerequisites and the release notes, or you can proceed directly to the installation. You may want to review the installation prerequisites and release notes for late-breaking information. Select **Install Products** and select the DB2 product to install.

4. The DB2 Setup wizard will determine the system language, and launch the setup program for that language. If you want to run the setup program in a different language, or the setup program failed to auto-start, you can start the DB2 Setup wizard manually. The syntax for starting the DB2 Setup wizard is described at the end of this procedure.
5. Once you have initiated the installation, proceed by following the setup program's prompts. Online help is available to guide you through the remaining steps. To invoke the online help, click Help or press F1. You can click **Cancel** at any time to end the installation. DB2 files will only be copied to your system once you have clicked **Finish** on the last DB2 Setup wizard installation panel.

For information on errors encountered during installation, see the db2.log and db2wi.log files located in the 'My Documents'\DB2LOG\ directory. The location of the 'My Documents' directory will depend on the settings on your computer.

The db2wi.log file captures the most recent DB2 installation information. The db2.log captures the history of DB2 installations.

You can specify the path of the log file using the `/l` switch.

To start the DB2 Setup wizard manually:

1. Click **Start** and select the **Run** option.
2. In the **Open** field, enter the following command:

```
x:\setup /i language
```

where:

- *x:* represents your CD-ROM drive
- *language* is the territory identifier for your language (for example, EN for English).

The `/i language` parameter is optional. If it is not specified, the DB2 Setup wizard will run in the same language as your operating system.

3. Click **OK**.

If you want your DB2 product to have access to DB2 documentation either on your local computer or on another computer on your network, then you must install the DB2 Information Center. The DB2 Information Center contains documentation for DB2 Universal Database and DB2 related products.

Note: The DB2 Information Center was not evaluated in the Common Criteria certification of DB2 Universal Database. If you are installing DB2 Universal Database to be Common Criteria compliant, do not install the DB2 Information Center.

Related concepts:

- "DB2 Information Center" in the *Infrastructure Topics (DB2 Common Files)*
- "DB2 Information Center installation scenarios" in the *Infrastructure Topics (DB2 Common Files)*

Related tasks:

- "Extending the directory schema (Windows)" in the *Quick Beginnings for DB2 Personal Edition*
- "Installing the DB2 Information Center using the DB2 Setup wizard (Windows)" in the *Infrastructure Topics (DB2 Common Files)*

Related reference:

- "Installation requirements for DB2 Personal Edition (Windows)" on page 12
- "setup - Install DB2 Command" in the *Command Reference*

Installing DB2 Personal Edition on Windows 2000 for a Common Criteria compliant installation

This task provides detailed instructions on installing DB2 UDB Personal Edition on Windows 2000 for a Common Criteria compliant installation.

Prerequisites:

- Windows 2000 must be configured to disable remote access services (such as terminal server and filesystem shares) before DB2 Universal Database is installed. For information on performing this task, refer to the operating system documentation.
- The computer on which you install DB2 Universal Database must be physically protected from untrusted users.
- Windows 2000 must be installed on the computer.
- The domain, user name, and password for the DB2 Administration Server user, and the DB2 instance user. If you do not have these values, obtain them from the system administrator. For more information, see "Required user accounts for installation of DB2 servers (Windows)" on page 9.

- The ″IBM DB2 Setup Launchpad″ should be open.

Procedure:

This task provides detailed instructions on installing DB2 UDB Personal Edition on Windows 2000 for a Common Criteria compliant installation.

1. From the ″IBM DB2 Setup Launchpad″, select **Install Product**.

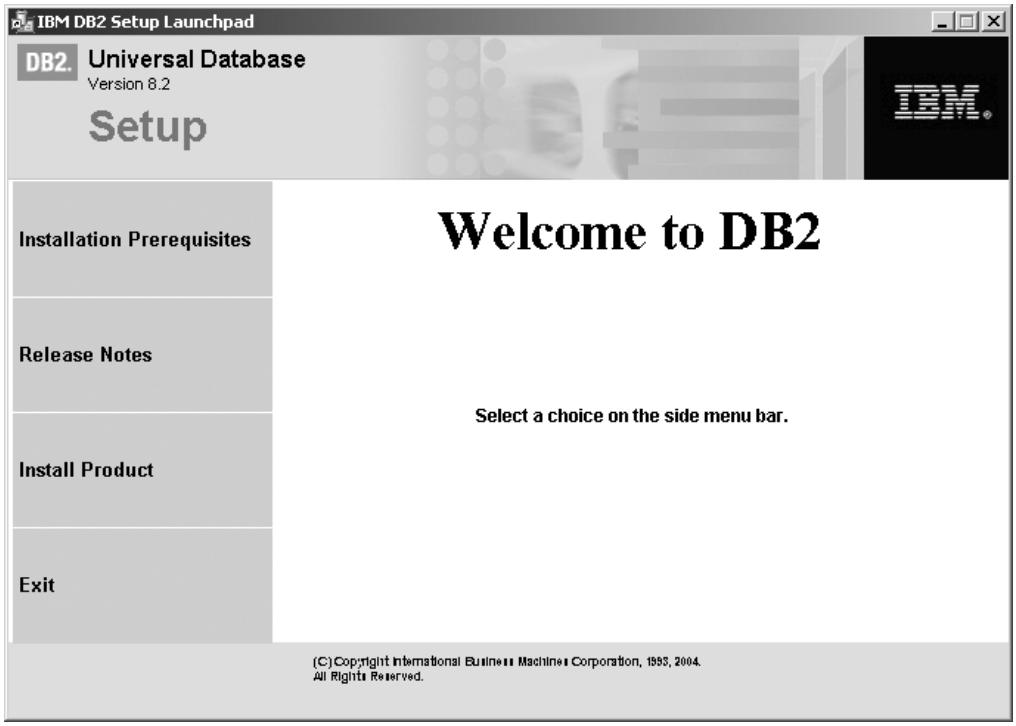


Figure 1. DB2 Personal Edition Launchpad (Windows)

2. On the second page of the ″IBM Setup Launchpad″, ensure that the **DB2 UDB Personal Edition** radio button is selected, as follows:

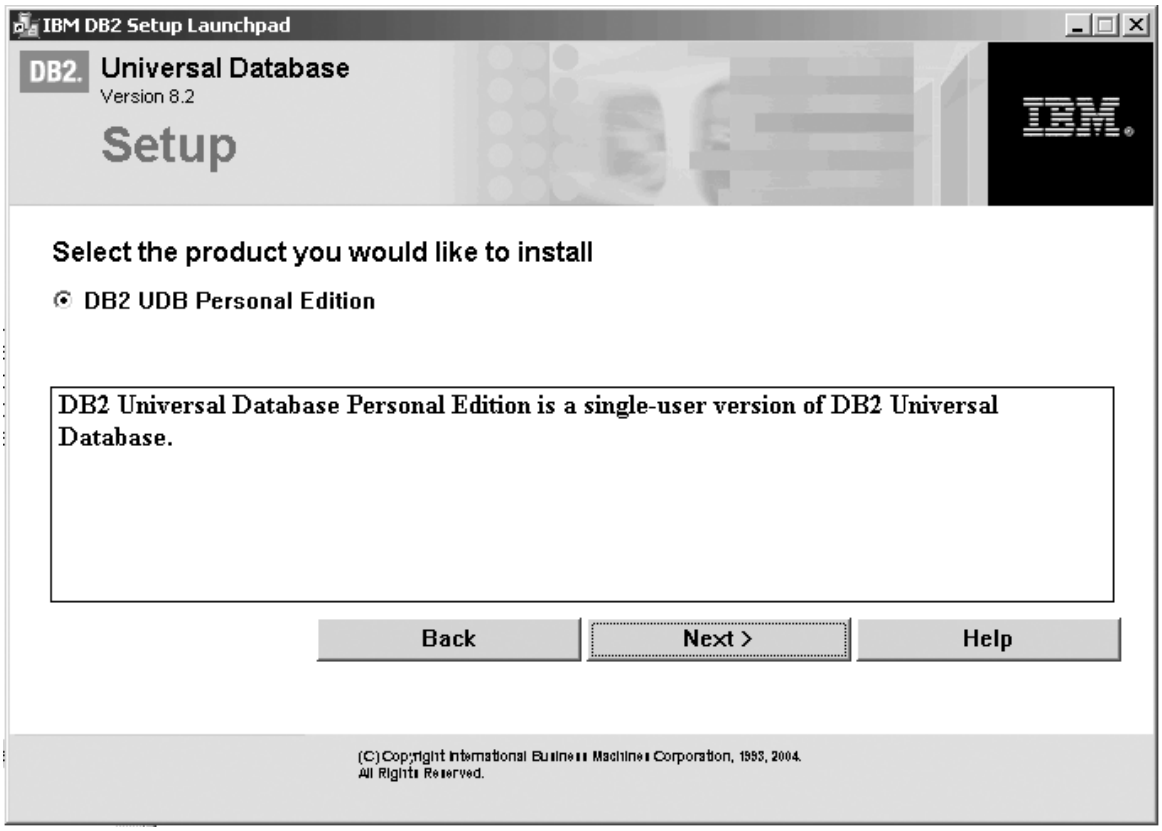


Figure 2. IBM DB2 Setup Launchpad

3. Click **Next**. In a few moments, the "DB2 Setup wizard" opens, as follows:

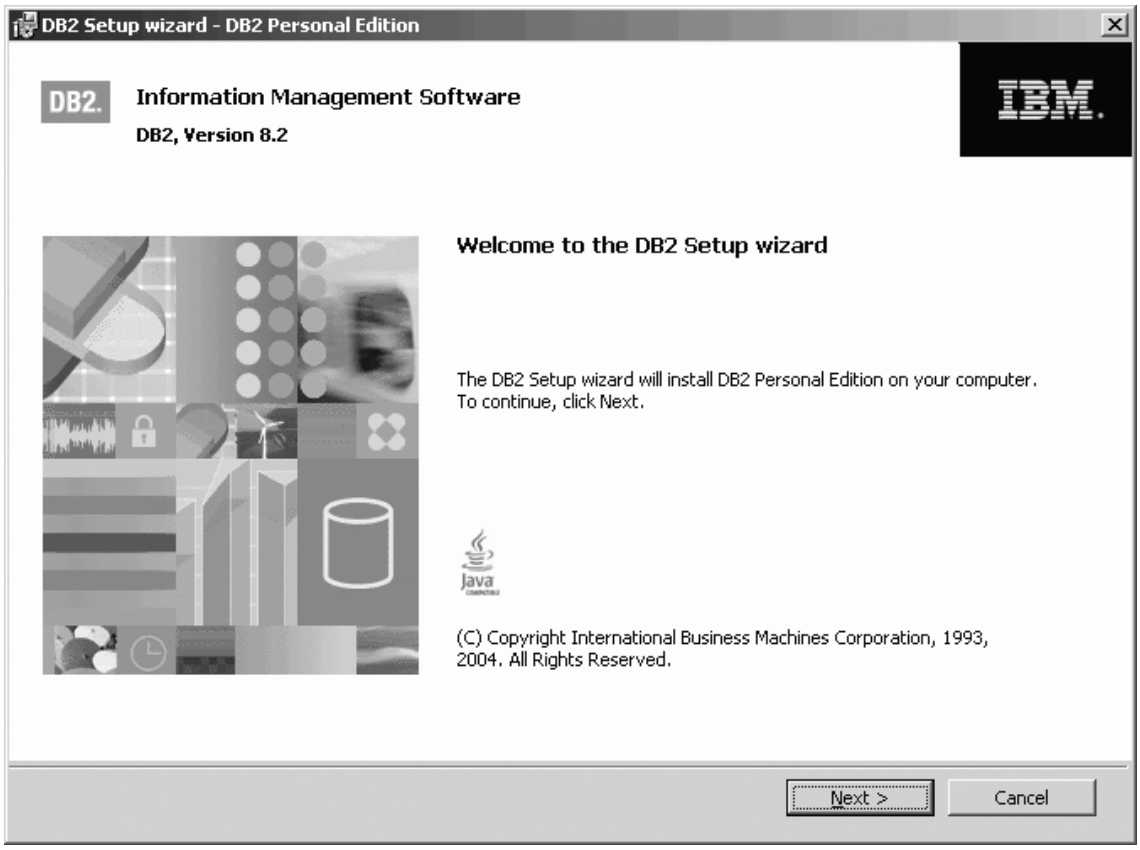


Figure 3. DB2 Setup wizard

4. Click **Next**. The "License Agreement" page opens.
5. On the "License Agreement" page:
   a. Select the **I accept the terms in the license agreement** radio button:

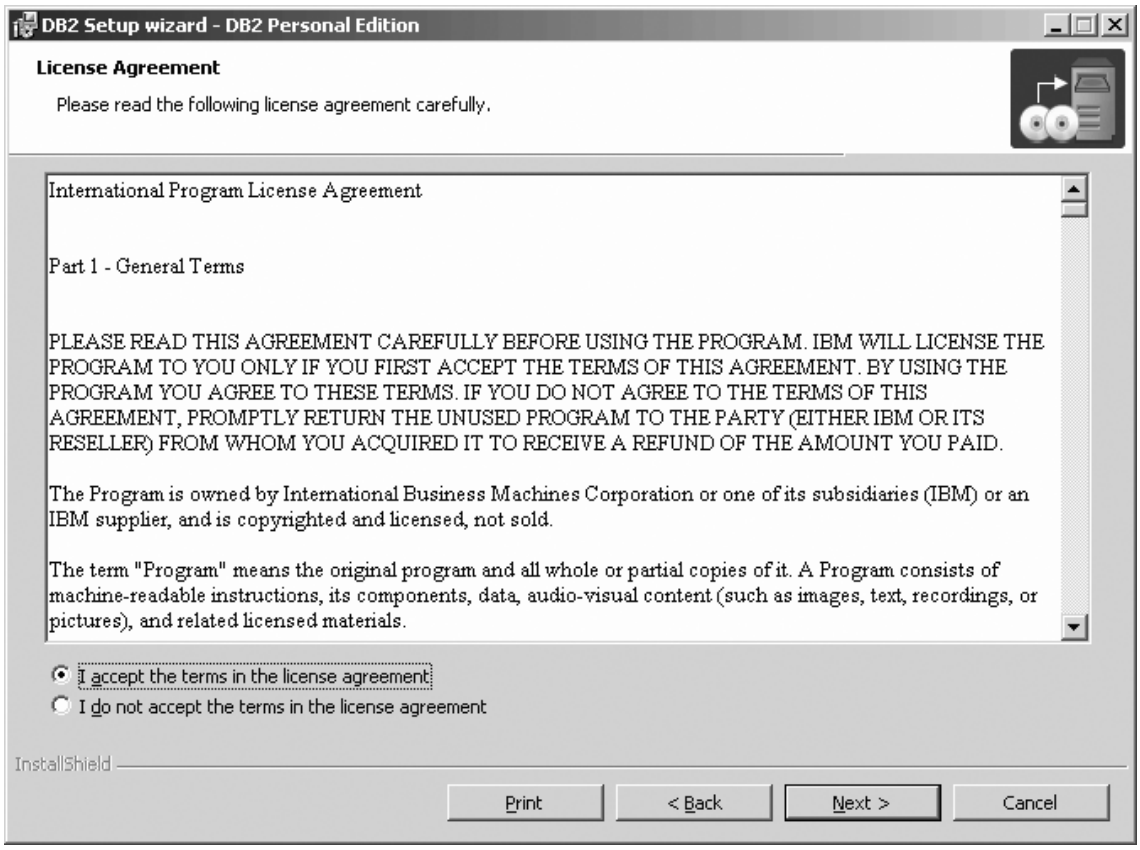


Figure 4. DB2 Setup wizard - Licence Agreement page

b. Click **Next**. The ″Select the installation type″ page opens.

6. On the ″Select the installation type″ page:
   a. Select the **Custom** radio button:

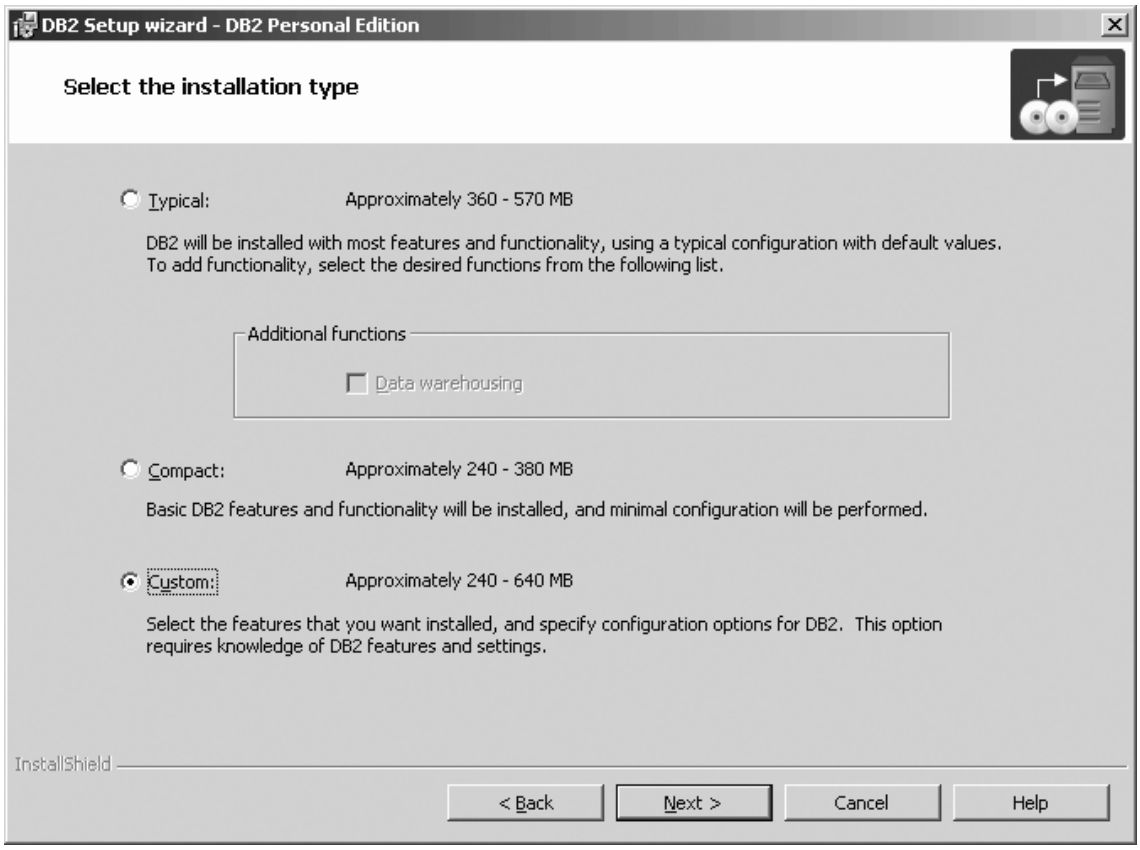


Figure 5. DB2 Setup wizard - Select the installation type page

b. Click **Next**. The "Select the installation action" page opens.

7. On the "Select the installation action" page:
   a. Select the **Install DB2 Personal Edition on this computer** check box.

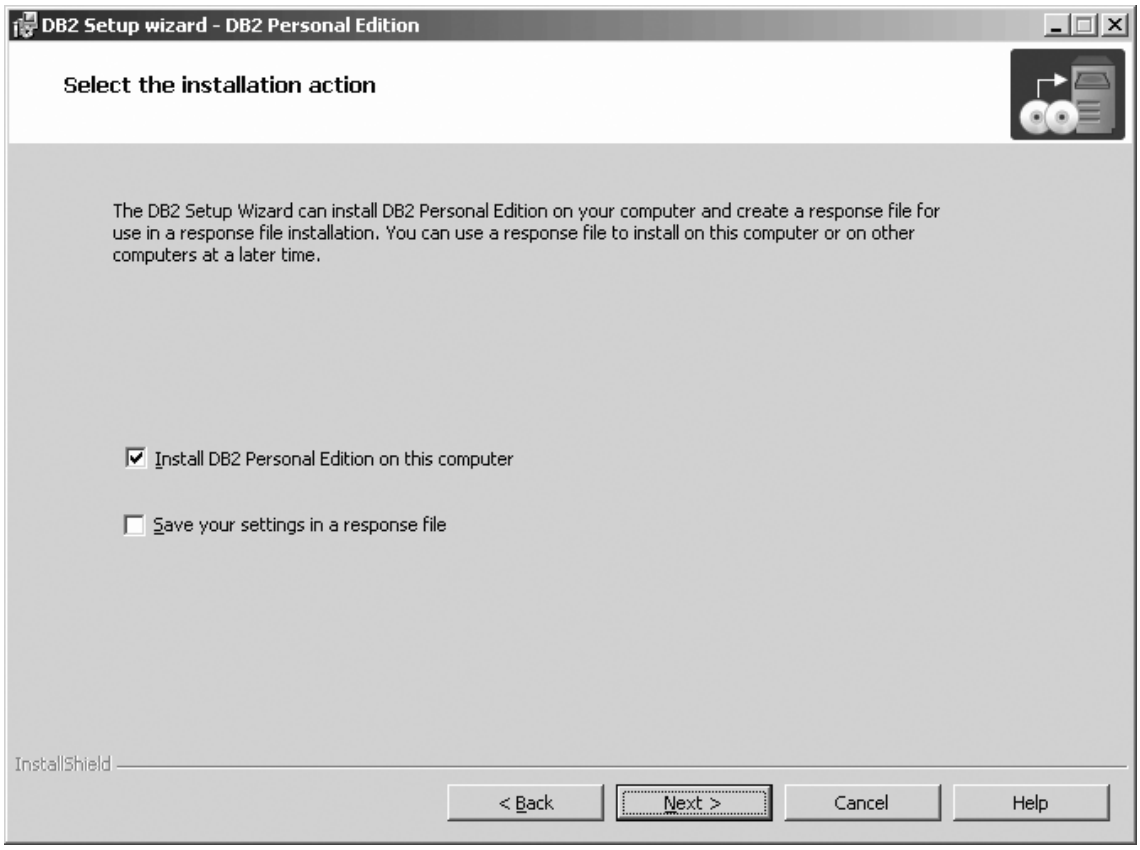


Figure 6. DB2 Setup wizard - Select the installation action page

b. Click **Next**. The ″Select the features you want to install″ page opens.

8. On the ″Select the features you want to install″ page:
   a. Open the **+** beside the **Application Development tools** option.
   b. Select the **Warehouse Samples** option, and left click. Select **This feature will not be available** from the pop-up menu to deselect the **Warehouse Samples** option. Performing this action prevents the **Warehouse Samples** option from being installed.

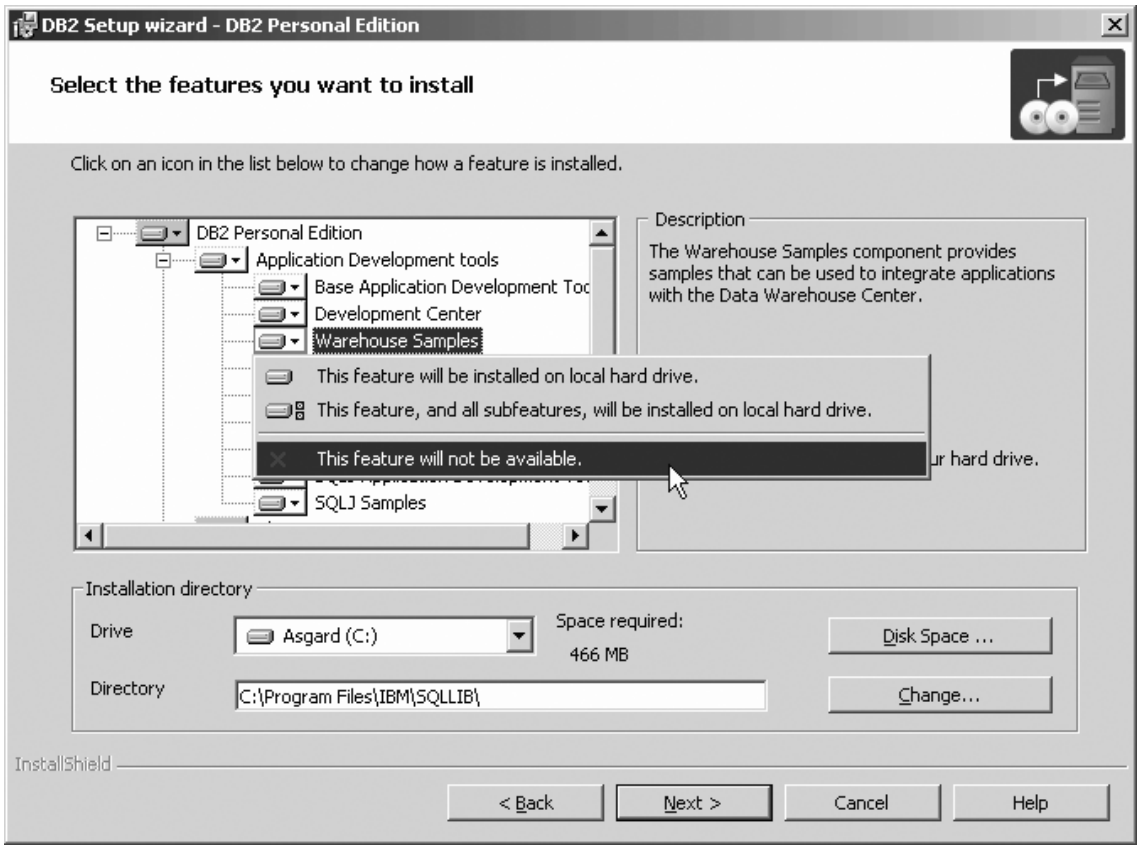


Figure 7. DB2 Setup wizard - Select the features you want to install page; Warehouse Samples option deselected for installation

c. Open the **+** beside the **Client support** option.

d. Open the **+** beside the **Communication protocols** option.

e. Select the **APPC** option and left click. Select **This feature will not be available** from the pop-up menu. Use the **This feature will not be available** option of the pop-up menu to also deselect the **NetBIOS** and **Named Pipes** options. These protocols are not supported in a Common Criteria compliant environment.

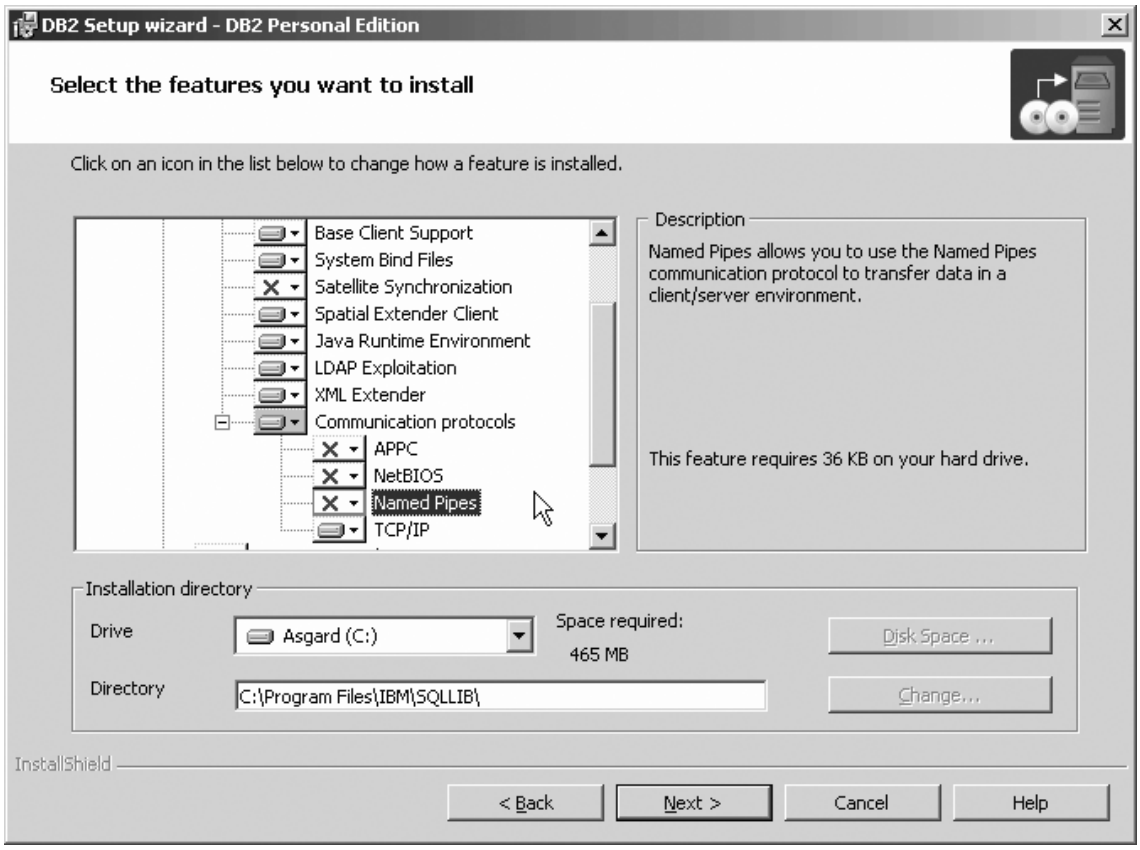


Figure 8. DB2 Setup wizard - Select the features you want to install page; APPC, NetBIOS, and Named Pipes options deselected for installation

Note: TCP/IP is supported in a Common Criteria compliant environment. Do *not* deselect the **TCP/IP** option.

f. Open the **+** beside the **Getting started** option.

g. Select the **First Steps** option, and left click. Select **This feature will not be available** from the pop-up menu. Performing this action prevents the **First Steps** option from being installed.

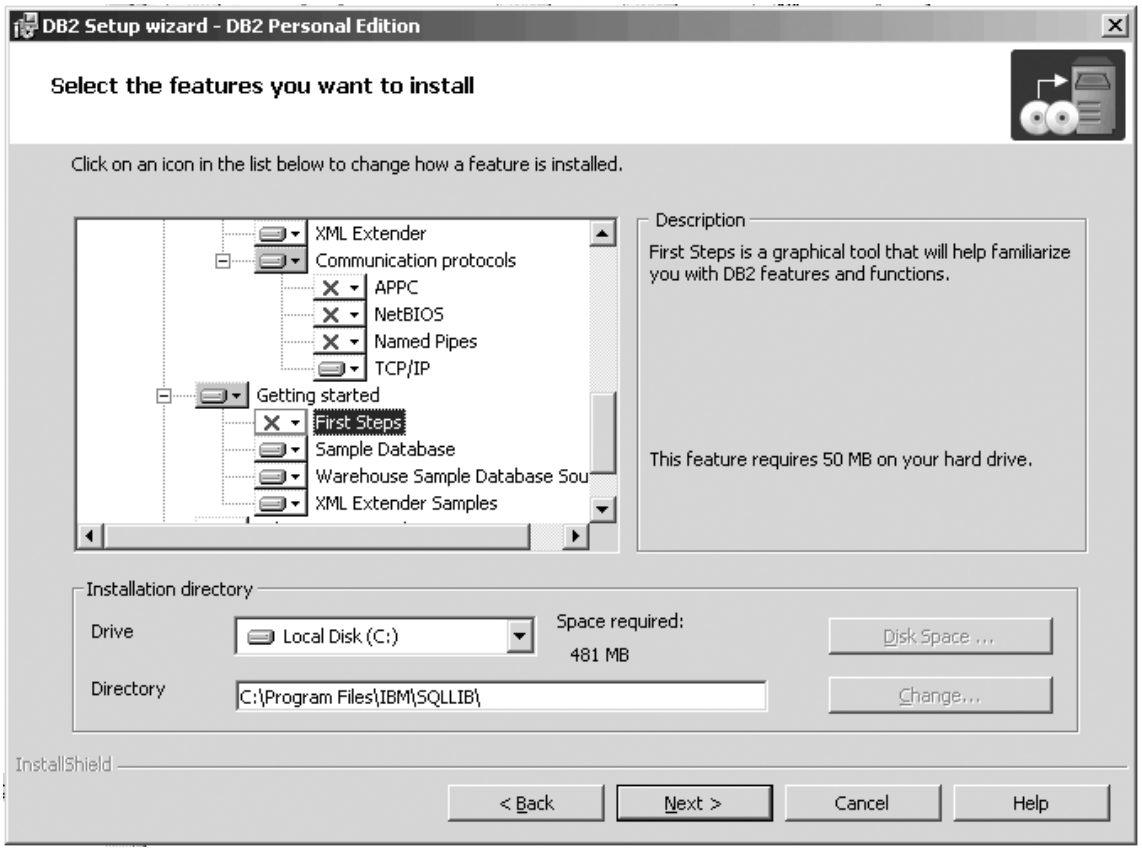


Figure 9. DB2 Setup wizard - Select the features you want to install page; First Steps option deselected for installation

h. Select the **Administration tools** option and left click. Select **This feature will not be available** from the pop-up menu to deselect the **Administration tools** option.

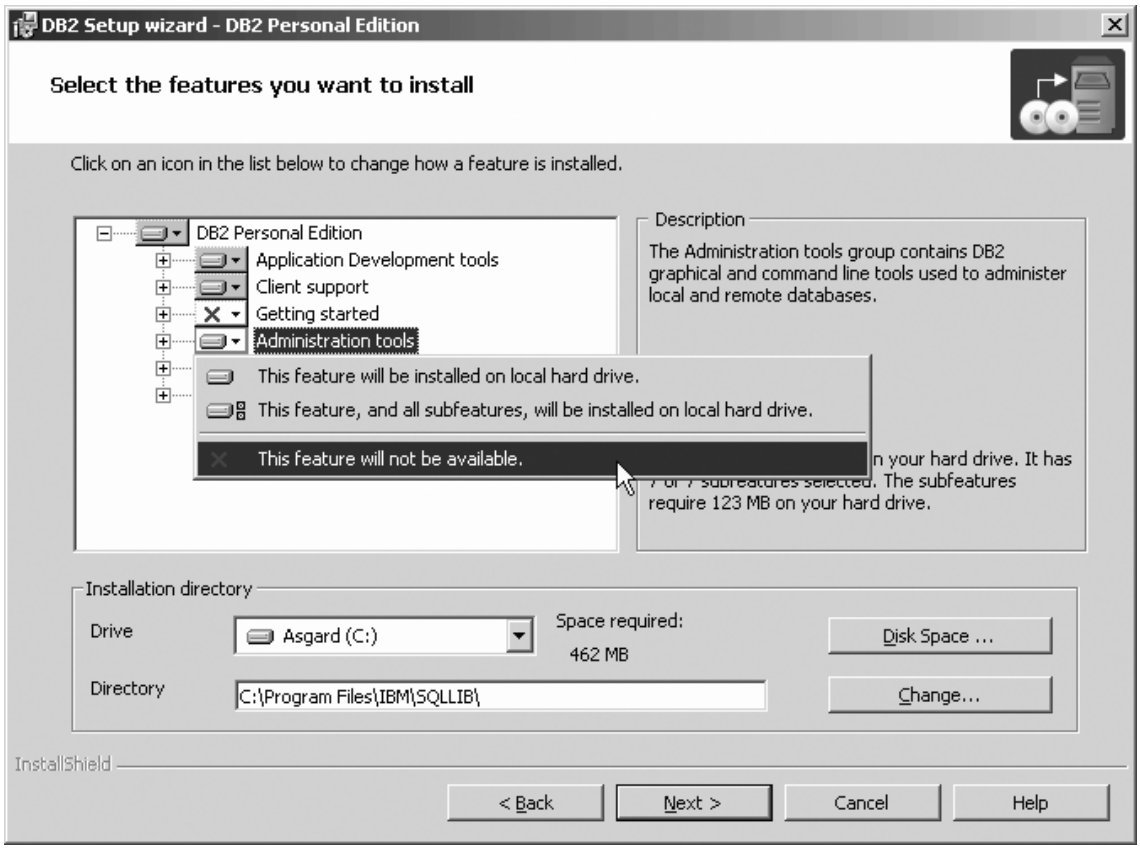


Figure 10. DB2 Setup wizard - Select the features you want to install page; Administration tools option deselected for installation

i. Open the **+** beside the **Server support** option.

j. Select the **Apply** option and left click. Select **This feature will not be available** from the pop-up menu to deselect the **Apply** option. Also ensure that the following options under **Server support** are deselected for installation:
   - **Apply**
   - **Capture**
   - **Informix data source support**

   After the **Server support** options are deselected, open the **+** beside the **Communications protocols** options and deselect the **NetBIOS Listener** option and the **Named pipes listener** option.

   Note: Do *not* deselect the **TCP/IP listener** option.

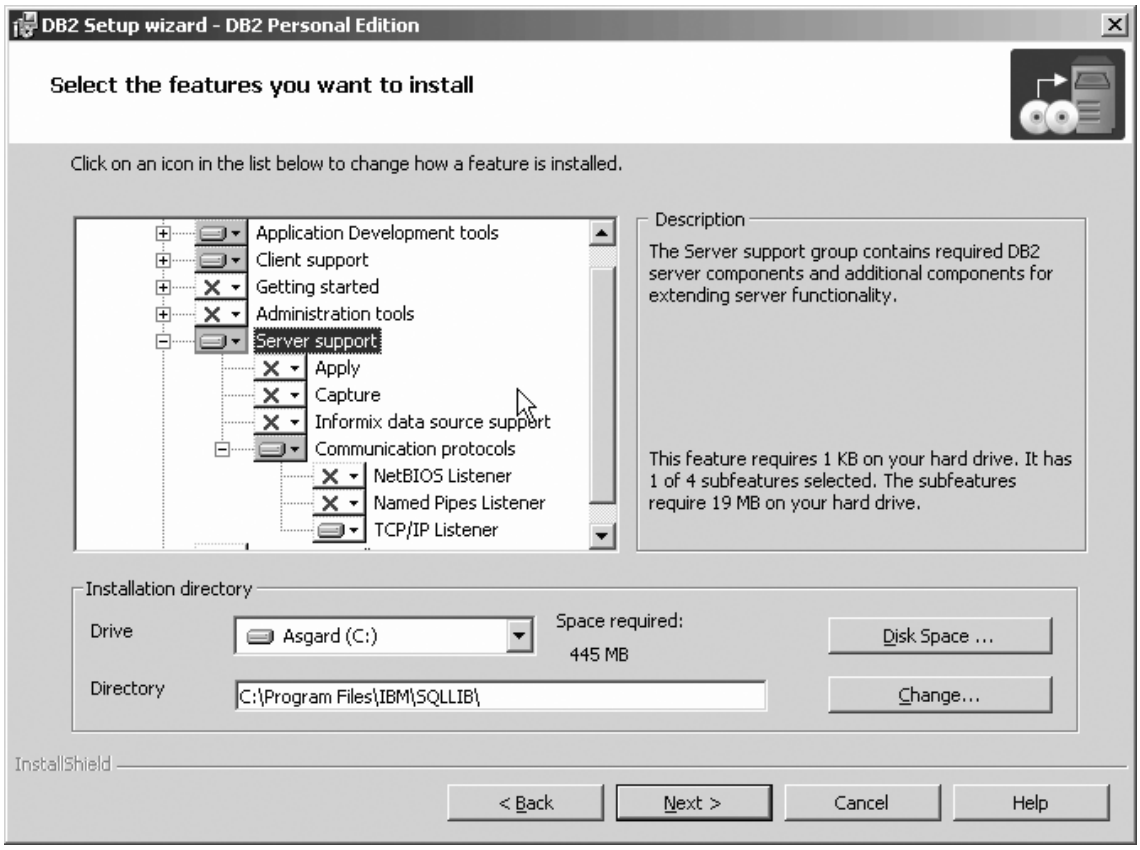


Figure 11. DB2 Setup wizard - Select the features you want to install page; all options except TCP/IP Listener deselected for installation

k. Select the **Business Intelligence** option and left click. Select **This feature will not be available** from the pop-up menu to deselect the **Business Intelligence** option.

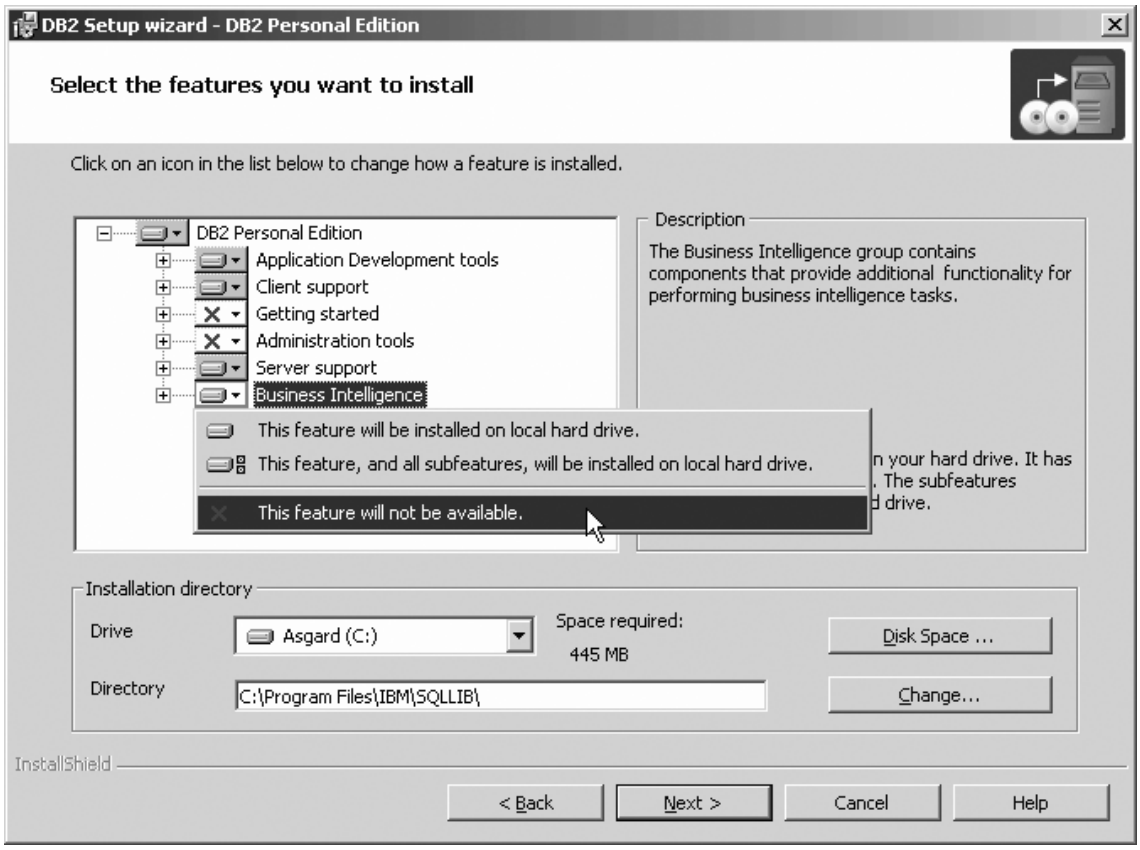


Figure 12. DB2 Setup wizard - Select the features you want to install page; Business Intelligence option deselected for installation

l. Click **Next**. The "Select the languages to install" page opens.

9. On the "Select the languages to install" page, English is the only language support that is installed by default.

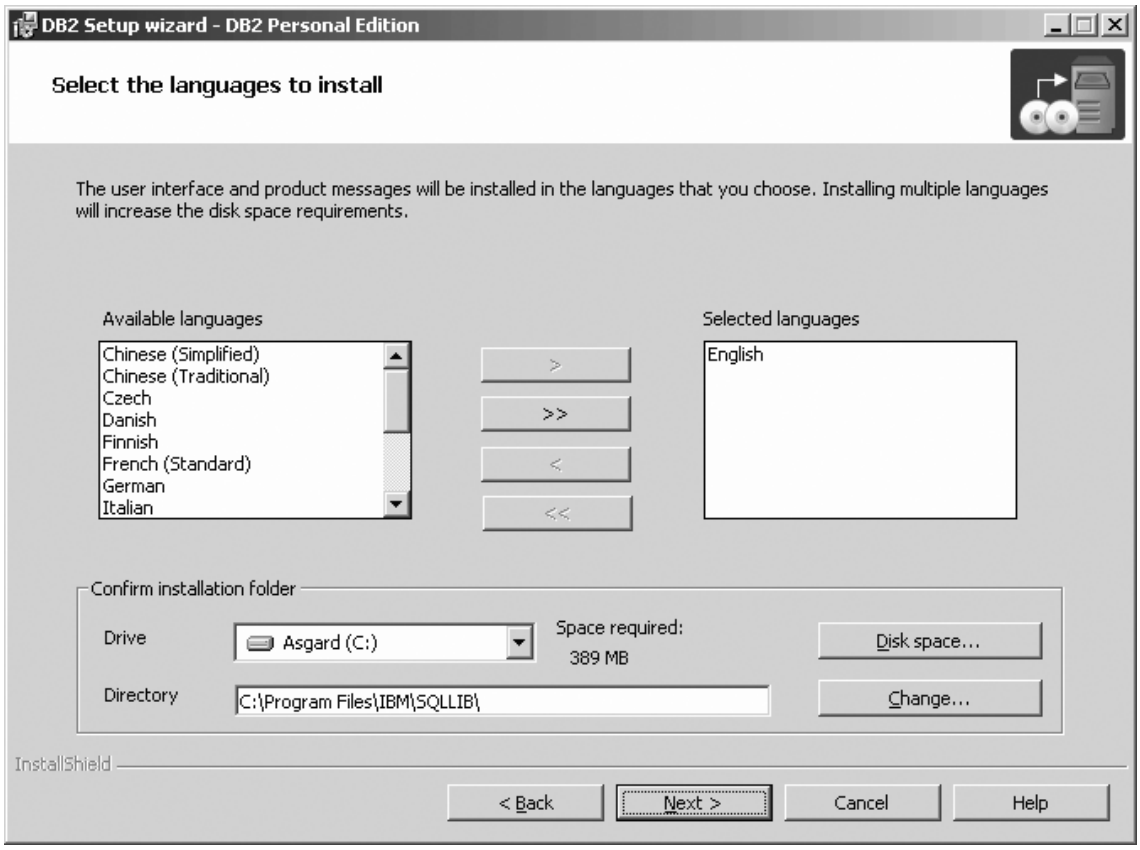


Figure 13. DB2 Setup wizard - Select the languages to install page; English language support selected for installation

Do one of the following:

- If you do not need to install any languages other than English, click **Next**. The "Specify the location of the DB2 Information Center" page opens.
- If you need to install language support other than English, select the language you want from the **Available languages** box, and click **>** to move it to the **Selected languages** box. Repeat this procedure for every language that you need to install. When you have selected all the languages that you require, click **Next**. The "Specify the location of the DB2 Information Center" page opens.

10. On the "Specify the location of the DB2 Information Center" page:
    a. Ensure that the **On the IBM Web site** radio button is selected.

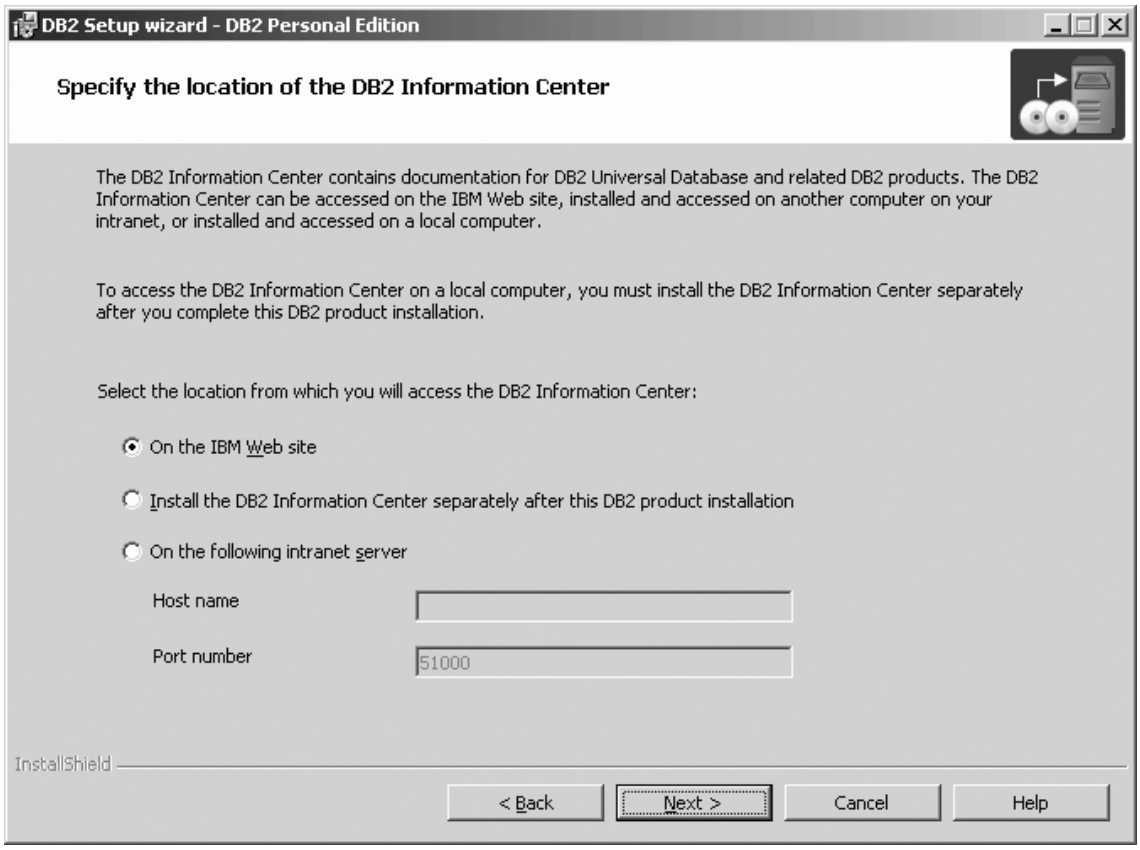


Figure 14. DB2 Setup wizard - Specify the location of the DB2 Information Center; On the IBM Web site option selected

b. Click **Next**. The "Set user information for the DB2 Administration Server" page opens.

11. On the "Set user information for the DB2 Administration Server" page:
    a. Select the domain of the user from the **Domain** drop-down list.
    b. Type the user name for the DB2 Administration Server in the **User name** field.
    c. Type the password for the user in the **Password** field.
    d. Type the password again in the **Confirm password** field.
    e. Ensure that the **Use the same user name and password for the remaining DB2 services** check box is not selected.

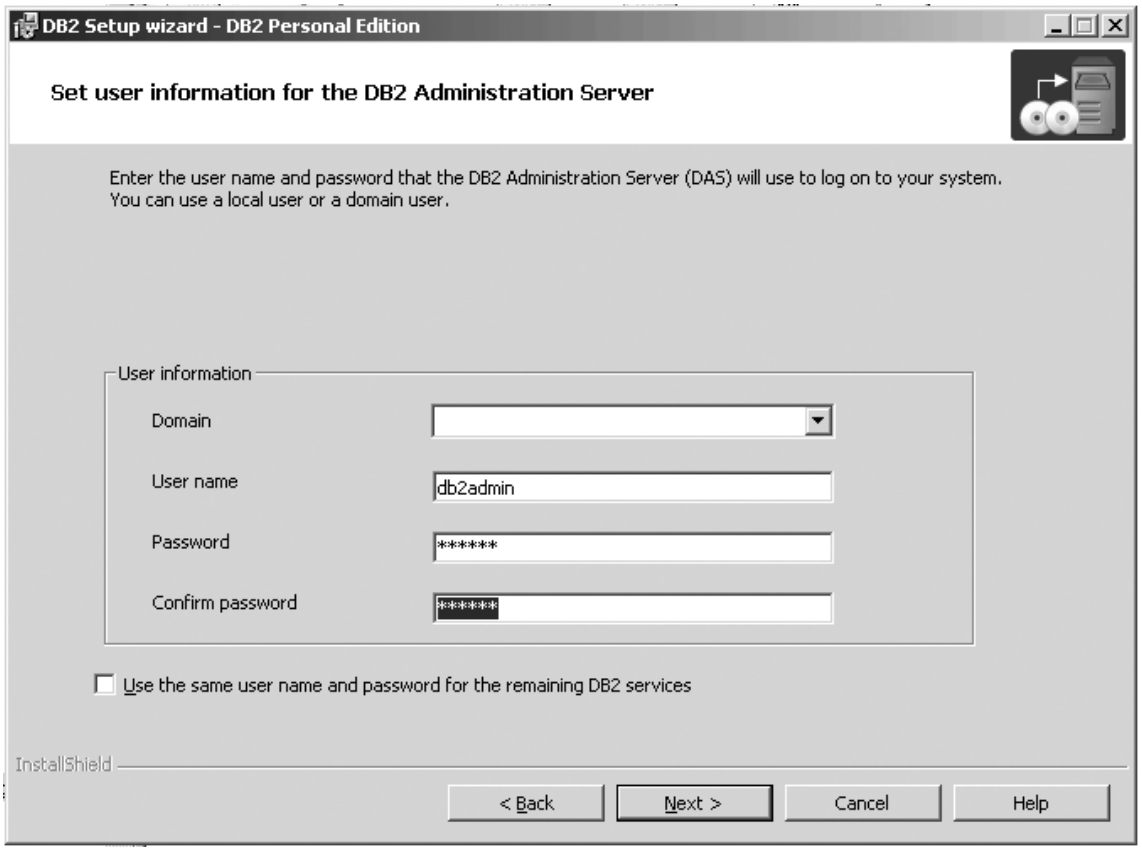


Figure 15. DB2 Setup wizard - Set user information for the DB2 Administration Server page

f. Click **Next**. The ″Set up the administration contact list″ page opens.

12. On the ″Set up the administration contact list″ page:
    a. Select the **Local - Create a contact list on this system** radio button.
    b. Ensure that the **Enable notification** check box is not selected.

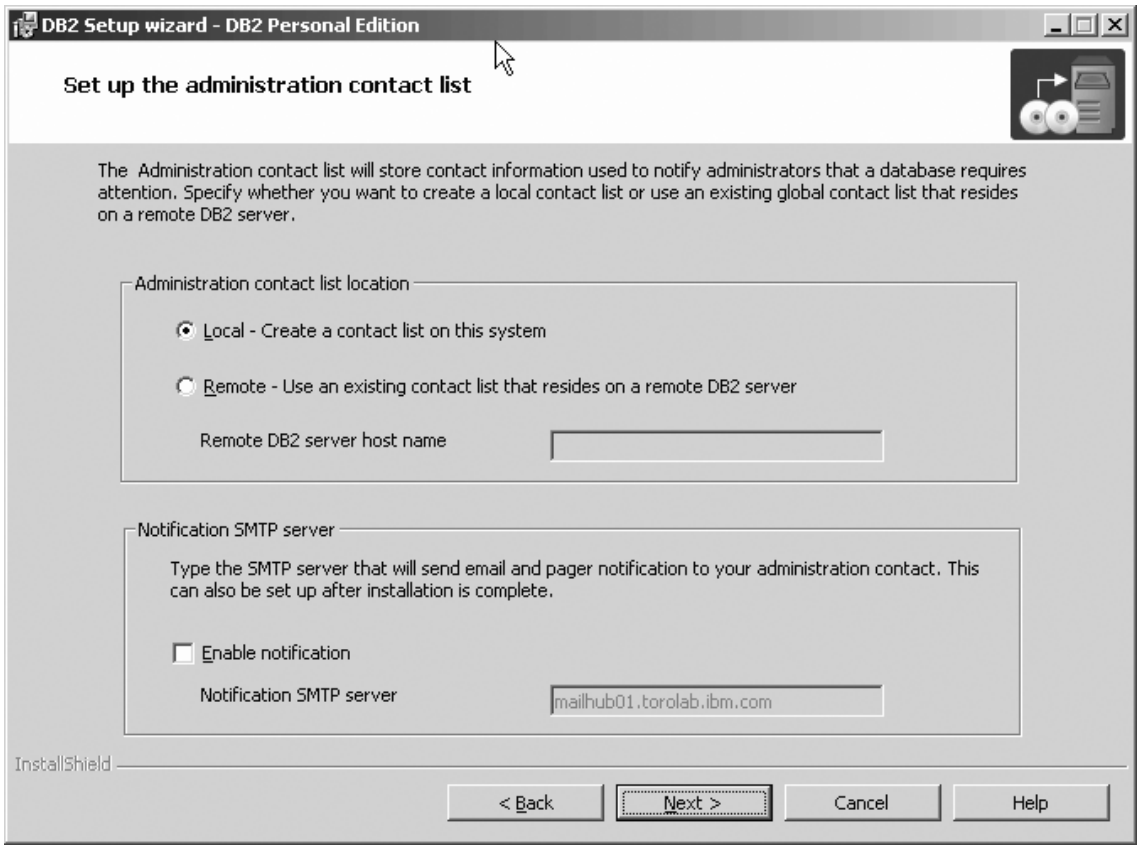


Figure 16. DB2 Setup wizard - Set up the administration contact list page

c. Click **Next**. Because the **Enable notification** check box was not selected on the "Set up the administration contact list" page, the following warning message is displayed:

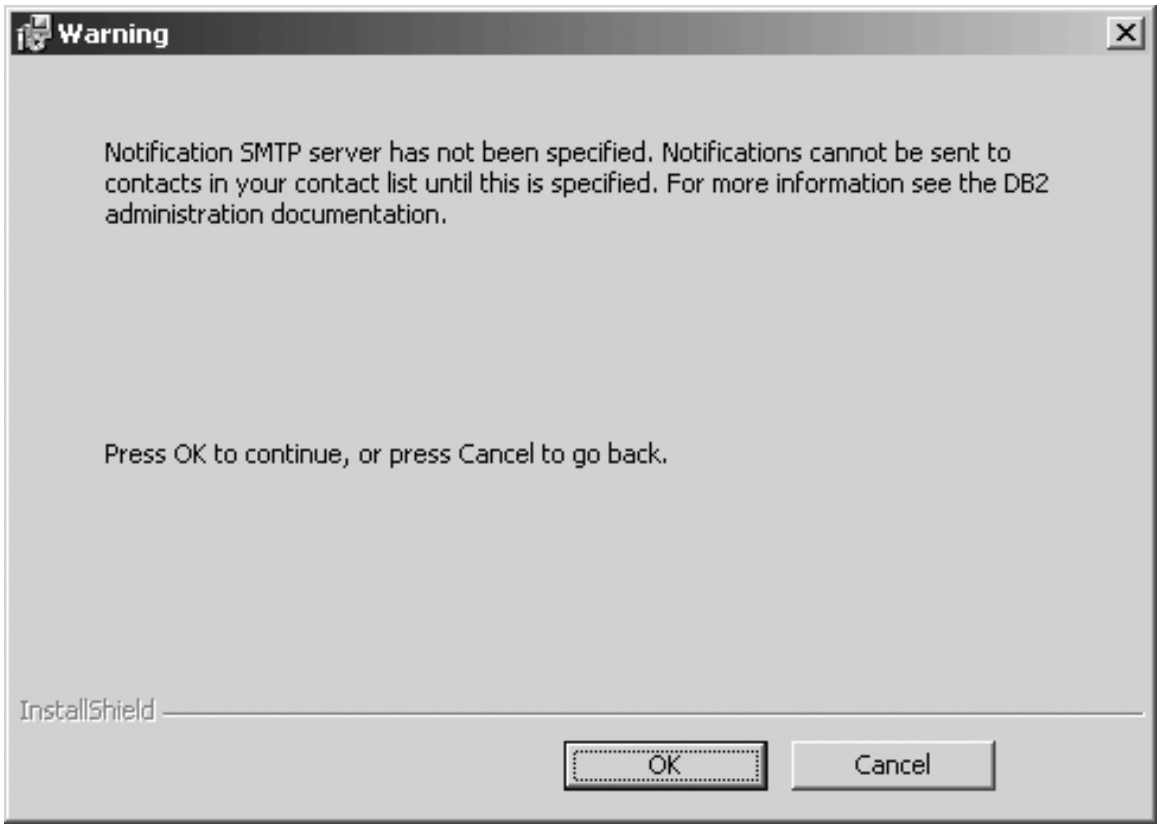


Figure 17. DB2 Setup wizard - Warning message

Click **OK**. The "Configure DB2 instances" page opens.

13. On the "Configure DB2 instances" page, click the **Startup** button. The "Startup options" window opens.

    On the "Startup options" window:

    a. Select the **Do not autostart the instance. The instance must be started manually** radio button.

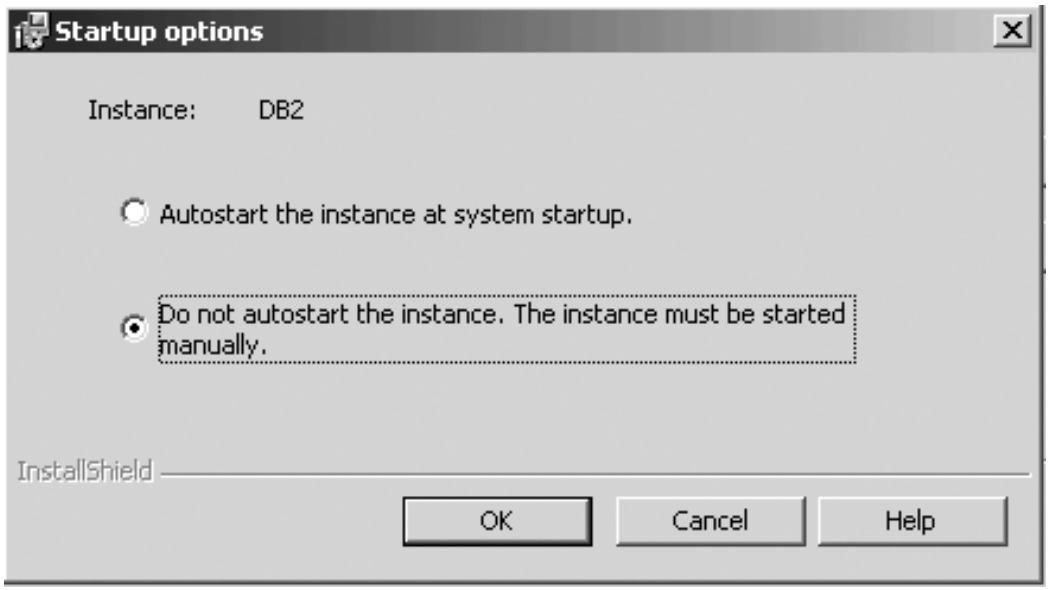


Figure 18. Startup options window

b. Click **OK**. The "Startup options" widow closes.

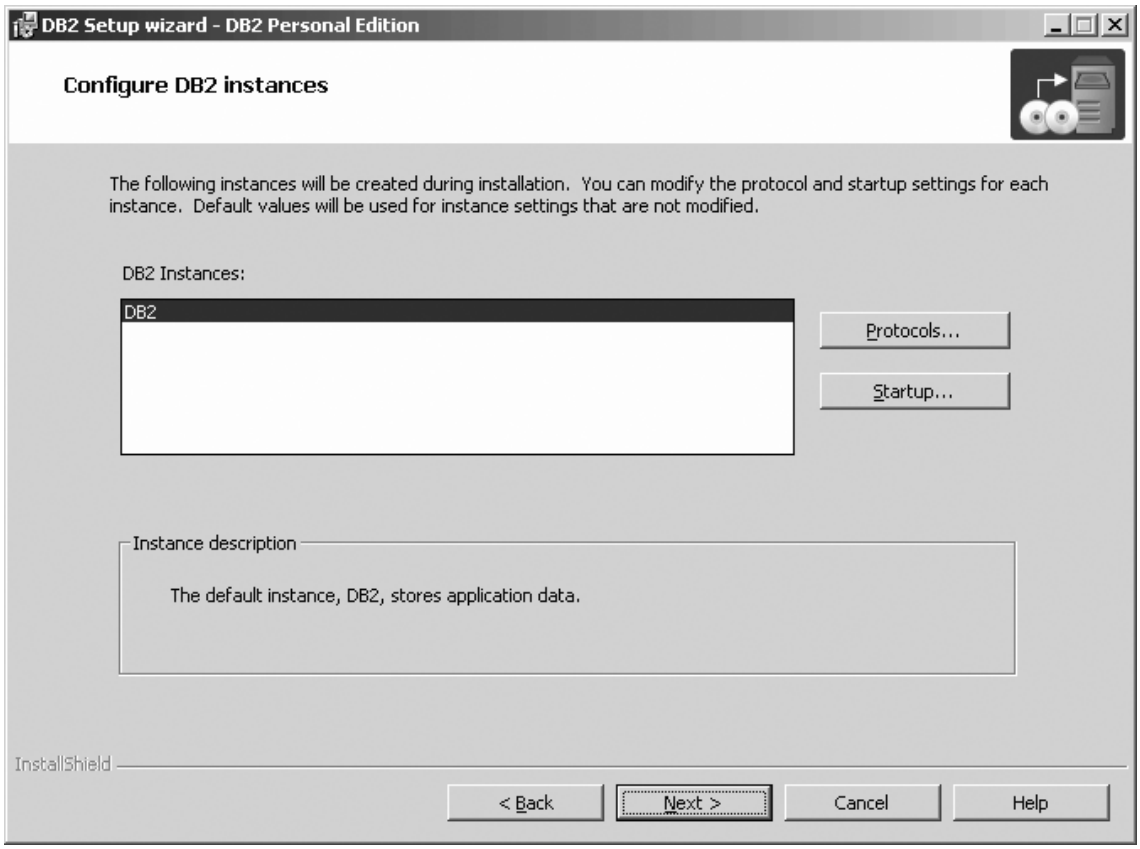


Figure 19. DB2 Setup wizard - Configure DB2 instances page

On the "Configure DB2 instances" page, click **Next**. The "Set user information for the DB2 instance" page opens.

14. On the ″Set user information for the DB2 instance″ page:
    a. Select the domain of the user from the **Domain** drop-down list.
    b. Type the user name for the DB2 Administration Server in the **User name** field.
    c. Type the password for the user in the **Password** field.
    d. Type the password again in the **Confirm password** field.
    e. Ensure that the **Use the same user name and password for the remaining DB2 services** check box is not selected.

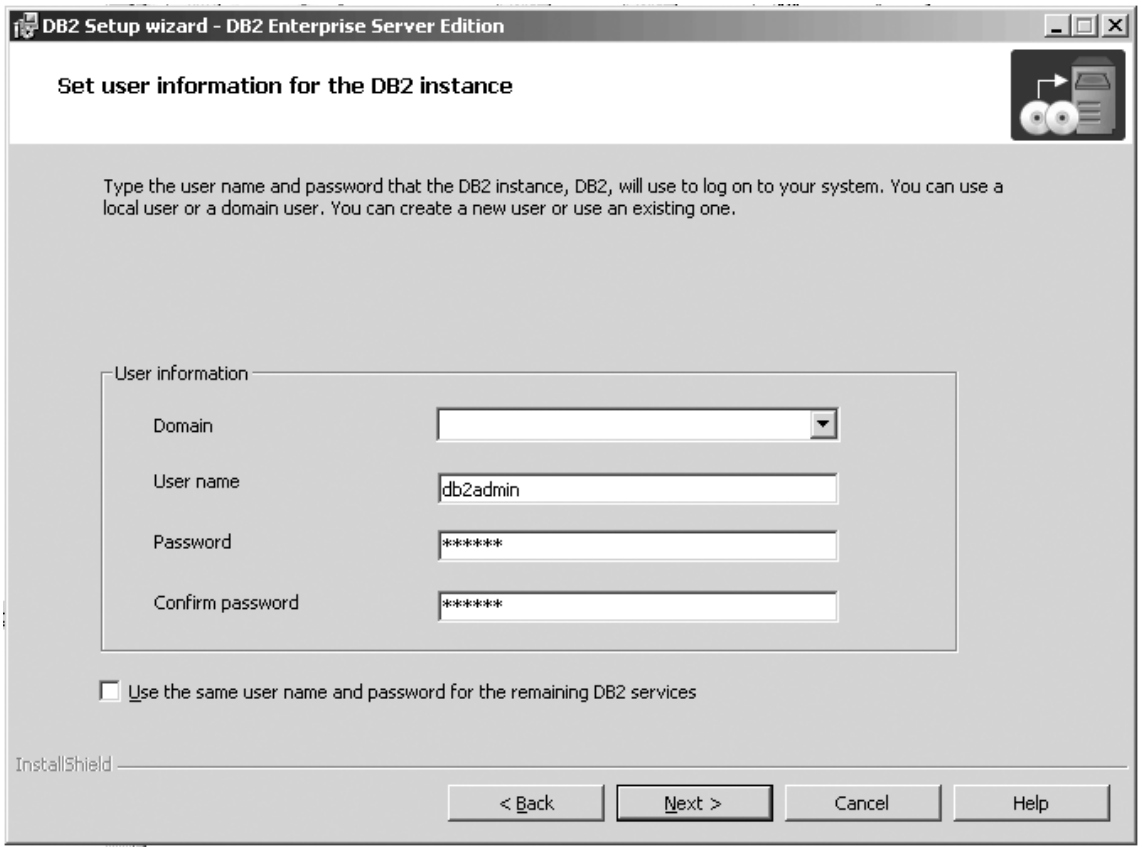


Figure 20. DB2 Setup wizard - Set user information for the DB2 instance

    f. Click **Next**. The ″Prepare the DB2 tools catalog″ page opens.
15. On the ″Prepare the DB2 tools catalog″ page:
    a. Click the **Do not prepare the DB2 tools catalog on this computer** radio button.

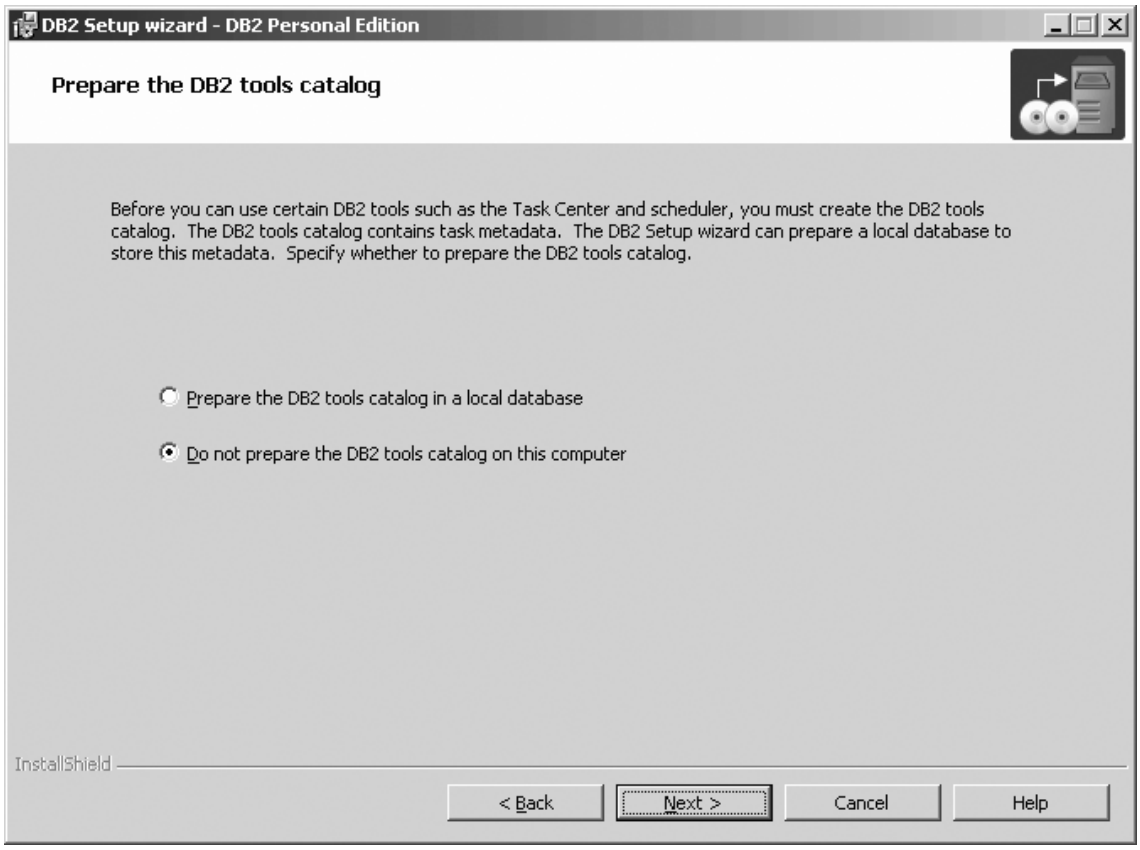


Figure 21. DB2 Setup wizard - Prepare the DB2 tools catalog page

b. Click **Next**. The ″Specify a contact for health monitor notification″ page opens.

16. On the ″Specify a contact for health monitor notification″ page:
    a. Click the **Defer the task until after installation is complete** radio button.

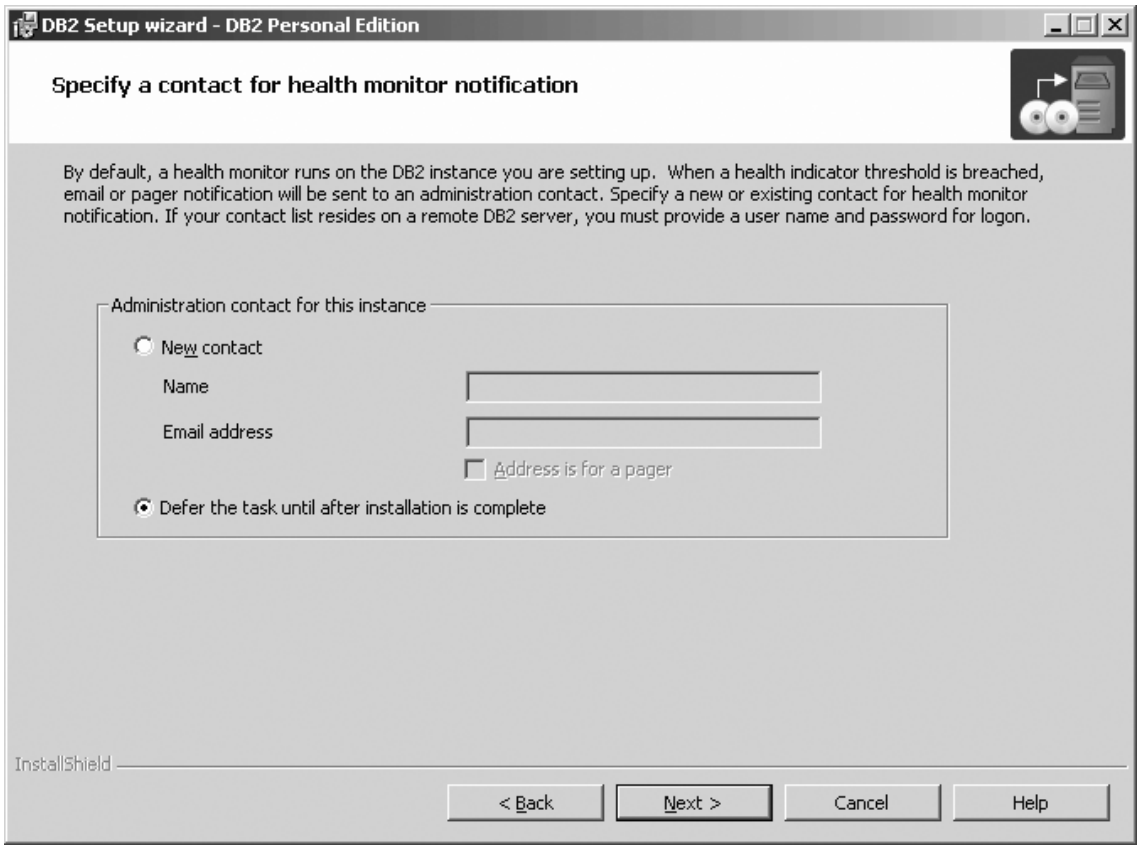


Figure 22. DB2 Setup wizard - Specify a contact for health monitor notification page

b. Click **Next**. The ″Enable operating system security for DB2 objects″ page opens.

17. On the ″Enable operating system security for DB2 objects″ page:
    a. Deselect the **Enable operating system security** check box.

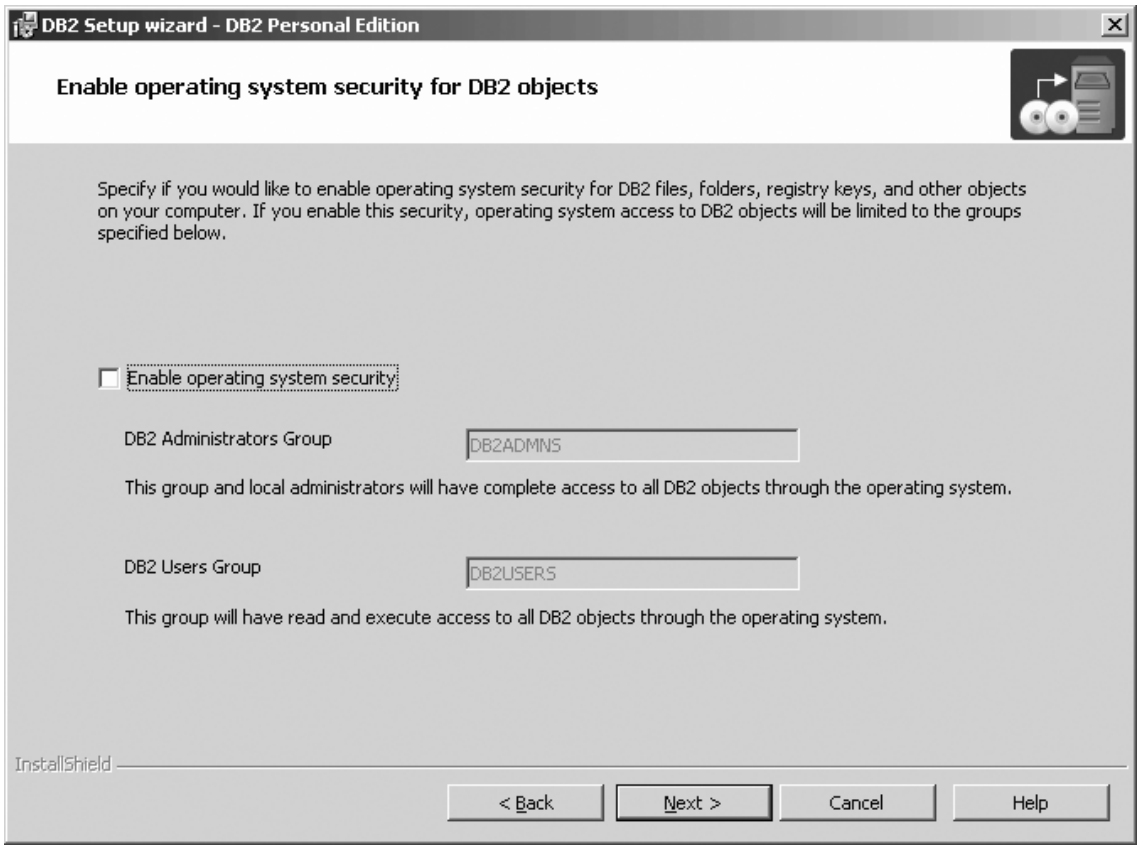


Figure 23. DB2 Setup wizard - Enable operating system security for DB2 objects page

b. Click **Next**. The "Start copying files" page opens.

18. On the "Start copying files" page, click **Install** to begin installing DB2 on your computer.

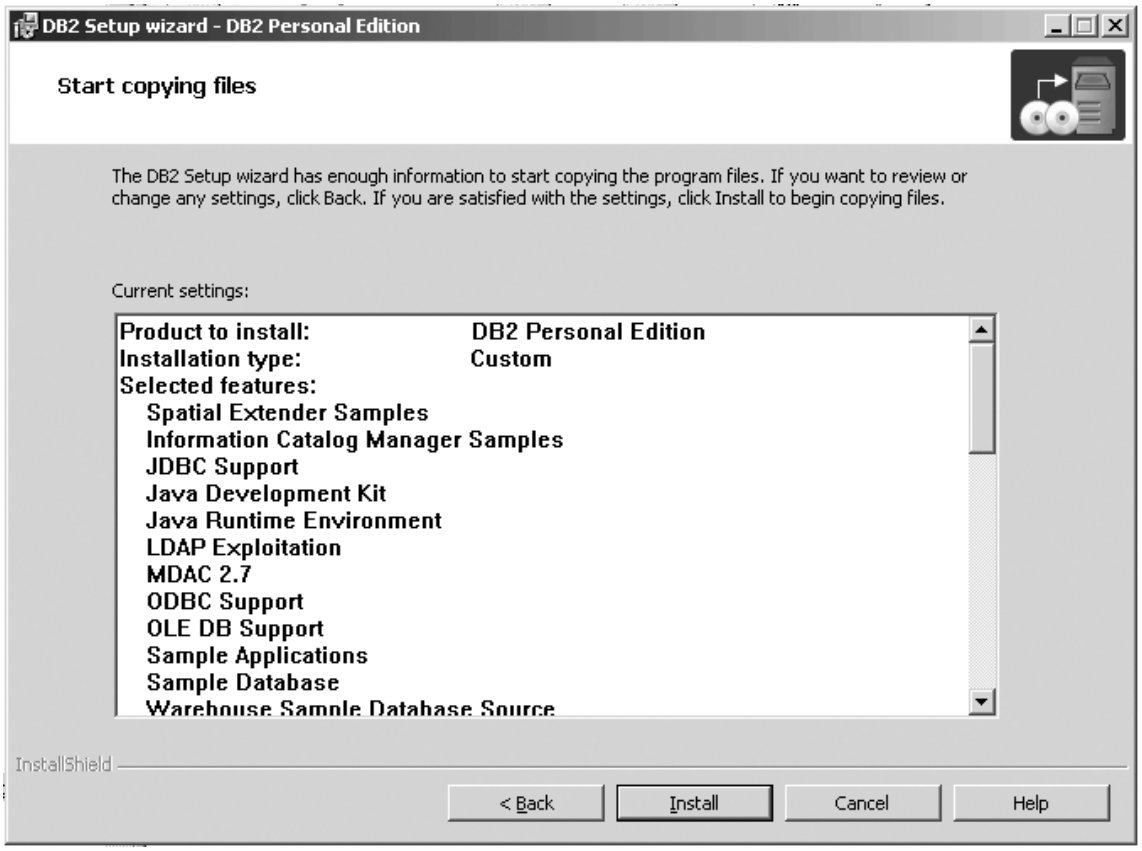


Figure 24. DB2 Setup wizard - Start copying files page

The "Installing DB2 Personal Edition" page opens.

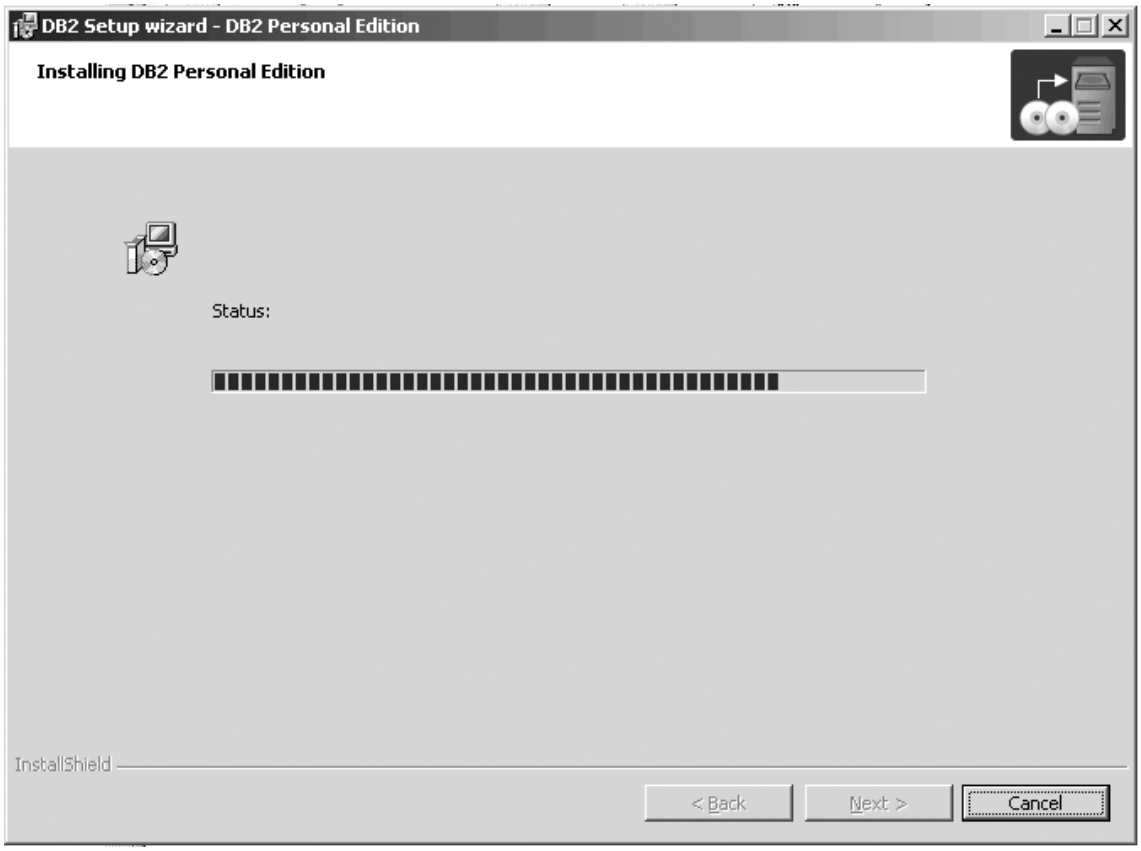


Figure 25. DB2 Setup wizard - Installing DB2 Personal Edition page

Note: If a window called "Digital Signature Not Found" opens, click **Yes** to continue.

When the installation completes, the "Setup is complete" page opens.

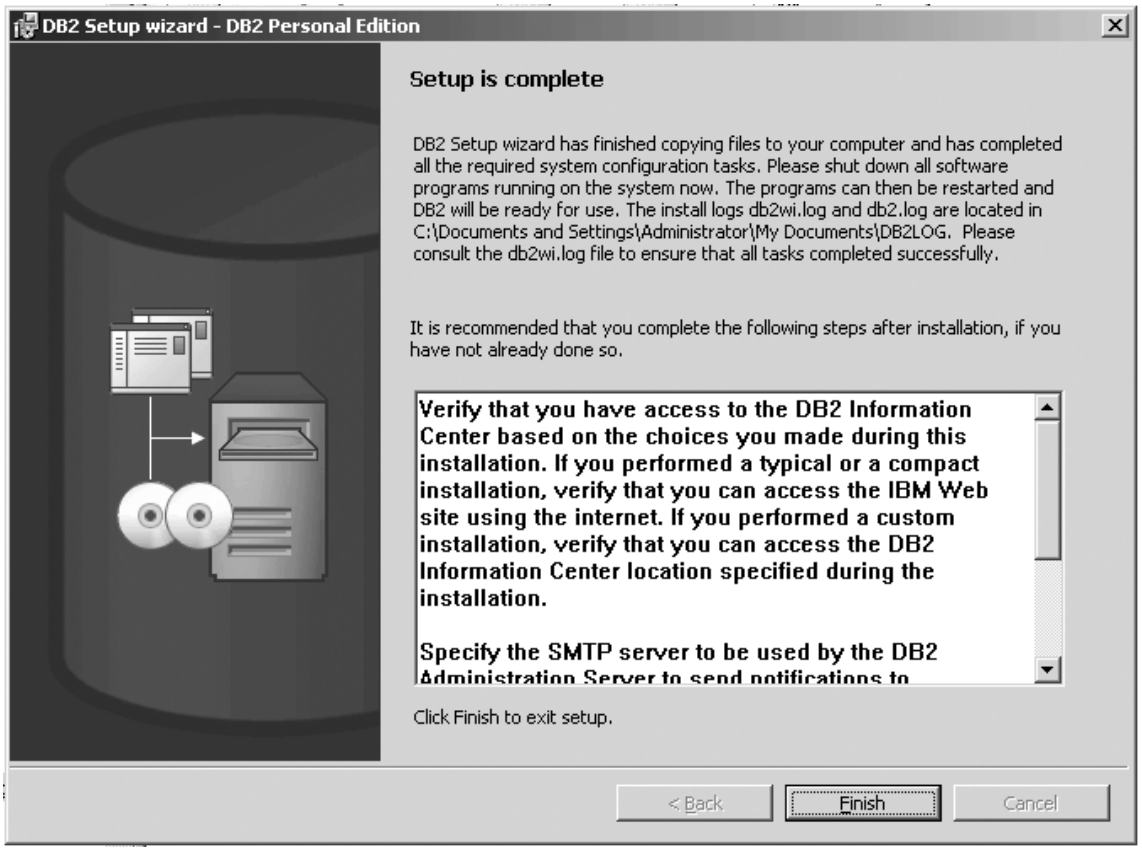


Figure 26. DB2 Setup wizard - Setup is complete page

Click **Finish** to exit from the "DB2 Setup wizard".

After DB2 Personal Edition is installed, see the topic on configuring DB2 to be Common Criteria compliant in the *DB2 Universal Database Common Criteria Certification: Administration and User Documentation* book.

Chapter 3. Installing DB2 Personal Edition on Linux

Installation overview

Installing DB2 Personal Edition - overview (Linux)

This topic outlines steps for installing DB2 Personal Edition on Linux.

Procedure:

To install DB2 Personal Edition on Linux:

1. Review the DB2 Personal Edition prerequisites. Ensure that your computer meets:
   - Disk and memory, and installation requirements
   - User accounts for installation and setup of DB2 Personal Edition. You require one user account for installation and two user accounts for setup. The user accounts required for setup can be created before you install or you can have the DB2 Setup wizard create them for you.

     Note: In a Common Criteria compliant installation, the user accounts are created before DB2 is installed.
2. Mount the DB2 installation CD-ROM.
3. Install DB2 Personal Edition using the DB2 Setup wizard. DB2 Setup wizard features include:
   - A DB2 Setup Launchpad from which you can view installation notes, release notes, and learn about DB2 version 8 features
   - Typical, Compact, and Custom installation types. Installation choices presented to you depend on the type of installation you choose
   - Multiple languages installation support.
   - DB2 Administration Server setup (including DAS user setup)
   - Administration contact and health monitor notification setup
   - Instance setup and configuration (including instance user setup)
   - DB2 tools catalog and warehouse control database setup
   - Response file creation. You can save your installation choices in a response file for later installation or to duplicate the installation on another computer.
4. *Optional*: Install the DB2 Information Center

   Note: The DB2 Information Center is not supported in a Common Criteria compliant configuration.

Related concepts:

- "Installation methods for DB2 UDB (Windows and UNIX)" in the *Quick Beginnings for DB2 Servers*

Related tasks:

- "Mounting the CD-ROM (Linux)" on page 48
- "Starting the DB2 Setup wizard (Linux)" on page 49

- "Installing a DB2 product manually" in the *Installation and Configuration Supplement*
- "Installing the DB2 Information Center using the DB2 Setup wizard (UNIX)" in the *Infrastructure Topics (DB2 Common Files)*

Related reference:

- "Installation requirements for DB2 Personal Edition (Linux)" on page 47
- "Availability of Asian fonts (Linux)" in the *Release notes*

NIS installation considerations

In environments that include security software, such as NIS or NIS+, there are some installation considerations. The DB2 installation scripts attempt to update objects that are under the control of the security packages, such as users and groups, and will not be able to do so if NIS or NIS+ is installed.

At instance creation, without a security component present, the instance-owning user's group properties are automatically modified to add the administrative server's group as a secondary group, and the administrative server's group properties are modified to include the instance owner's group. If the instance creation program is unable to modify these properties (it will not if NIS/NIS+ is controlling the group), it reports that it could not. The warning message provides the necessary information to manually make the changes.

These considerations hold true for any environment in which an external security program does not allow the DB2 installation or instance creation programs to modify user characteristics.

If the DB2 Setup wizard detects NIS on your computer, you are not given the option of creating new users during the installation. Instead, you must choose existing users.

Consider the following restrictions if you are using NIS or NIS+:

- Groups and users must be created on the NIS server before running the DB2 Setup wizard.
- Secondary groups must be created for the DB2 instance owner and the DB2 Administration Server on the NIS server. You must then add the primary group of the instance owner to the secondary DB2 Administration Server group. Likewise, you must add the primary DB2 Administration Server group to the secondary group for the instance owner.
- On a DB2 ESE system, before you create an instance, there must be an entry for the instance in the etc/services file. For example, if you want to create an instance for the user `db2inst1`, you require an entry similar to the following:

```
DB2_db2inst1    50000/tcp
```

Related tasks:

- "Installing DB2 Personal Edition - overview (Linux)" on page 43
- "Manually creating required groups and users for DB2 Personal Edition (Linux)" on page 46

Modifying desktop icons (Linux)

DB2 includes a set of utilities for the creation of DB2 desktop folders and icons for launching the most commonly used DB2 tools on the Gnome and KDE desktops for supported Intel-based Linux distributions. These utilities are installed by default, and can be used after the installation to create and remove desktop icons for one or more selected users.

Prerequisites:

You must have sufficient authority to generate or remove icons for other users. Typically, db2icons and db2rmicons can be used to create or remove icons for yourself if you are a normal user, and for others only if you are root, or another user with the authority to write to the specified users home directories.

Restrictions:

If icons are generated while a Gnome or KDE desktop environment is running, the user may need to force a manual desktop refresh to see the new icons.

Procedure:

To add a set of desktop icons for one or more users, enter the command:

```
db2icons <user1> [<user2> <user3>...]
```

To remove a set of desktop icons for one or more users, enter the command:

```
db2rmicons <user1> [<user2> <user3>...]
```

DB2 groups and users

DB2 users and group (UNIX)

Three users and three groups are required to operate DB2® UDB on UNIX®. The DB2 Setup Wizard can create the following users and groups automatically during the installation of your DB2 product.

Note: For a Common Criteria compliant installation, these users and groups must be created manually.

Instance owner
The DB2 instance is created in the instance owner home directory. This user ID controls all DB2 processes and owns all file systems and devices used by the databases contained within the instance. The default user is `db2inst1` and the default group is `db2iadm1`.

If a user already exists with the same default name, for example, `db2inst1`, the DB2 installer will then search for the user `db2inst2`. If that user doesn't exist, it will then create that user. If that user does exist, the DB2 installer will continue its search (`db2inst3`, `db2inst4`, etc.) until it finds an available user. This algorithm also applies to the creation of fenced users and DB2 administration server users.

Fenced user
The fenced user is used to run user defined functions (UDFs) and stored procedures outside of the address space used by the DB2 database. The default user is `db2fenc1` and the default group is `db2fadm1`. If you do not

need this level of security, for example in a test environment, you may use your instance owner as your fenced user.

DB2 administration server user

The user ID for the DB2 administration server user is used to run the DB2 administration server on your system. Default user is `dasusr1` and default group is `dasadm1`. This user ID is also used by the DB2 GUI tools to perform administration tasks against the local server database instances and databases.

This user does not contain any databases and there is only one administration server per machine. For example, one administration server can service multiple database instances.

Related tasks:

- "Creating required users for a DB2 server installation in a partitioned database environment (AIX)" in the *Quick Beginnings for DB2 Servers*
- "Creating required users for a DB2 server installation in a partitioned database environment (HP-UX)" in the *Quick Beginnings for DB2 Servers*
- "Creating required users for a DB2 server installation in a partitioned database environment (Linux)" in the *Quick Beginnings for DB2 Servers*
- "Creating required users for a DB2 server installation in a partitioned database environment (Solaris Operating Environment)" in the *Quick Beginnings for DB2 Servers*

Manually creating required groups and users for DB2 Personal Edition (Linux)

Three users and groups are required to operate DB2. The user and group names used in the following instructions are documented in the following table. You may specify your own user and group names as long as they adhere to your system naming rules and DB2 naming rules.

Table 2. Required users and groups

Required user	User name	Group name
Instance owner	db2inst1	db2iadm1
Fenced user	db2fenc1	db2fadm1
Administration server user	db2as	db2asgrp

Prerequisites:

You must have root authority to create users and groups.

Procedure:

To create groups on Linux, enter the following commands:

```
groupadd -g 999 db2iadm1
groupadd -g 998 db2fadm1
groupadd -g 997 db2asgrp
```

Create users for each group:

```
useradd -u 1004 -g db2iadm1 -m -d /home/db2inst1 db2inst1
useradd -u 1003 -g db2fadm1 -m -d /home/db2fenc1 db2fenc1
useradd -u 1002 -g db2asgrp -m -d /home/db2as  db2as
```

After creating the users, use the `passwd username` command to set the password for each new user:

```
passwd db2inst1
passwd db2fenc1
passwd db2as
```

Related concepts:

- "User, user ID and group naming rules" in the *Administration Guide: Implementation*

Related tasks:

- "Installing DB2 Personal Edition - overview (Linux)" on page 43

Installation requirements

Installation requirements for DB2 Personal Edition (Linux)

To install a DB2 Personal Edition, the following hardware, operating system, software, and communications requirements must be met:

Hardware requirements

Intel 32–bit and 64–bit architecture is supported.

Note: For Common Criteria compliant installations, only Intel 32–bit architecture is supported.

Distribution requirements

For the latest information on supported distribution and kernel levels, point your browser to http://www.ibm.com/db2/linux/validate

Software requirements

- You require the appropriate SDK to use Java-based tools like the DB2 Control Center, and to create and run Java applications, including stored procedures and user-defined functions. If the SDK is required by some component being installed, and the SDK is not already installed, the SDK will be installed if you use either the DB2 Setup wizard or a response file to install the product. The SDK is not installed with the DB2 Run-Time client. The SDK requirements are:
  - Linux 32–bit: SDK 1.3.1 or SDK 1.4.1 Service Release 1
  - Linux Red Hat EL 3 32–bit: SDK 1.4.1 Service Release 2
  - Linux IPF 64–bit: SDK 1.3.1
  - LinuxAMD 64–bit: SDK 1.3.1

  For the most up-to-date SDK information, see http://www.ibm.com/software/data/db2/udb/sysreqs.html.
- A browser is required to view online help.

Communication requirements

For accessing remote databases, TCP/IP is required.

Related tasks:

- "Installing DB2 Personal Edition - overview (Linux)" on page 43

Related reference:

- "IBM Software Development Kit for Java levels for DB2 UDB (Windows and UNIX)" in the *Quick Beginnings for DB2 Servers*

Disk and memory requirements (Windows and UNIX)

This topic lists the memory and disk requirements for DB2.

Disk requirements:

The disk space required for your product depends on the type of installation you choose and the type of file system you have. The DB2 Setup wizard provides dynamic size estimates based on the component selected during a typical, compact, or custom installation.

On Windows, you may require significantly more space on FAT (File Allocation Table) drives with large cluster sizes than with NTFS (New Technology File System) drives.

Remember to include disk space for required software, communication products, and documentation.

Memory requirements:

At a minimum, DB2 requires 256 MB of RAM. 512M of RAM memory is recommended if you use the DB2 GUI tools. When determining memory requirements, be aware of the following:

- For DB2 client support, these memory requirements are for a base of 5 concurrent client connections. You will need an additional 16 MB of RAM per 5 client connections.
- Additional memory might be required for software other than DB2 that is running on your system.
- Additional memory may be required to improve the performance of the DB2 GUI tools.
- Specific performance requirements can determine the amount of memory needed.
- Memory requirements are affected by the size and complexity of your database system.
- Memory requirements are affected by the extent of database activity and the number of clients accessing your system.
- On Linux, ensure that your SWAP space is at least twice as much as your RAM.

Mounting the CD-ROM (Linux)

Prerequisites:

Root authority is required to perform this task.

Procedure:

To mount the CD-ROM on Linux:

1. Log in as a user with root authority.
2. Insert the CD-ROM in the drive and enter the following command:

```
mount -t iso9660 -o ro /dev/cdrom /cdrom
```

where */cdrom* represents the mount point of the CD-ROM.

3. Log out.

Your CD-ROM file system is now mounted. To view the contents of the CD-ROM, place the disk in the drive and enter the `cd /cdrom` command where `cdrom` is the CD-ROM mount point directory.

Related concepts:

- "Multiple DB2 level installations" in the *Installation and Configuration Supplement*

Related reference:

- "DB2 product license files" in the *Installation and Configuration Supplement*

Starting the DB2 Setup wizard (Linux)

This task describes how to start the DB2 Setup wizard on Linux. The DB2 Setup wizard is used to define your installation preferences and install DB2 onto your system.

Prerequisites:

Before you start the DB2 Setup wizard

- Ensure that your system meets installation, memory, and disk requirements.
- You require root authority to perform the installation.
- The DB2 product CD-ROM must be mounted on your system.
- The DB2 Setup wizard is a Java-based installer. In order for it to run on your machine, you must be running Xwindow software capable of rendering a graphical user interface.
- If NIS/NIS+ or similar security software is used in your environment, you must manually create required DB2 users before you start the DB2 Setup wizard. Refer to the referenced NIS topic before you begin.
- Asynchronous I/O (AIO) can be enabled and disabled at run time by issuing the `db2set` command. To use AIO, you must install libaio-0.3.96 or later, have a kernel that supports AIO (e.g. version 2.6), run the `db2set DB2NOLIOAIO=false` command, and restart DB2.

Procedure:

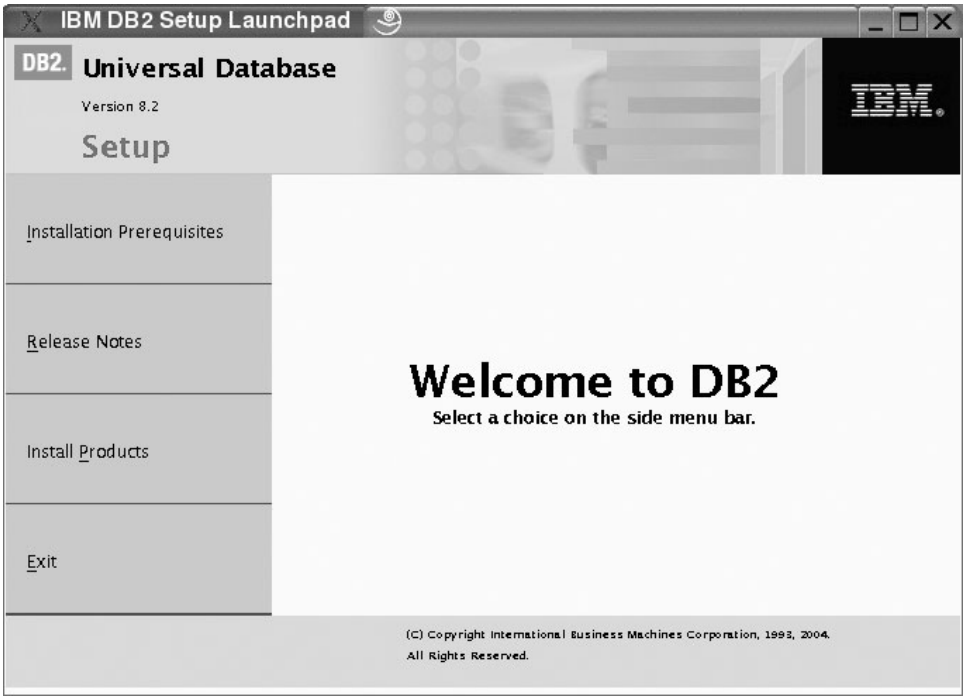
To install DB2 Personal Edition on Linux:

1. Log on to the system as a user with root authority.
2. Change to the directory where the CD-ROM is mounted by entering the following command:

   ```
   cd /media/cdrom
   ```

   where */media/cdrom* represents mount point of the CD-ROM.

3. Enter the `./db2setup` command to start the DB2 Setup wizard. After a few moments, the IBM DB2 Setup Launchpad opens.



From this window, you can view installation prerequisites and the release notes, or you can proceed directly to the installation. You may want to review the installation prerequisites and release notes for late-breaking information.

Once you have initiated the installation, proceed through the DB2 Setup wizard installation panels and make your selections. Installation help is available to guide you through the DB2 Setup wizard. To invoke the installation help, click **Help** or press F1. You can click **Cancel** at any time to end the installation. DB2 files will only be copied to your system once you have clicked **Finish** on the last DB2 Setup wizard installation panel.

When you have completed your installation, DB2 Personal Edition will be installed in /opt/IBM/db2/V8.1.

If you want your DB2 product to have access to DB2 documentation either on your local computer or on another computer on your network, then you must install the DB2 Information Center. The DB2 Information Center contains documentation for DB2 Universal Database and DB2 related products.

Note: The DB2 Information Center was not evaluated in the Common Criteria certification of DB2 Universal Database. If you are installing DB2 Universal Database to be Common Criteria compliant, do not install the DB2 Information Center.

Related concepts:

- "DB2 Information Center" in the *Infrastructure Topics (DB2 Common Files)*
- "DB2 Information Center installation scenarios" in the *Infrastructure Topics (DB2 Common Files)*

Related tasks:

- "Manually creating required groups and users for DB2 Personal Edition (Linux)" on page 46

- "Installing the DB2 Information Center using the DB2 Setup wizard (UNIX)" in the *Infrastructure Topics (DB2 Common Files)*

Related reference:

- "NIS installation considerations" on page 44
- "db2setup - Install DB2 Command" in the *Command Reference*

Installing DB2 Personal Edition on Linux SuSE for a Common Criteria compliant installation

This task provides detailed instructions on installing DB2 UDB Personal Edition on Linux SuSE for a Common Criteria compliant installation.

Prerequisites:

- The computer on which you install DB2 Universal Database must be physically protected from untrusted users.
- Linux SuSE must be installed on the computer.
- You must have the installation CD mounted.
- The user names to be used for the following:
  - The DB2 instance owner
  - The DB2 Administration Server
  - The fenced user

  If you do not have these user names, obtain them from your system administrator. For more information about these users, see "DB2 users and group (UNIX)" on page 45. For information about creating these users, see "Manually creating required groups and users for DB2 Personal Edition (Linux)" on page 46.

Procedure:

Use the following steps to install DB2 UDB Personal Edition on Linux SuSE for a Common Criteria compliant environment.

1. On the ″IBM DB2 Setup Launchpad″, click **Install Products**.

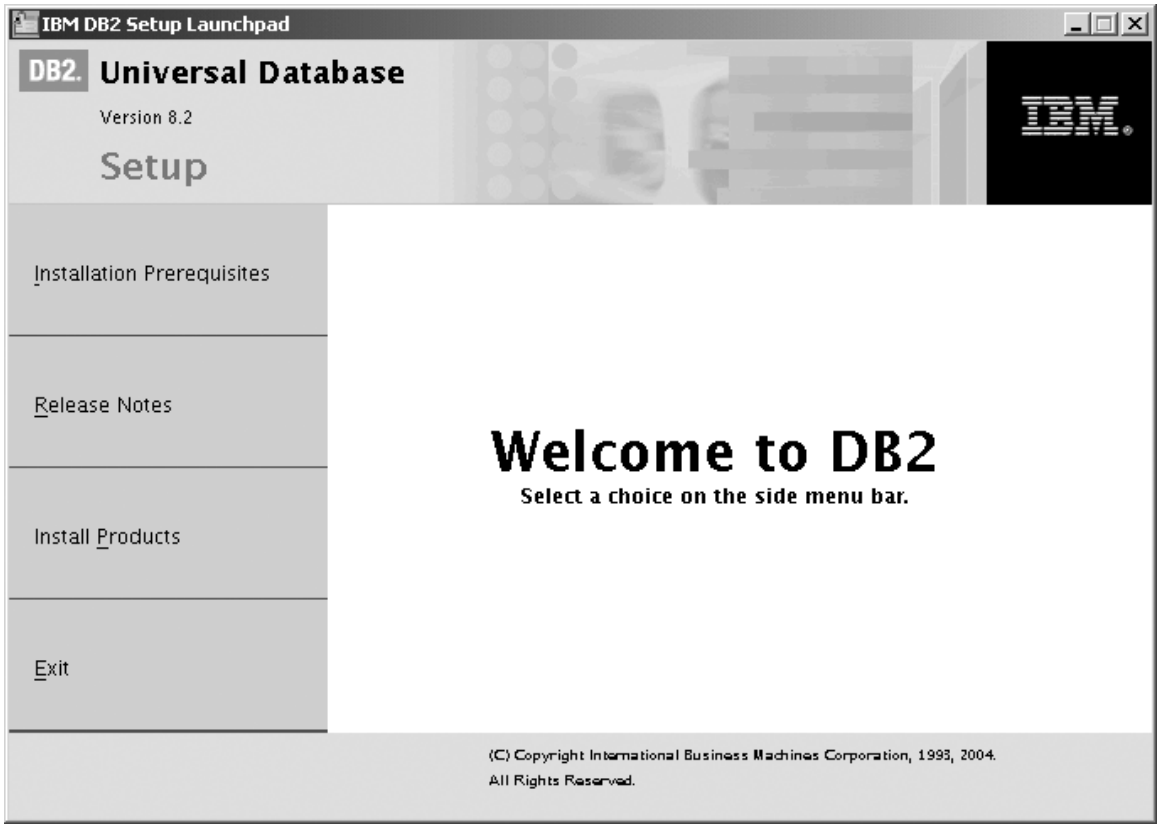


Figure 27. IBM DB2 Setup Launchpad

2. On the second page of the "IBM DB2 Setup Launchpad":
   a. In the **Select the product you would like to install box**, select **DB2 UDB Personal Edition**, as follows:

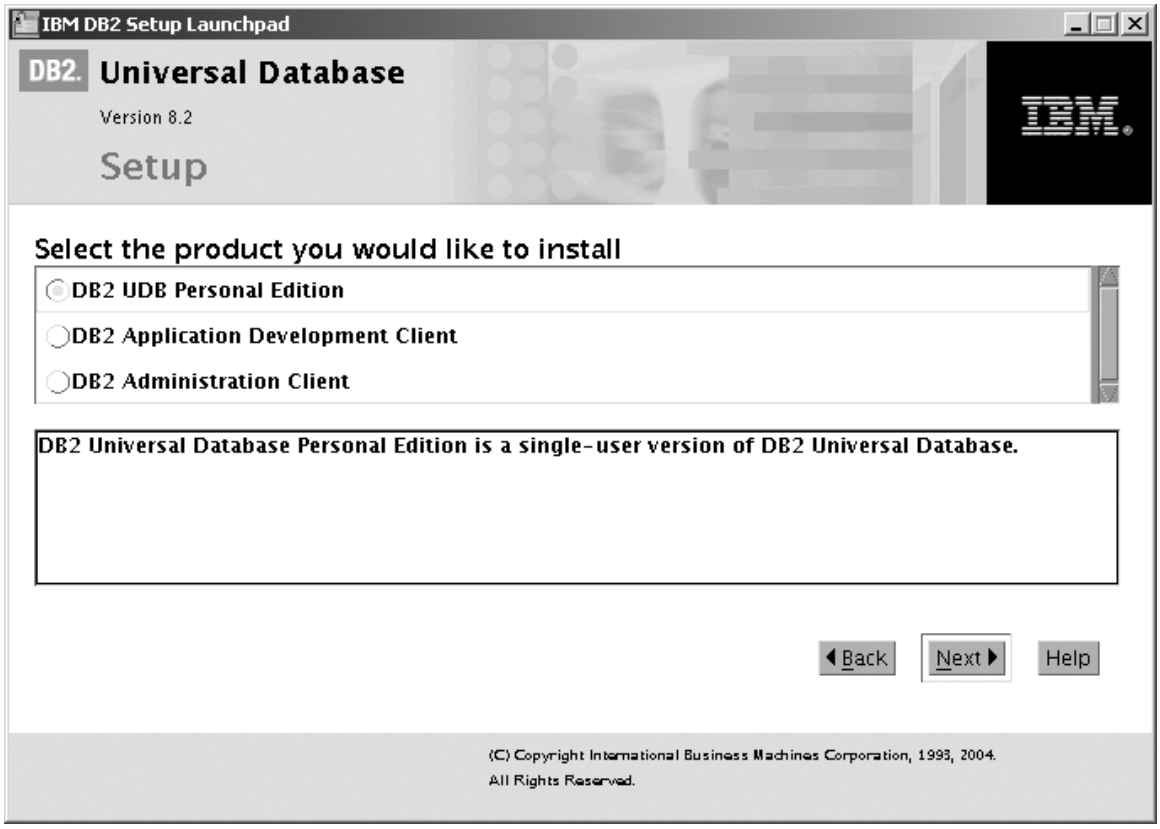


Figure 28. IBM DB2 Setup Launchpad with DB2 UDB Personal Edition selected

b. Click **Next**. In a few moments, the "DB2 Setup wizard" opens, as follows:

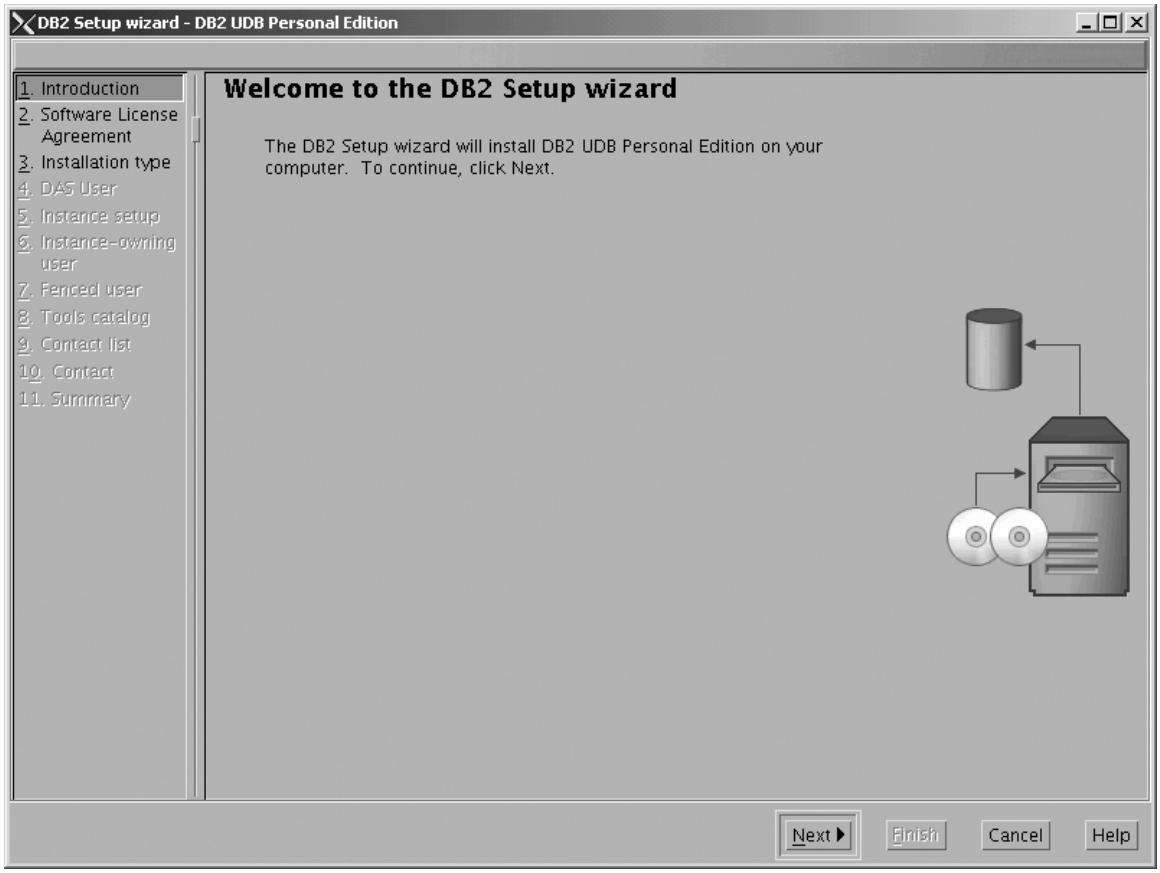


Figure 29. DB2 Setup wizard

3. Click **Next**. The "Software License Agreement" page opens.
4. On the "Software License Agreement" page:
   a. Click the **Accept** radio button.

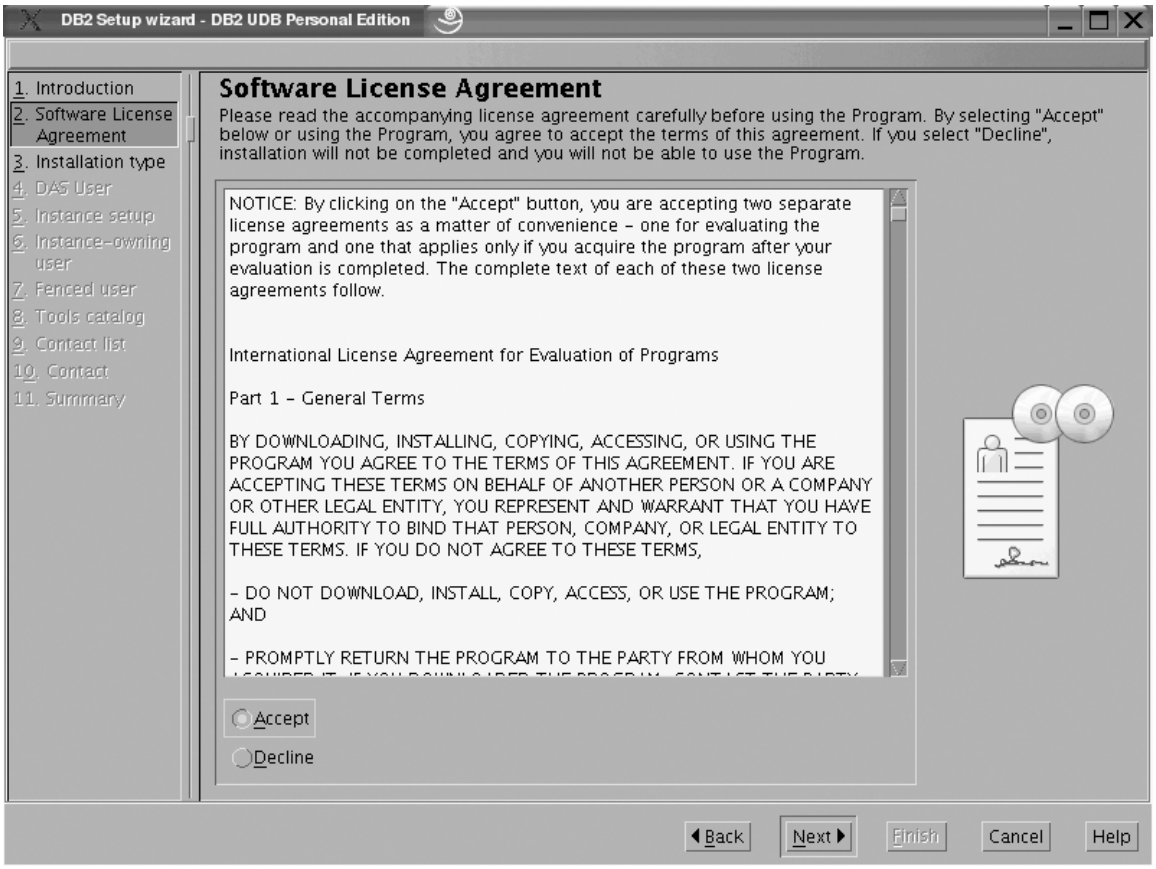


Figure 30. DB2 Setup wizard - Software License Agreement page

b. Click **Next**. The ″Select the installation type″ page opens.

5. On the ″Select the installation type″ page:
   a. Select the **Custom** radio button:

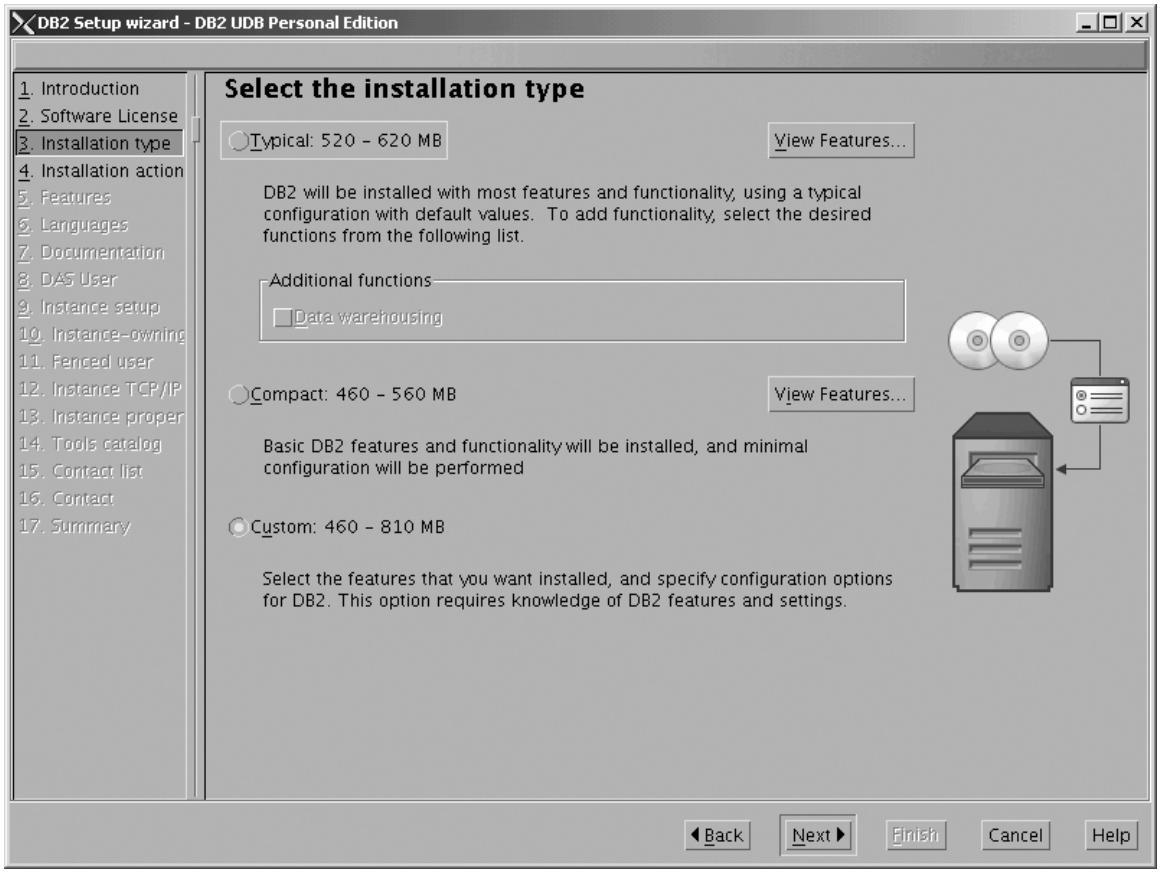


Figure 31. DB2 Setup wizard - Select the installation type page

b. Click **Next**. The "Select the installation action" page opens.

6. On the "Select the installation action" page:
   a. Select the **Install DB2 UDB Personal Edition on this computer** check box.

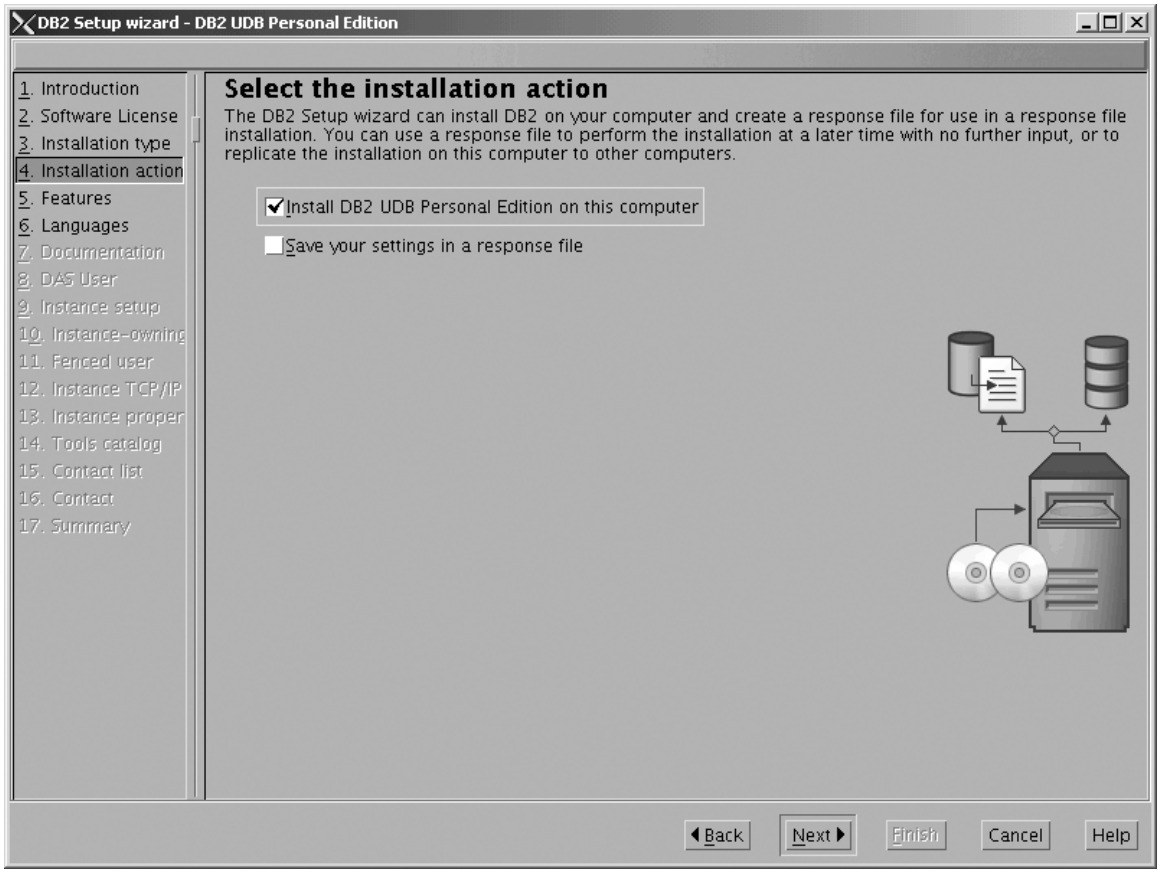


Figure 32. DB2 Setup wizard - Select the installation action page

b. Click **Next**. The "Select the features to install" page opens.

7. On the "Select the features to install" page:
   a. Open the **+** beside **Server support**, then select the check box beside **DB2 Data Source Support** (so that the check mark is removed). This action prevents the **DB2 Data Source Support** option from being installed.

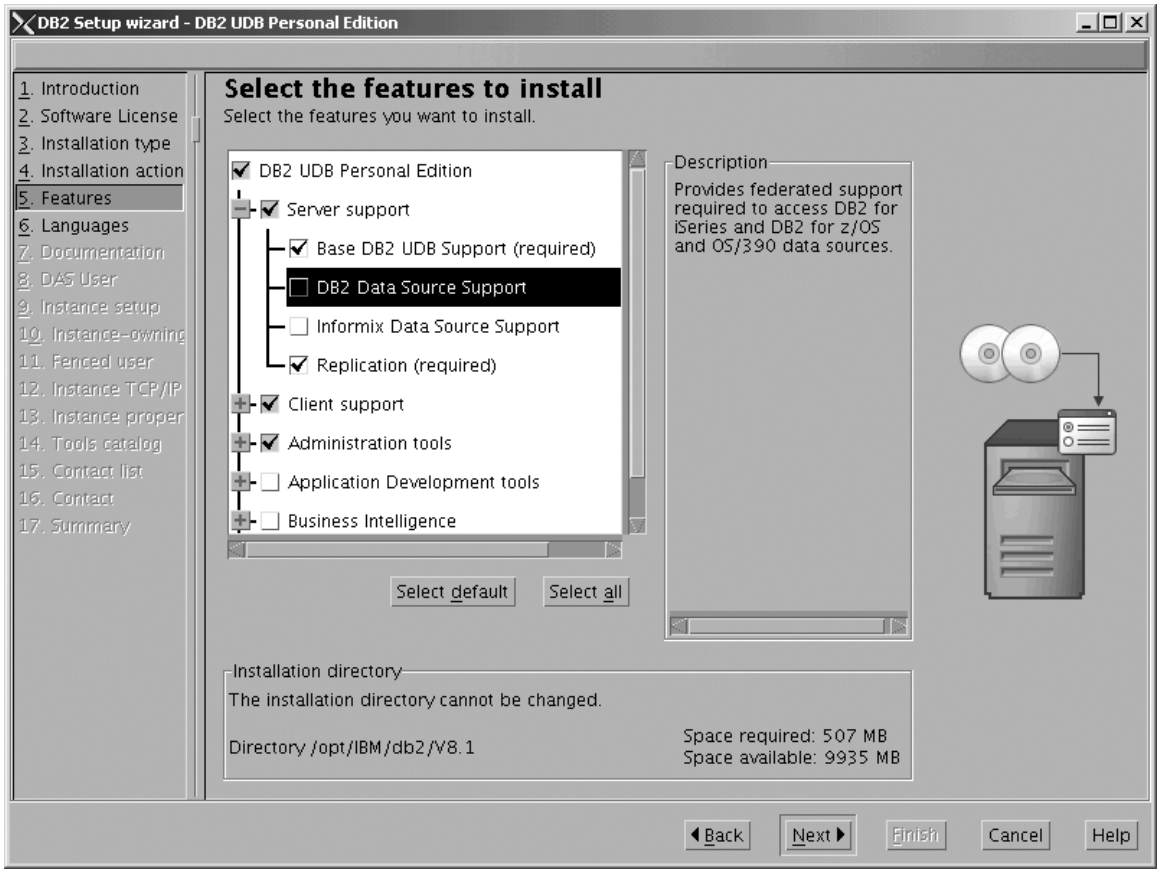


Figure 33. DB2 Setup wizard - Select the features to install page; DB2 Data Source Support option deselected for installation

b. Open the **+** beside **Administration tools**, then deselect all the checked options to remove them from the list of options being installed. Note that you must deselect the **Configuration Assistant** option last.

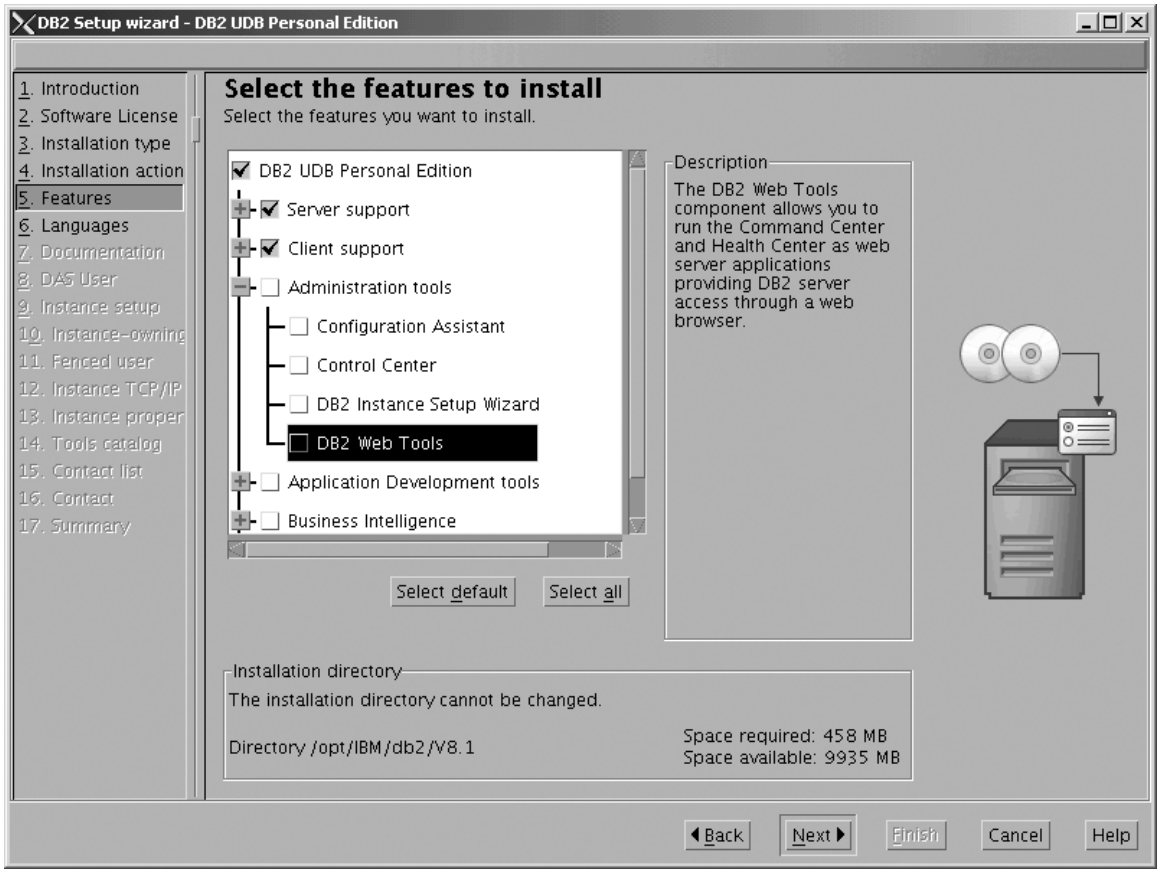


Figure 34. DB2 Setup wizard - Select the features to install page; all Administration tools options deselected for installation

c. Open the **+** beside **Application Development tools**, then select the **Base Application Development Tools** option so that this option gets installed.

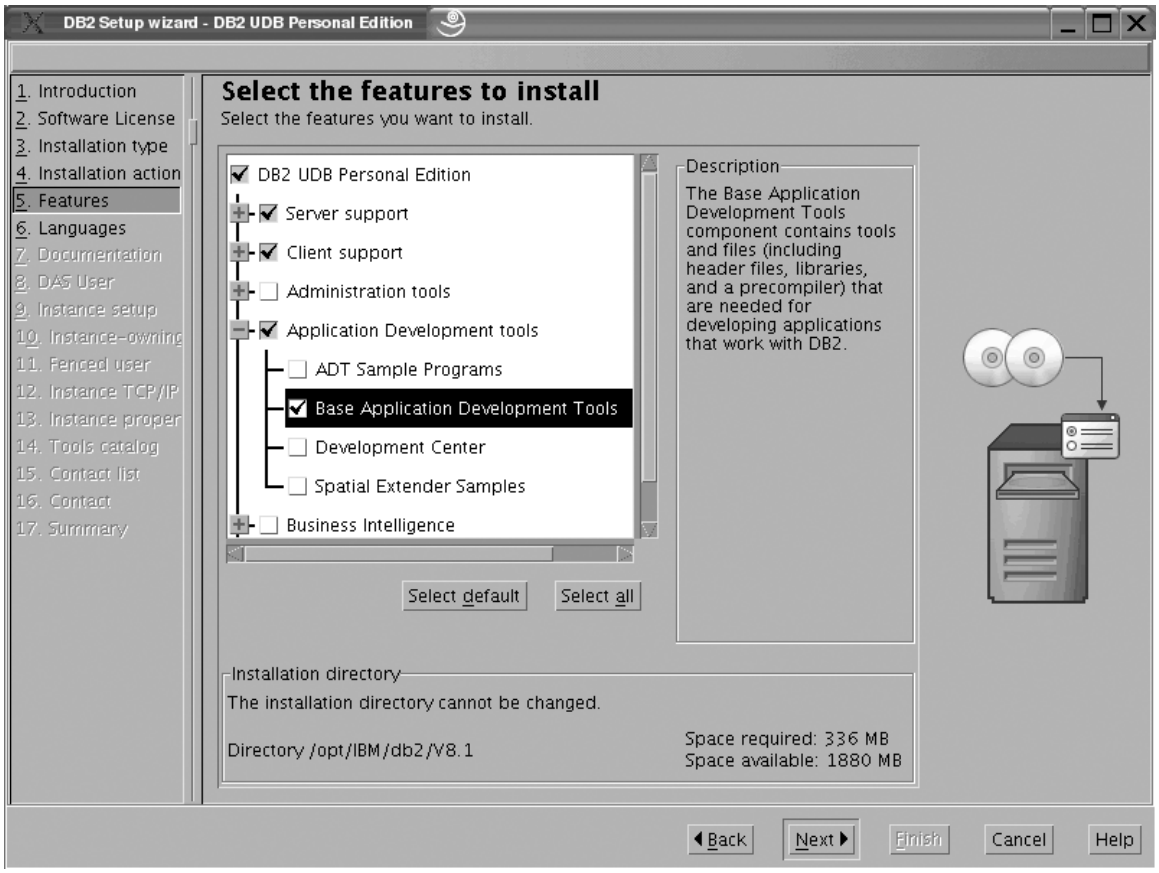


Figure 35. DB2 Setup wizard - Select the features to install page; Base Application Development Tools option selected for installation

d. Open the **+** beside **Getting started**, then deselect the **First Steps** option so that this option does not get installed.

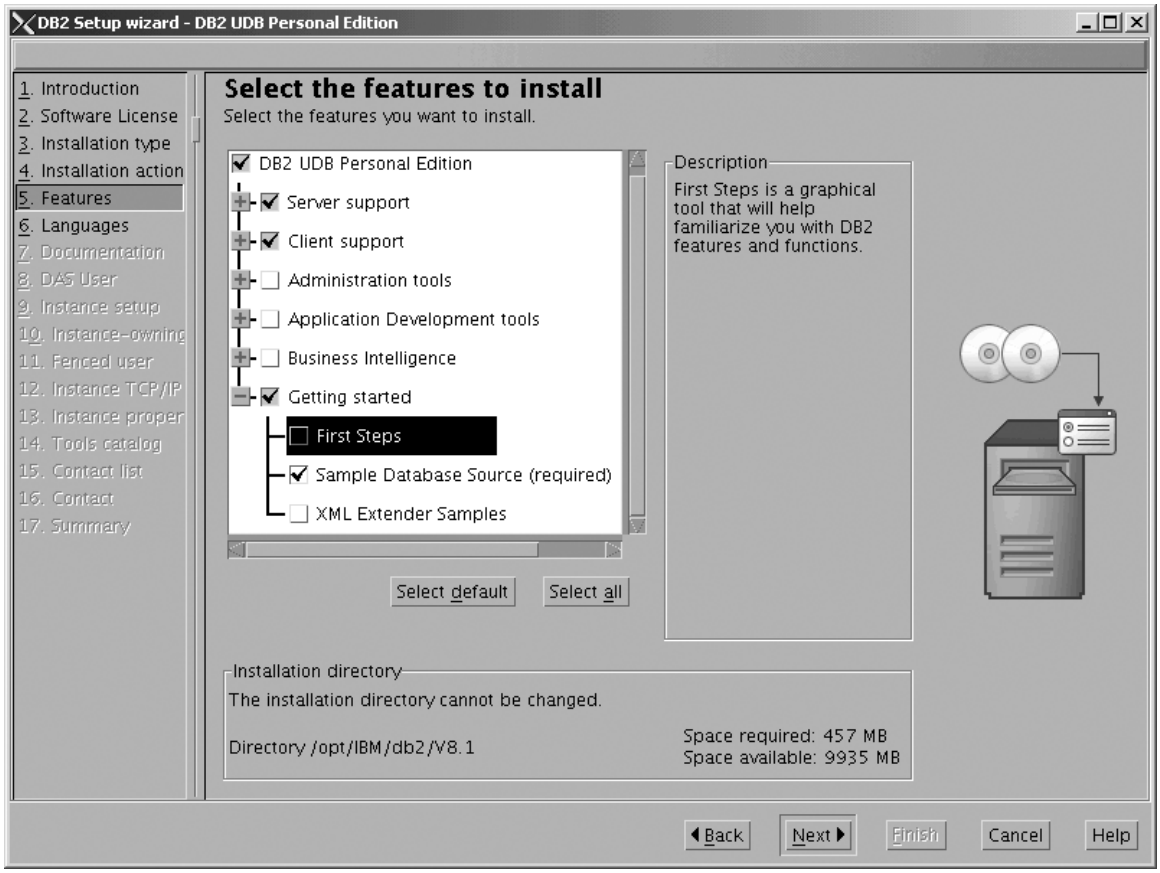


Figure 36. DB2 Setup wizard - Select the features to install page; First Steps option deselected for installation

e. Click **Next**. The "Languages" page opens.

8. On the "Languages" page, English is the only language support that is installed by default.

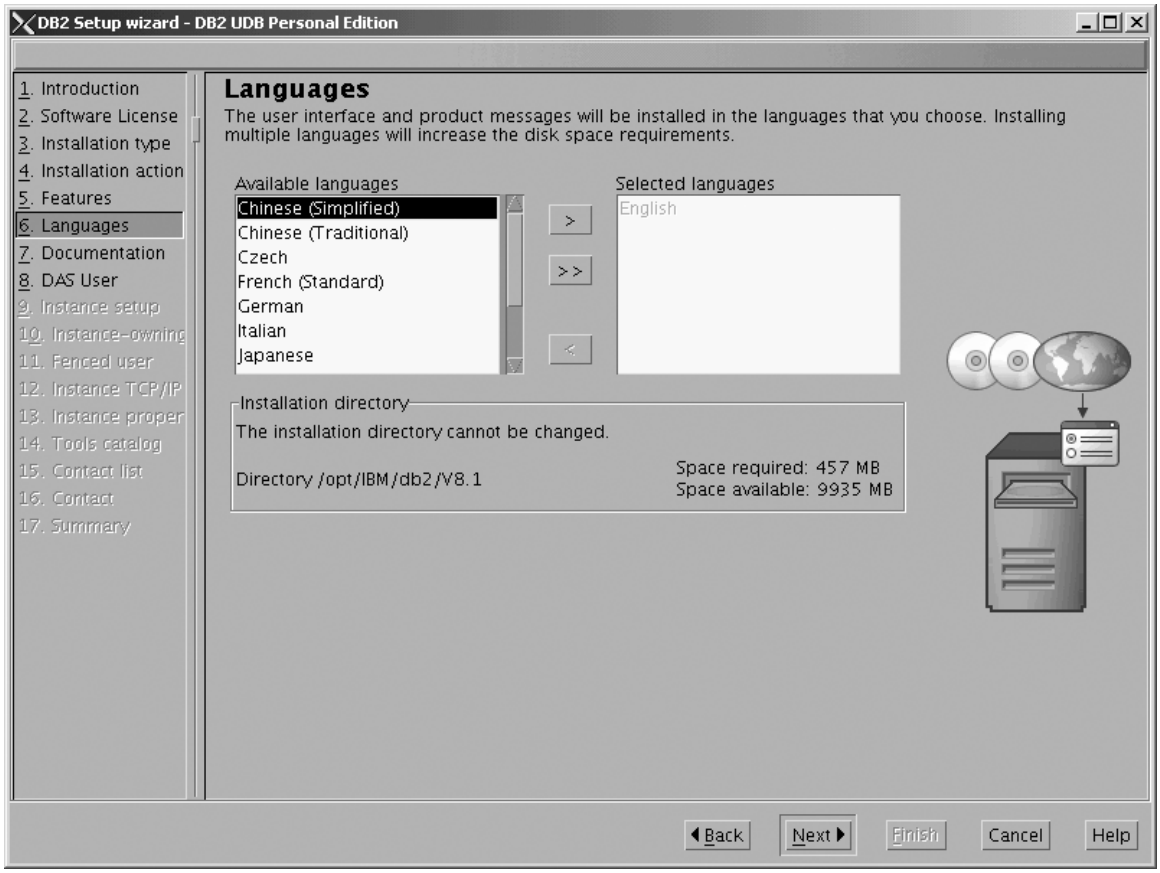


Figure 37. DB2 Setup wizard - Languages page; English language support selected for installation

Do one of the following:

- If you do not need to install any languages other than English, click **Next**. The "Specify the location of the DB2 Information Center" page opens.
- If you need to install language support other than English, select the language you want from the **Available languages** box, and click **>** to move it to the **Selected languages** box. Repeat this procedure for every language that you need to install. When you have selected all the languages that you require, click **Next**. The "Specify the location of the DB2 Information Center" page opens.

9. On the "Specify the location of the DB2 Information Center" page:
   a. Ensure that the **On the IBM Web site** radio button is selected.

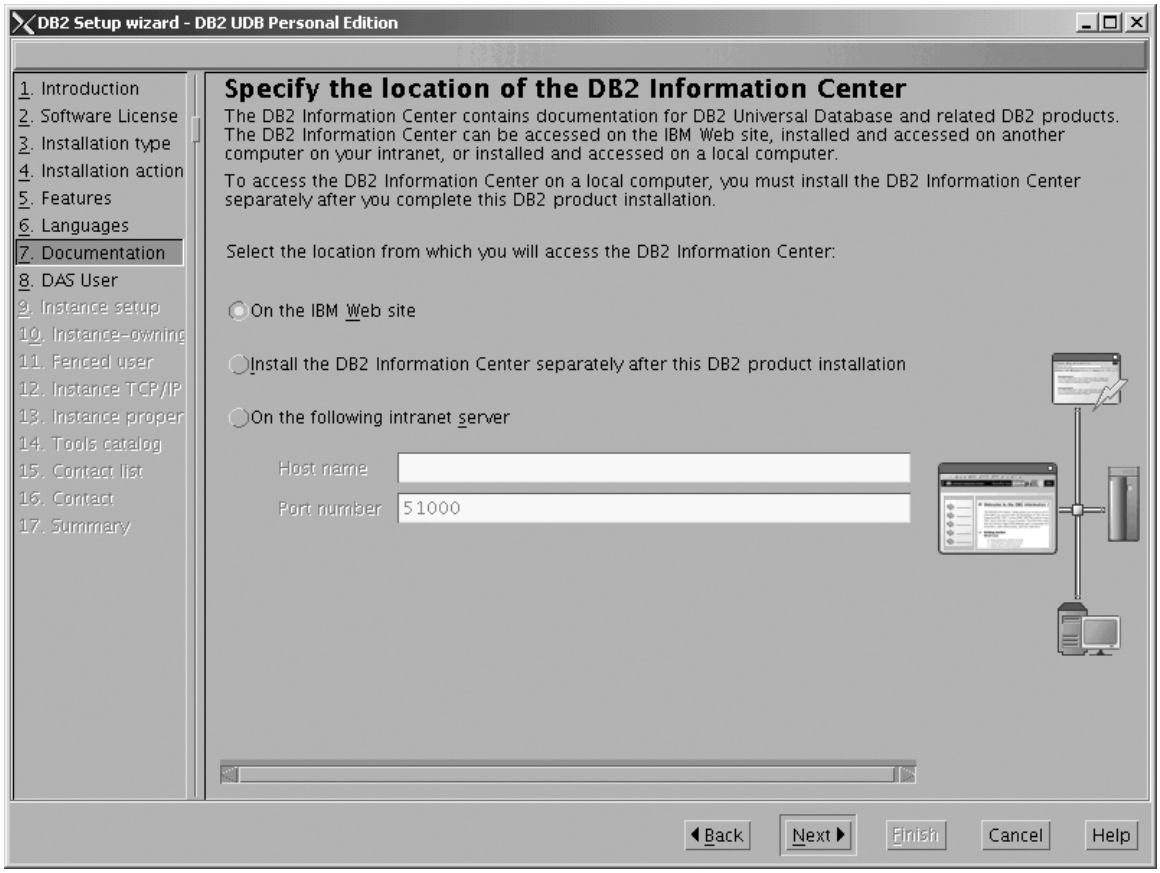


Figure 38. DB2 Setup wizard - Specify the location of the DB2 Information Center; On the IBM Web site option selected

b. Click **Next**. The ″Set user information for the DB2 Administration Server″ page opens.

10. On the ″Set user information for the DB2 Administration Server″ page:
    a. Select the **Existing user** radio button.
    b. Use the **...** of the **User name** field to select the user that you want.

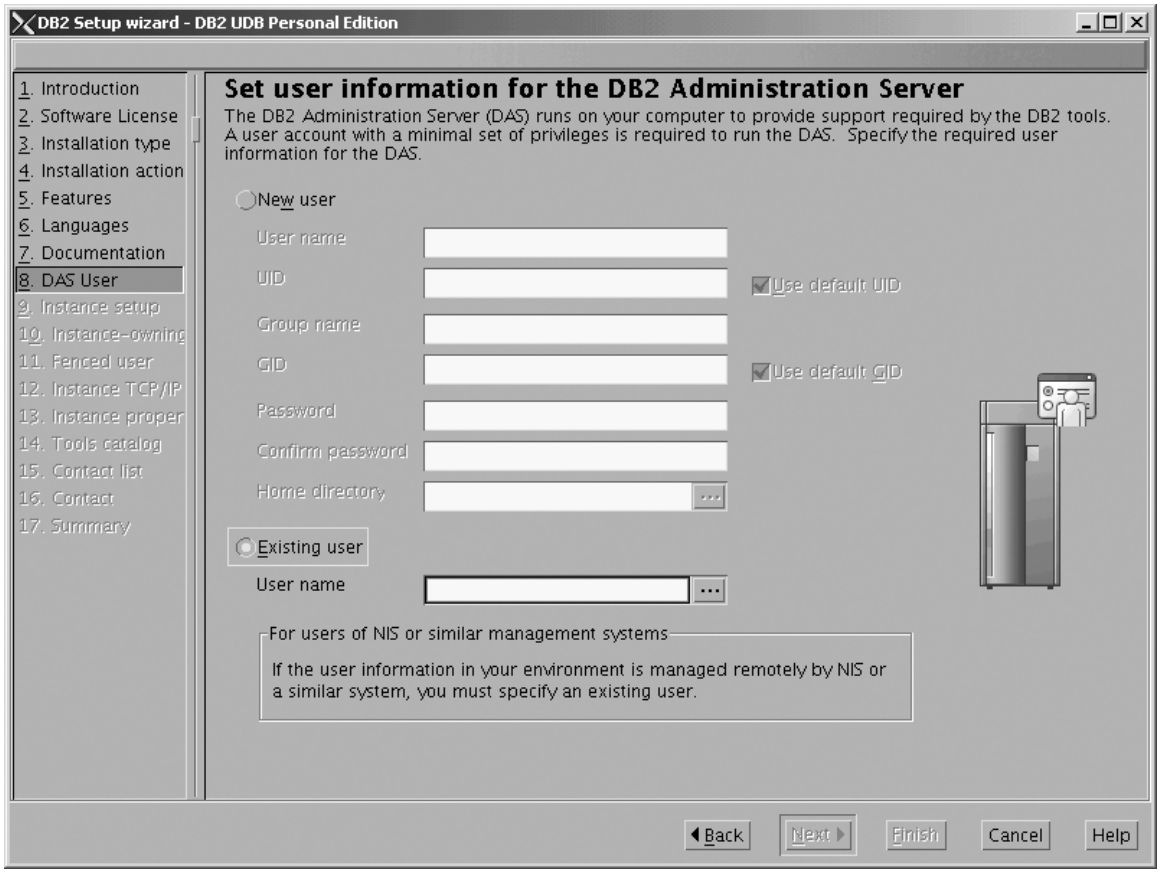


Figure 39. DB2 Setup wizard - Set user information for the DB2 Administration Server page

c. Click **Next**. The "Set up a DB2 instance" page opens.

11. On the "Set up a DB2 instance" page:

    a. Select the **Create a DB2 instance** radio button.

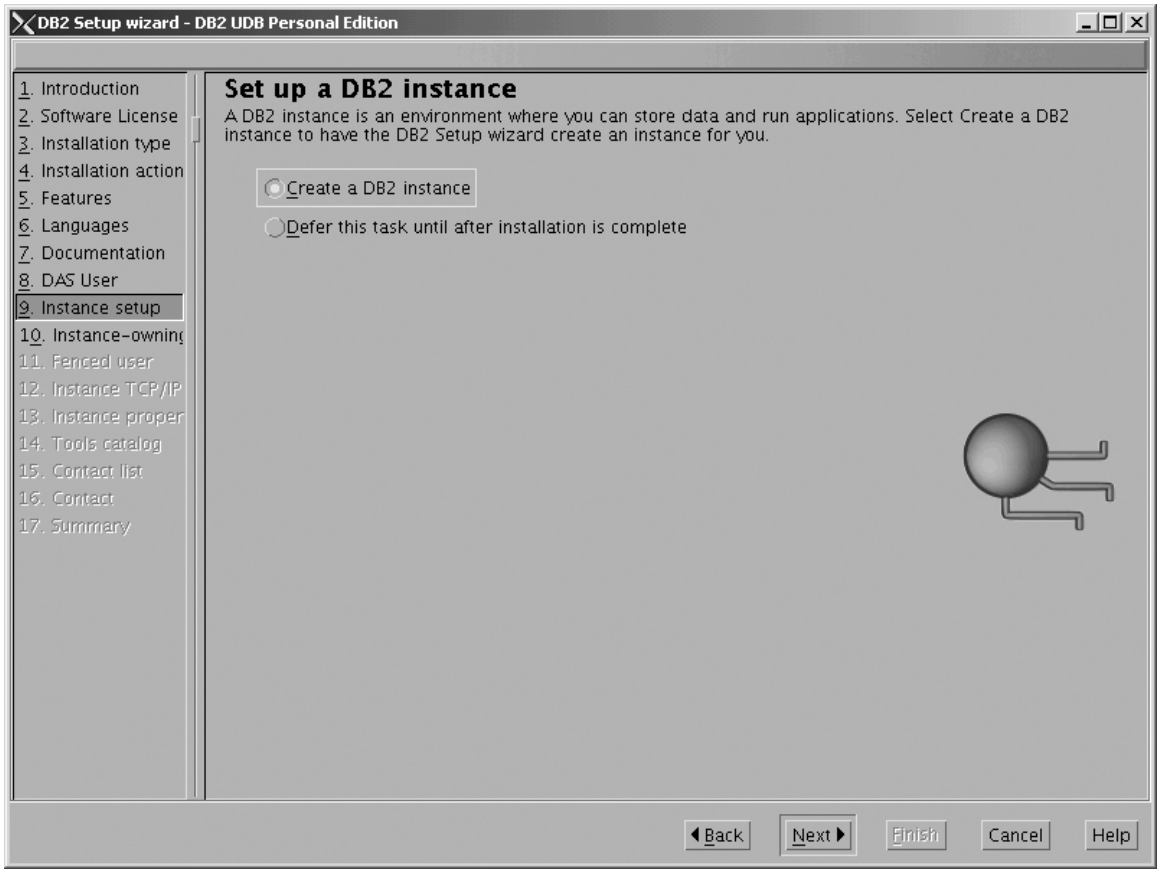


Figure 40. DB2 Setup wizard - Set up a DB2 instance page; Create a DB2 instance selected

b. Click **Next**. The "Set user information for the DB2 instance owner" page opens.

12. On the "Set user information for the DB2 instance owner" page:
    a. Select the **Existing user** radio button.
    b. Use the **...** of the **User name** field to select the user that you want.

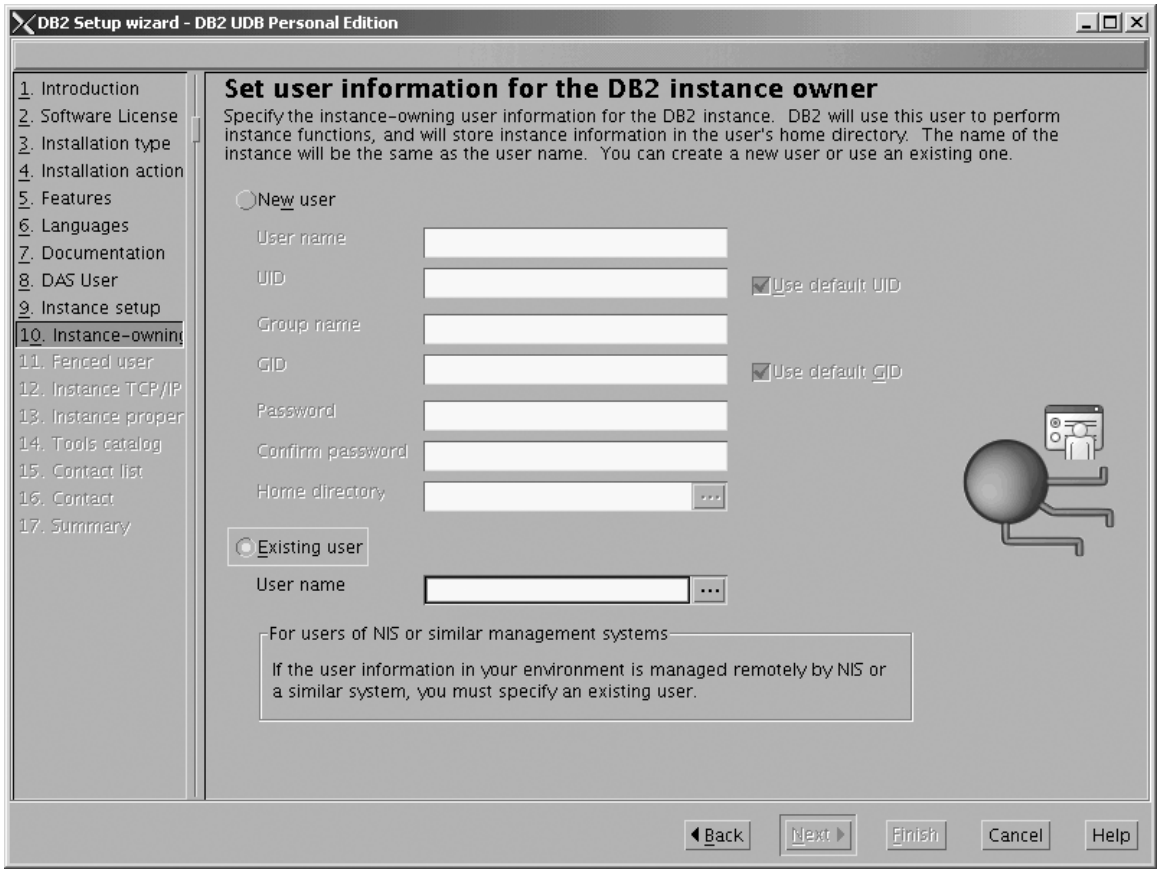


Figure 41. DB2 Setup wizard - Set user information for the DB2 instance owner page

c. Click **Next**. The "Set user information for the fenced user" page opens.

13. On the "Set user information for the fenced user" page:
    a. Select the **Existing user** radio button.
    b. Use the **...** of the **User name** field to select the user that you want.

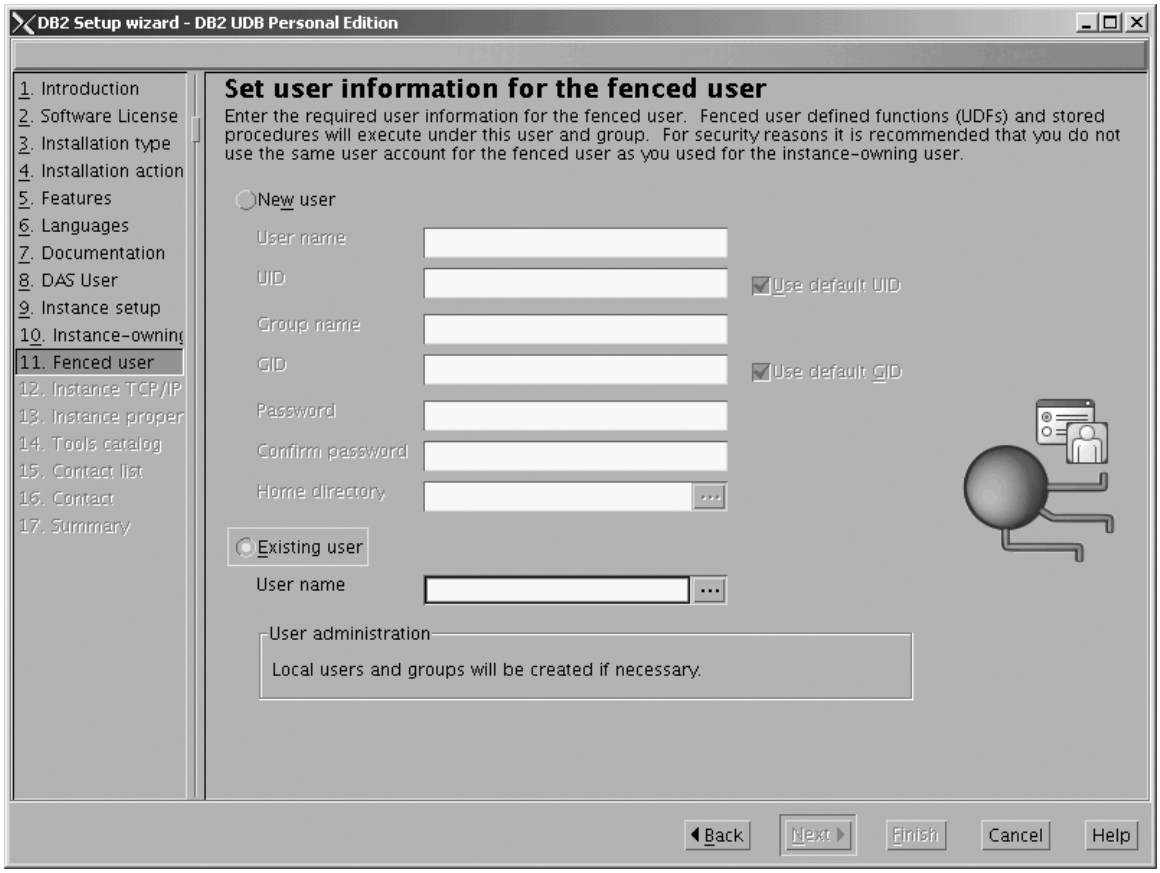


Figure 42. DB2 Setup wizard - Set user information for the fenced user page

c. Click **Next**. The "Configure DB2 instance TCP/IP communication" page opens.

14. On the "Configure DB2 instance TCP/IP communication" page:

a. Select the **Configure** radio button.

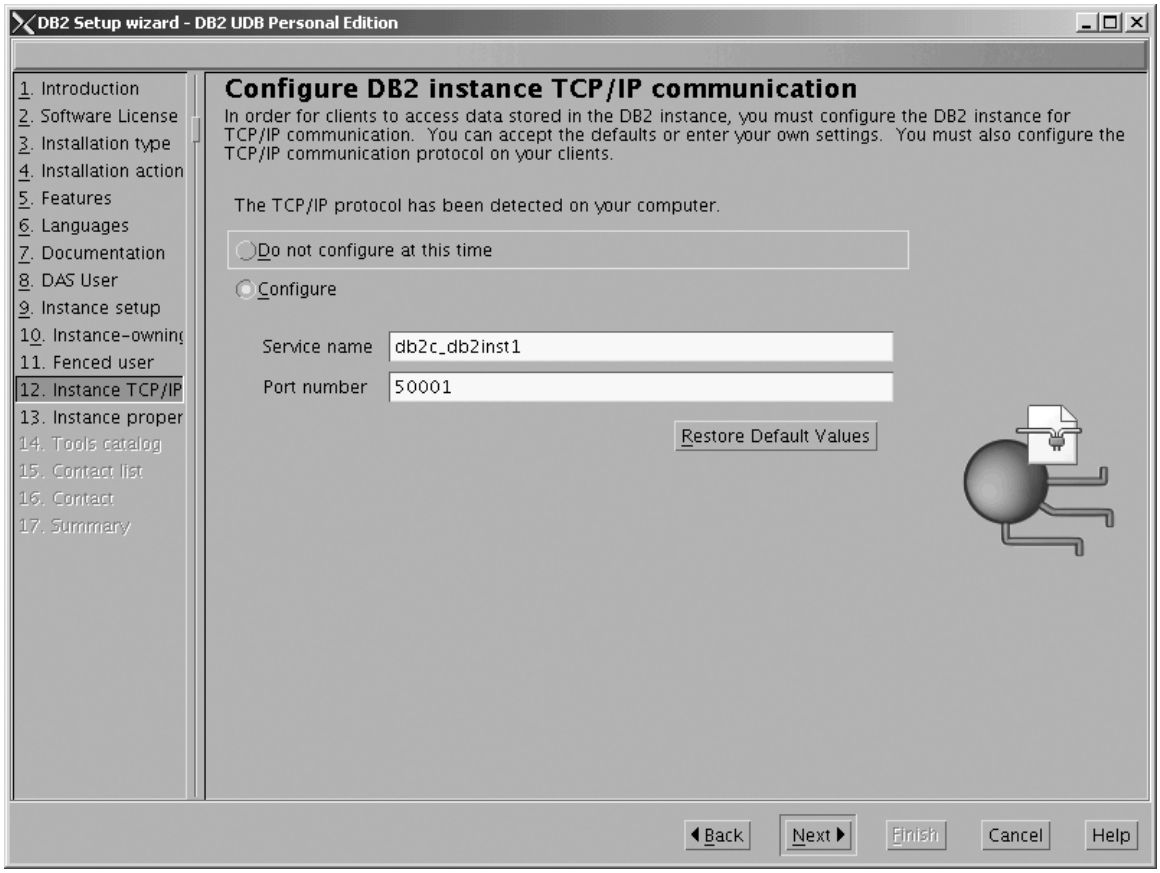


Figure 43. DB2 Setup wizard - Configure DB2 instance TCP/IP communication page

b. Click **Next**. The ″Set instance properties″ page opens.

15. On the ″Set instance properties″ page:

    a. Ensure that the **Autostart the instance at system setup** check box is not selected

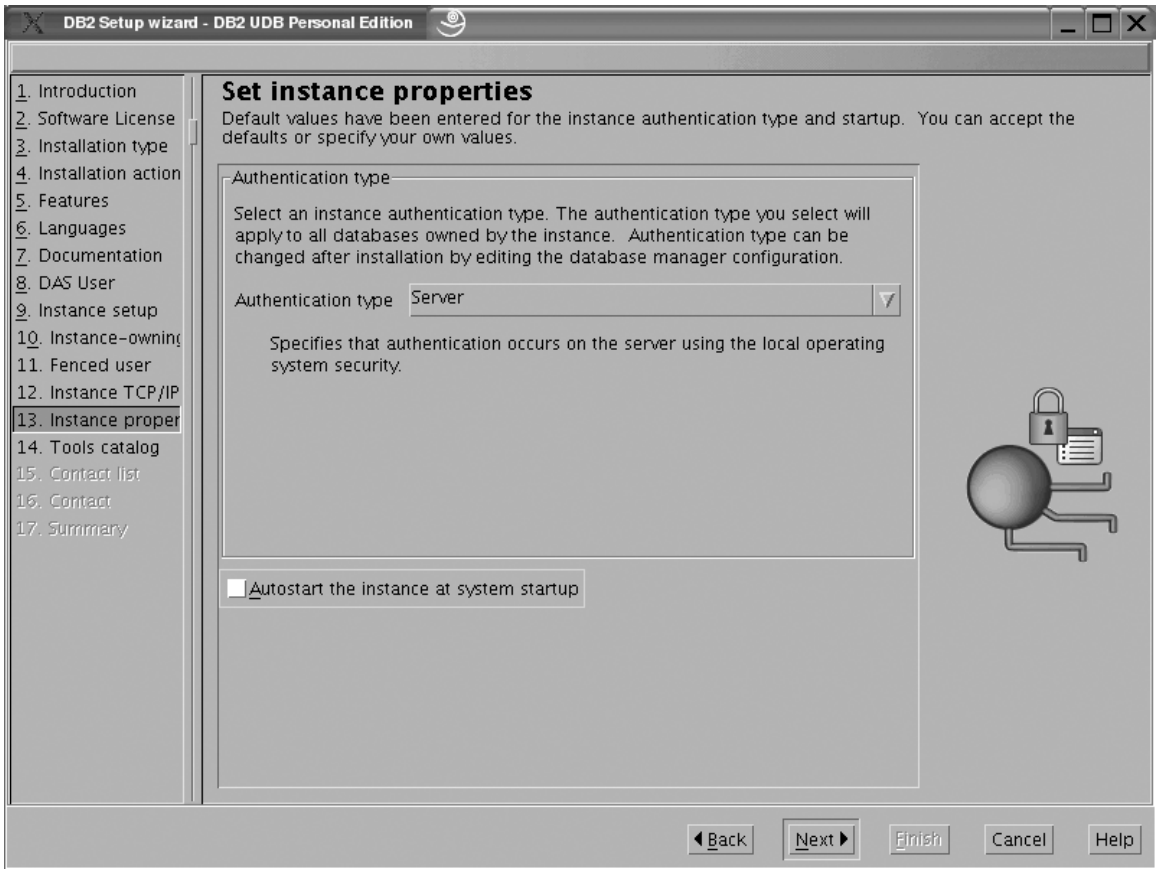


Figure 44. DB2 Setup wizard - Set instance properties page

b. Click **Next**. The "Prepare the DB2 tools catalog" page opens.

16. On the "Prepare the DB2 tools catalog" page:
    a. Select the **Do not prepare the DB2 tools catalog on this computer** radio button.

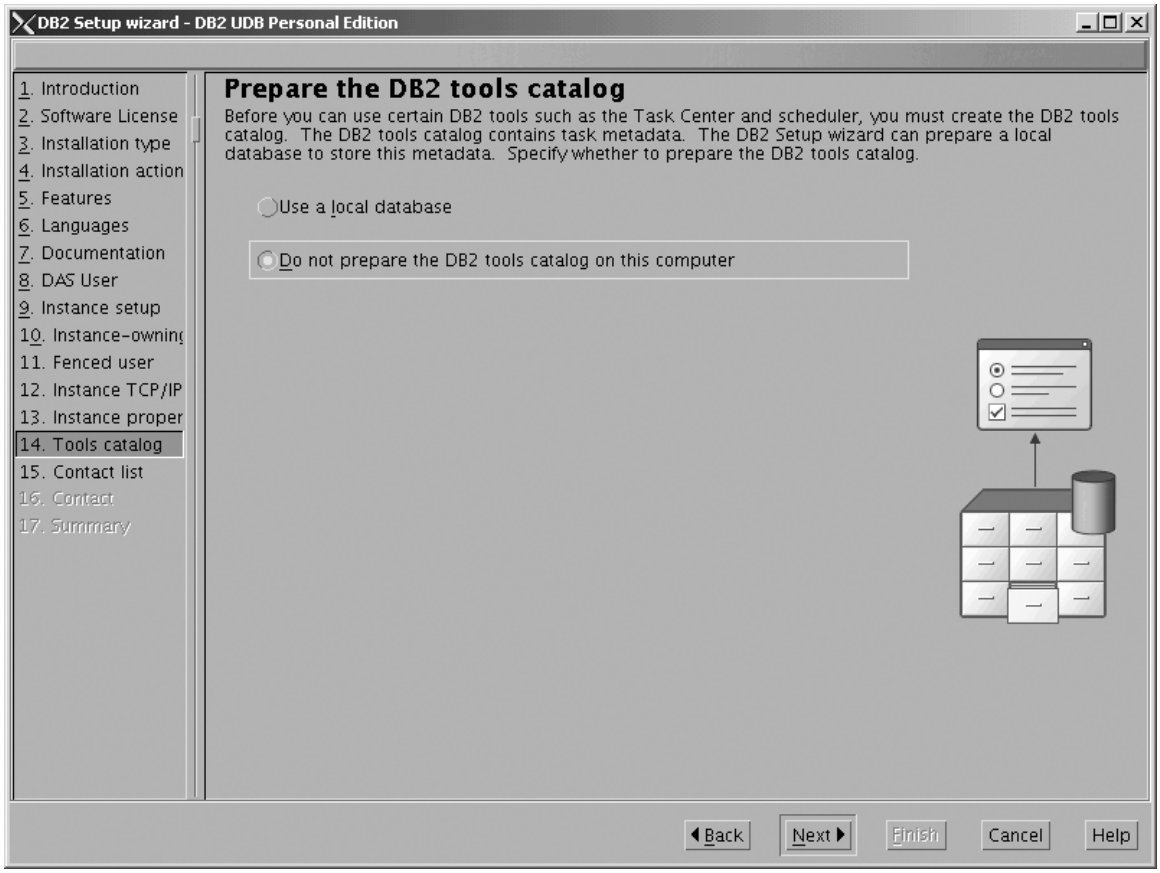


Figure 45. DB2 Setup wizard - Prepare the DB2 tools catalog page

b. Click **Next**. The "Set up the administration contact list" page opens.

17. On the "Set up the administration contact list" page:
    a. Select the **Local - Create a contact list on this system** radio button.
    b. Ensure that the **Enable notification** check box is deselected.

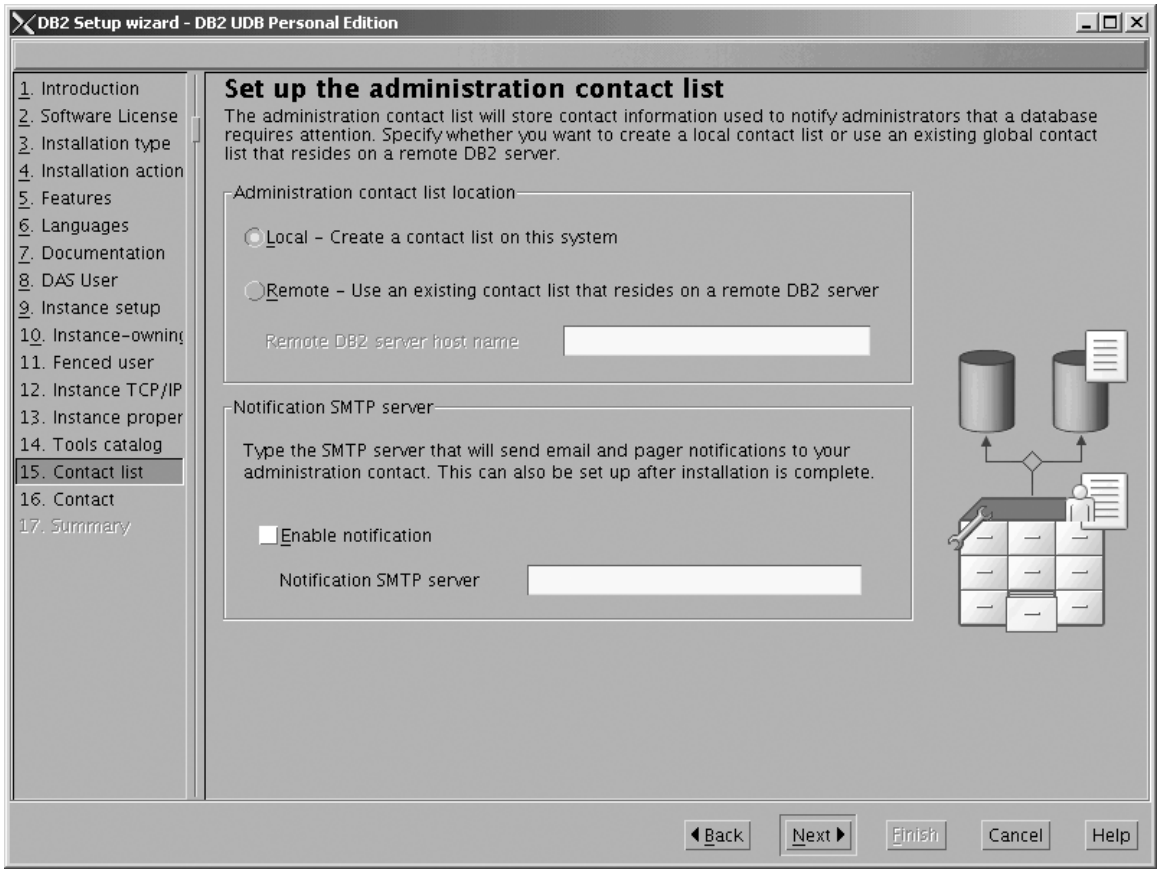


Figure 46. DB2 Setup wizard - Set up the administration contact list page

c. Click **Next**. Because the **Enable notification** check box was not selected on the "Set up the administration contact list" page, the following warning message is displayed:

Figure 47. DB2 Setup wizard - Warning message

Click **OK**. The ″Specify a contact for health monitor notification″ page opens.

18. On the ″Specify a contact for health monitor notification″ page:
    a. Select the **Defer this task until after installation is complete** radio button.

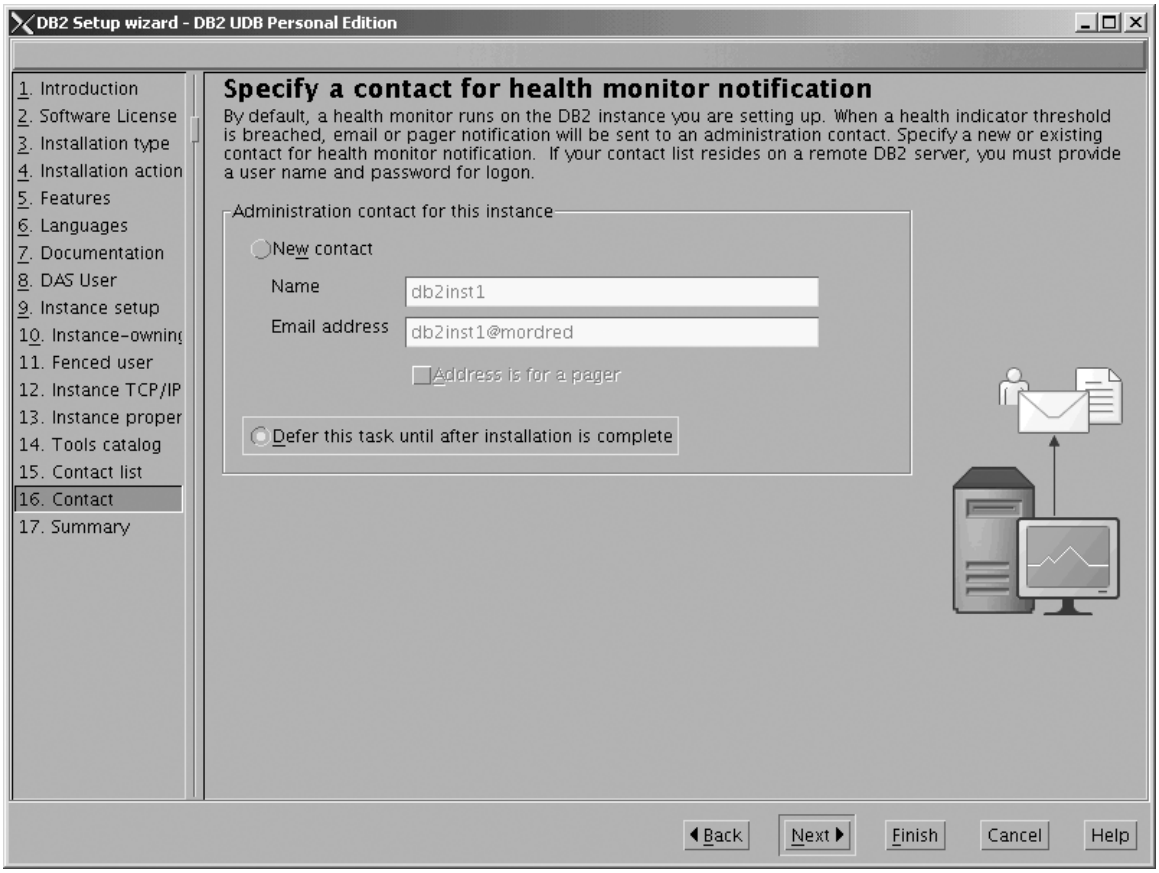


Figure 48. DB2 Setup wizard - Specify a contact for health monitor notification page

    b. Click **Next**. The ″Start copying files″ page opens.

19. On the ″Start copying files″ page, click **Finish** to begin installing DB2 UDB Personal Edition on your computer.

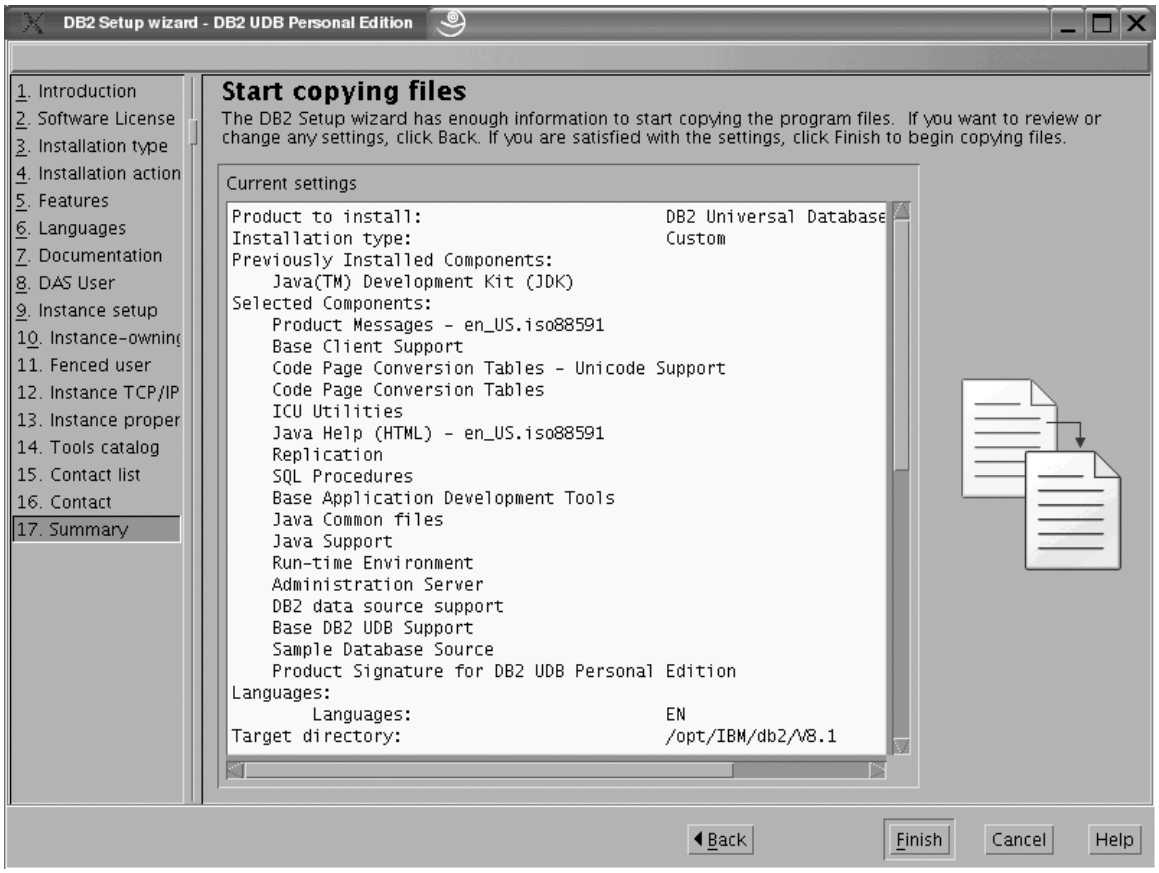


Figure 49. DB2 Setup wizard - Start copying files page

The "Installing DB2 UDB Personal Edition" page opens.

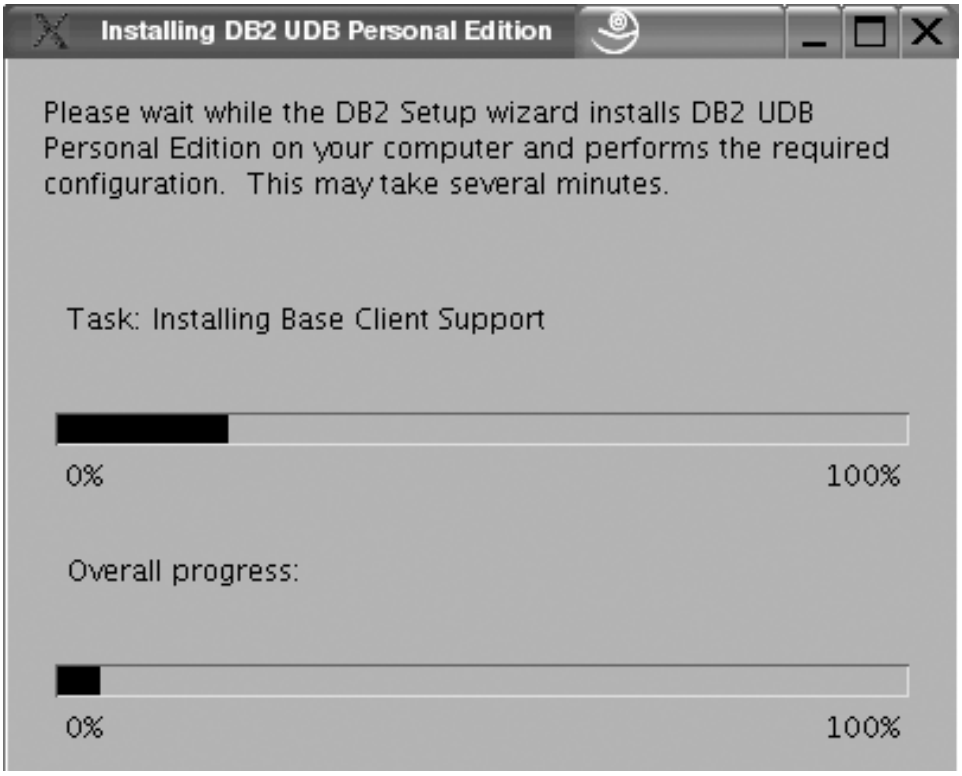


Figure 50. DB2 Setup wizard - Installing DB2 UDB Personal Edition page

When the installation completes, the ″Setup is complete″ page opens.

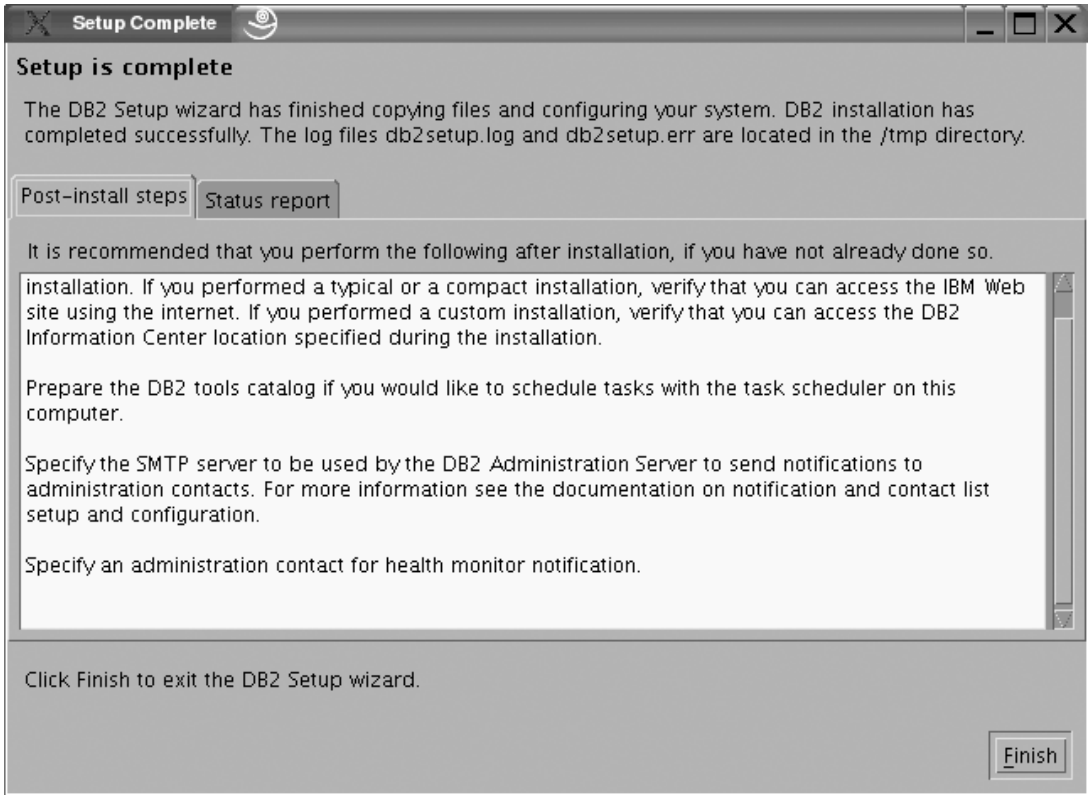


Figure 51. DB2 Setup wizard - Setup is complete page

Click **Finish** to exit from the ″DB2 Setup wizard″.

After DB2 Personal Edition and the DB2 Application Development Client are installed, see the topic on configuring DB2 to be Common Criteria compliant in the *DB2 Universal Database Common Criteria Certification: Administration and User Documentation* book.

Part 3. Post-installation tasks

Chapter 4. Installing DB2 FixPaks

Applying the latest FixPak (Windows and UNIX)

A DB2 FixPak contains updates and fixes for problems (Authorized Program Analysis Reports, or "APARs") found during testing at IBM, as well as fixes for problems reported by customers. Every FixPak is accompanied by a document, called APARLIST.TXT, that describes the fixes it contains.

FixPaks are cumulative. This means that the latest FixPak for any given version of DB2 contains all of the updates from previous FixPaks for the same version of DB2. It is recommended that you keep your DB2 environment running at the latest FixPak level to ensure problem-free operation.

When installing a FixPak on a partitioned ESE system, all participating computers must have the same FixPak installed while the system is offline.

Prerequisites:

Each FixPak has specific prerequisites. See the FixPak Readme that accompanies the FixPak for more information.

Restrictions:

If you are installing DB2 Universal Database to set up a Common Criteria certified configuration, do not install FixPaks. Because FixPaks are not evaluated for Common Criteria compliance, installing a FixPak makes the configuration no longer compliant.

Procedure:

1. Download the latest DB2 FixPak from the IBM DB2 UDB and DB2 Connect Online Support Web site at http://www.ibm.com/software/data/db2/udb/winos2unix/support. Each FixPak contains a set of Release Notes and a Readme. The Readme provides instructions for installing the FixPak.
2. Install the FixPak.
3. On UNIX systems, run the `db2iupdt` command to update the instance.

Related concepts:

- "Common Criteria certification of DB2 Universal Database products" in the *Infrastructure Topics (DB2 Common Files)*

Related tasks:

- "Verifying the installation using the command line processor (CLP)" on page 81

Chapter 5. Verifying the installation of DB2

Verifying the installation using the command line processor (CLP)

You can verify the installation by creating a sample database and running SQL commands to retrieve sample data.

Prerequisites:

- The sample database component must be installed on your system and is included in a typical installation.
- You require a user with SYSADM authority.

Procedure:

To verify the installation:

1. Log on to the system as a user with SYSADM authority.
2. Start the database manager by entering the `db2start` command.
3. Enter the `db2sampl` command to create the `SAMPLE` database.

   This command may take a few minutes to process. There is no completion message; when the command prompt returns, the process is complete.

   The `SAMPLE` database is automatically cataloged with the database alias `SAMPLE` when it is created.
4. Enter the following DB2 commands from a DB2 command window to connect to the `SAMPLE` database, retrieve a list of all the employees that work in department 20, and reset the database connection:

   ```
   db2 connect to sample
   db2 "select * from staff where dept = 20"
   db2 connect reset
   ```

After you have verified the installation, you can remove the `SAMPLE` database to free up disk space. Enter the `db2 drop database sample` command to drop the `SAMPLE` database.

Related tasks:

- "Verifying the installation of DB2 servers using First Steps" in the *Quick Beginnings for DB2 Servers*

Part 4. Configuring a client-to-server connection

Chapter 6. Configuring a connection using the Command Line Processor (CLP)

Configuring client-to-server connections using the command line processor (CLP)

This task describes how to configure a connection from a DB2 client to a remote database server using the command line processor (CLP).

You can also configure a client to server connection using the Configuration Assistant.

Prerequisites:

Before you configure a client to server connection:

- Communications must be configured on the DB2 server and the DB2 client. Depending on your operating system, communications can be Named Pipes, NetBIOS, or TCP/IP.

  Note: For Common Criteria compliant configurations, only TCP/IP is supported.
- You must use one of the supported client to server connection scenarios. The connection scenarios outline which communication method or protocol can be used by which operating system.

Restrictions:

- DB2 UDB servers on Windows and UNIX no longer accept inbound client connections using APPC. DB2 clients can still connect to host systems using APPC if they have DB2 Connect installed.
- You cannot use NetBIOS to connect from a Windows client to a server running on a UNIX-based system.

Procedure:

To configure a client-to-server connection using the command line processor:

1. Identify and record the communication parameter values.
2. Configure the appropriate communication protocol on the client. No configuration is required for Named Pipes.
3. Catalog the database node from the DB2 client using one of the following methods. Your choice of method is based on the communications protocol setup on the system you want to catalog.
   - Catalog the TCP/IP node from the DB2 client.
   - Catalog the NetBIOS node from the DB2 client.
   - Catalog the Named Pipes node from the DB2 client.
4. Catalog the database on the DB2 client.
5. Test the client-to-server connection.

Related tasks:

- "Cataloging a TCP/IP node from the DB2 client" on page 86
- "Cataloging a NetBIOS node from the DB2 client" in the *Installation and Configuration Supplement*
- "Cataloging a Named Pipes node from the client" in the *Installation and Configuration Supplement*
- "Cataloging a database from a DB2 client using the CLP" on page 87
- "Testing the client-to-server connection using the CLP" on page 89
- "Configuring client-to-server connections using the Configuration Assistant (CA)" in the *Quick Beginnings for DB2 Servers*

Node cataloging

Cataloging a TCP/IP node from the DB2 client

Cataloging a TCP/IP node adds an entry to the DB2 client's node directory that describes the remote node. This entry specifies the chosen alias (*node_name*), the *hostname* (or *ip_address*), and the *svcename* (or *port_number*) that the client uses to access the remote host.

Prerequisites:

- You must have system administration (SYSADM) or system control (SYSCTRL) authority, or have the *catalog_noauth* database manager configuration parameter set to `ON`. You cannot catalog a node using root authority.

Procedure:

To catalog a TCP/IP node:

1. Log on to the system as a user with system administration (SYSADM) or system control (SYSCTRL) authority.
2. If you are using a UNIX client, set up the instance environment. Run the start-up script:

   For bash, Bourne or Korn shell

   ```
   . INSTHOME/sqllib/db2profile
   ```

   For C shell

   ```
   source INSTHOME/sqllib/db2cshrc
   ```

   where *INSTHOME* represents the home directory of the instance.
3. Start the DB2 command line processor. On Windows, issue the `db2cmd` command from a command prompt. On UNIX, issue the `db2` command from a command prompt.
4. Catalog the node by entering the following commands in the command line processor:

   ```
   db2 => catalog tcpip node node_name remote hostname|ip_address
     server service_name|port_number [remote_instance instance_name]
     [system system_name] [ostype  os_type]

   db2 => terminate
   ```

   where:

   - `node_name` represents a nickname you can set for the computer that has the database you want to catalog.

- `remote_instance` represents the name of the server instance on which the database resides.
- `system` represents the DB2 system name that is used to identify the server.
- `ostype` represents the operating system type of the server.

Notes:

a. The `terminate` command is needed to refresh the directory cache.
b. Although `remote_instance`, `system`, and `ostype` are optional, they are required for users who want to use the DB2 tools.
c. The *service_name* used on the client does not have to be the same as the one on the server. However, the port numbers that they map to *must* match.

Example:

To catalog a node that you want to call *db2node* on a remote server *myserver.ibm.com* that is using port number *50000*, you would enter the following from a **db2** prompt:

```
db2 => catalog tcpip node db2node remote myserver server 50000
DB20000I  The CATALOG TCPIP NODE command completed successfully.
DB21056W  Directory changes may not be effective until the directory cache is
refreshed.

db2 => terminate
DB20000I  The TERMINATE command completed successfully.
```

Related tasks:

- "Configuring TCP/IP communications on the client using the CLP" in the *Installation and Configuration Supplement*
- "Testing the client-to-server connection using the CLP" on page 89

Related reference:

- "CATALOG TCPIP NODE Command" in the *Command Reference*

Cataloging a database from a DB2 client using the CLP

This task describes how to catalog a database from a DB2 client using the DB2 command line processor (CLP).

Before a client application can access a remote database, the database must be cataloged on the client. When you create a database, the database is automatically cataloged on the server with a database alias that is the same as the database name, unless a different database alias was specified.

The information in the database directory, along with the information in the node directory (unless you are cataloging a local database where a node is not needed), is used on the DB2 client to establish a connection to the remote database.

Restrictions:

DB2 does not support using root authority to catalog a database.

Prerequisites:

- You require a valid DB2 user ID.

- You must have system administration (SYSADM) or system control (SYSCTRL) authority, or have the *catalog_noauth* database manager configuration parameter set to ON.
- The following parameter values are applicable when cataloging a *remote* database:
  - Database name
  - Database alias
  - Node name
  - Authentication type (optional)
  - Comment (optional)

  Refer to the parameter values worksheet for cataloging a database for more information about these parameters and to record the values that you use.
- The following parameter values are applicable when cataloging a *local* database:
  - Database name
  - Drive
  - Database alias
  - Authentication type (optional)
  - Comment (optional)

  Local databases can be uncataloged and recataloged at any time.

Procedure:

To catalog a database on the client:

1. Log on to the system with a valid DB2 user ID.
2. Optional. Update the Your Value column in the Parameter values worksheet for cataloging a database.
3. If you are using DB2 UDB on a UNIX platform, set up the instance environment. Run the start-up script:

   For bash, Bourne or Korn shell

   ```
   . INSTHOME/sqllib/db2profile
   ```

   For C shell

   ```
   source INSTHOME/sqllib/db2cshrc
   ```

   where: *INSTHOME* represents the home directory of the instance.
4. Start the DB2 command line processor. On Windows, issue the db2cmd command from a command prompt. On UNIX, issue the db2 command from a command prompt.
5. Catalog the database by entering the following commands in the command line processor:

   ```
   db2 => catalog database database_name as database_alias at
      node node_name [ authentication auth_value ]
   ```

   where:
   - database_name represents the name of the database you want to catalog.
   - database_alias represents a local nickname for the database you want to catalog.
   - node_name represents a nickname you can set for the computer that has the database you want to catalog.

- `auth_value` specifies the type of authentication that will take place when connecting to the database. This parameter defaults to the authentication type specified on the server. Specifying an authentication type can result in a performance benefit. SERVER, CLIENT, SERVER_ENCRYPT, and KERBEROS are the authentication value options.

  Note: For Common Criteria compliant configurations, only SERVER is supported.

Example:

To catalog a remote database called *sample* so that it has the local database alias *mysample*, on the node *db2node* using authentication *server*, enter the following commands:

```
db2 => catalog database sample as mysample at node db2node
       authentication server

db2 => terminate
```

Related tasks:

- "Testing the client-to-server connection using the CLP" on page 89

Related reference:

- "Parameter values worksheet for cataloging a database" in the *Installation and Configuration Supplement*
- "CATALOG DATABASE Command" in the *Command Reference*

Testing the client-to-server connection using the CLP

After cataloging the node and the database, you should connect to the database to test the connection.

Prerequisites:

- The database node and database must be cataloged before you can test the connection.
- The values for *userid* and *password* must be valid for the system on which they are authenticated. By default, authentication takes place on the server. Authentication is determined by the *authentication* parameter specified in the server's database manager configuration file. If the authentication configured on the client doesn't match or isn't compatible with what is configured on the server, you will receive an error.

  Note: For a Common Criteria compliant configuration, the *authentication* database manager configuration parameter must be set to SERVER.
- The database manager must be started with the correct protocol defined in DB2COMM. If it isn't started, then you can start the database manager by entering the `db2start` command on the database server.

Procedure:

To test the client to server connection:

1. If you are using DB2 on a UNIX platform, set up the instance environment. Run the start-up script:

For bash, Bourne or Korn shell

```
. INSTHOME/sqllib/db2profile
```

For C shell

```
source INSTHOME/sqllib/db2cshrc
```

where: *INSTHOME* represents the home directory of the instance.

2. Start the DB2 command line processor. On Windows, issue the `db2cmd` command from a command prompt. On UNIX, issue the `db2` command from a command prompt.
3. Type the following command on the client to connect to the remote database:

   ```
   db2 => connect to database_alias user userid
   ```

   For example, enter the following command:

   ```
   connect to mysample user jtris
   ```

   You will prompted to enter your password.

If the connection is successful, you receive a message showing the name of the database to which you have connected. A message similar to the following is given:

```
Database Connection Information
Database server = DB2/NT 8.1.0
SQL authorization ID = JTRIS
Local database alias = mysample
```

You can now work with the database. For example, to retrieve a list of all the table names listed in the system catalog table, enter the following SQL statement:

```
select tabname from syscat.tables
```

An implicit connection occurs when you issue an SQL statement followed by the `db2 terminate` command. To define a default database, run the `db2set db2dbdft = <dbname>` command. After running this command, you can, for example, run the `db2 select * from <table>` command without first connecting to a database. This command uses the value defined in **db2dbdft**. To connect to a database other than the default, you must use the CONNECT command to explicitly connect to the database of your choice.

When you are finished using the database connection, enter the `connect reset` command to end the database connection.

Related reference:

- "db2start - Start DB2 Command" in the *Command Reference*
- "db2set - DB2 Profile Registry Command" in the *Command Reference*

Part 5. Appendixes

Appendix. Language Support

Changing the DB2 interface language (Windows)

The interface language of DB2 is the language that appears in messages, help, and graphical tool interfaces. When installing DB2, you have the option of installing support for one or more languages. If, at some time after installation, you want to change the interface language for DB2 to one of the other installed interface languages, use the steps outlined in this task.

Do not confuse languages supported by DB2 with languages supported by the DB2 interface. Languages supported by DB2, that is, languages that *data* can exist in, are a superset of languages supported by the DB2 interface.

Prerequisites:

The DB2 interface language you want to use must be installed on your system. DB2 interface languages are selected and installed when you install DB2 using the DB2 Setup wizard. If you change the interface language of DB2 to a supported interface language that has not been installed, the DB2 interface language will default to the operating system language first, and if that is not supported, English.

Procedure:

Changing the interface language for DB2 on Windows requires that you change the default language setting for your Windows operating system.

To change the DB2 interface language on Windows:

1. Through the Control Panel on your Windows operating system, select **Regional Options**.
2. In the Regional Options dialog window, change the default language setting for the system to the language in which you want to interface with DB2.

Refer to your operating system help for additional information about changing the default system language.

Related reference:

- "Supported territory codes and code pages" in the *Administration Guide: Planning*
- "Supported DB2 interface languages" on page 94

Changing the DB2 interface language (UNIX)

The interface language of DB2 is the language that appears in messages, help, and graphical tool interfaces. When installing DB2, you have the option of installing support for one or more languages. If, at some time after installation, you want to change the interface language for DB2 to one of the other installed interface languages, use the steps outlined in this task.

Do not confuse languages supported by DB2 with languages supported by the DB2 interface. Languages supported by DB2, that is, languages that *data* can exist in, are a superset of languages supported by the DB2 interface.

Prerequisites:

Support for the DB2 interface language you want to use must be installed on your system. DB2 interface language support is selected and installed when you install DB2 using the DB2 Setup wizard. If you change the interface language of DB2 to a supported interface language that has not been installed, the DB2 interface language will default to the operating system language first, and if that is not supported, English.

Procedure:

To change the DB2 interface language on UNIX systems, set the LANG environment variable to the desired locale.

For example, to interface with DB2 in French using DB2 for AIX, you must have French language support installed and you must set the LANG environment variable to a French locale, for example, fr_FR.

Related reference:

- "Supported territory codes and code pages" in the *Administration Guide: Planning*
- "Supported DB2 interface languages" on page 94

Supported DB2 interface languages

DB2 language support for DB2 interfaces can be categorized into server group languages and client group languages. Server group languages will translate most messages, help, and DB2 graphical interface elements. Client group languages will translate the DB2 Run-Time Client component, which will include most messages and certain help documentation.

Server group languages include: Brazilian Portuguese, Czech, Danish, Finnish, French, German, Italian, Japanese, Korean, Norwegian, Polish, Russian, Simplified Chinese, Spanish, Swedish, and Traditional Chinese.

Client group languages include: Arabic, Bulgarian, Croatian, Dutch, Greek, Hebrew, Hungarian, Portuguese, Romanian, Slovak, Slovenian, and Turkish.

Do not confuse languages supported by DB2 with languages supported by the DB2 interface. Languages supported by DB2 that is, languages that *data* can exist in, are a superset of languages supported by the DB2 interface.

Related tasks:

- "Changing the diagnostic error level before DB2 migration" in the *Quick Beginnings for DB2 Servers*
- "Changing the DB2 interface language (Windows)" on page 93
- "Changing the DB2 interface language (UNIX)" on page 93

Related reference:

- "National language versions" in the *Administration Guide: Planning*
- "Supported territory codes and code pages" in the *Administration Guide: Planning*

- "Conversion tables for code pages 923 and 924" in the *Administration Guide: Planning*
- "Conversion table files for euro-enabled code pages" in the *Administration Guide: Planning*

Language identifiers for running the DB2 Setup wizard in another language

If you want to run the DB2 Setup wizard in a language different from the default language on your computer, you can start the DB2 Setup wizard manually, specifying a language identifier. The language must be available on the platform where you are running the installation.

Table 3. Language identifiers

Language	Language identifier
Arabic	ar
Brazilian Portuguese	br
Bulgarian	bg
Chinese, Simplified	cn
Chinese, Traditional	tw
Croatian	hr
Czech	cz
Danish	dk
Dutch	nl
English	en
Finnish	fi
French	fr
German	de
Greek	el
Hebrew	iw
Hungarian	hu
Italian	it
Japanese	jp
Korean	kr
Norwegian	no
Polish	pl
Portuguese	pt
Romanian	ro
Russian	ru
Slovak	sk
Slovenian	sl
Spanish	es
Swedish	se
Turkish	tr

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