DB2 - SERVER INSTALLATION

This chapter describes installation steps of DB2 server.

Introduction

You can download the DB2 Server trial version or purchase the product license from www.ibm.com. There are two separate DB2 servers available for downloading, depending upon the size of operating system, on which it is intended to execute. For example, if you want to download a DB2 server for 32bit Linux or UNIX operating system, then you need to download a 32 bit DB2 server. The same applies for 64bit DB2 server.

Hardware requirements

Processor : Minimum Core 2Duo

Ram : 1GB minimum

Hard disk : 30GB minimum

Software requirements

Before installing the DB2 server, your system needs to get ready with the required software on it. For Linux, you need to install "libstdc++6.0".

Checking system compatibility

Before installing DB2 Server, you need to verify if your system is compatible with the DB2 server. For confirming the compatibility, you need to call 'db2prereqcheck' command on command console.

Installing DB2 on Linux operating system

Open the Terminal and set the db2 installation image folder path on console using "CD <DB2 installation folder>" command. Then type "./db2prereqcheck" command, which confirms the compatibility of your system with DB2 server.
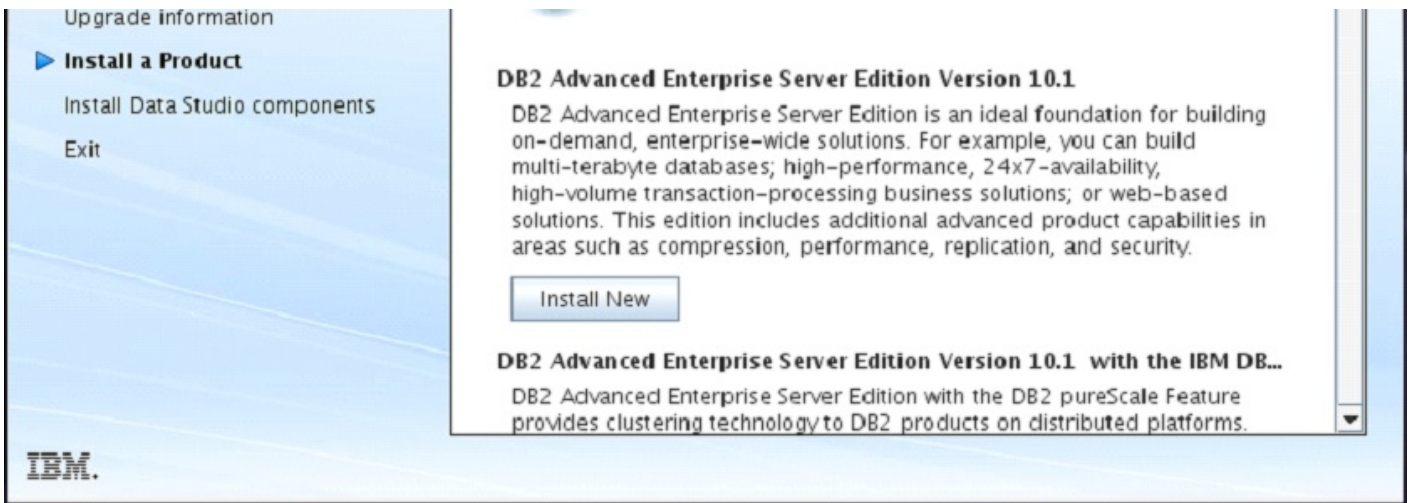
```
./db2prereqcheck
```

Figure-1 shows the compatibility requirements of Linux operating system and hardware system.

Follow the given steps for installing DB2 on your Linux system:

- Open the terminal.
- Login as root user.
- Open DB2 Installation folder.
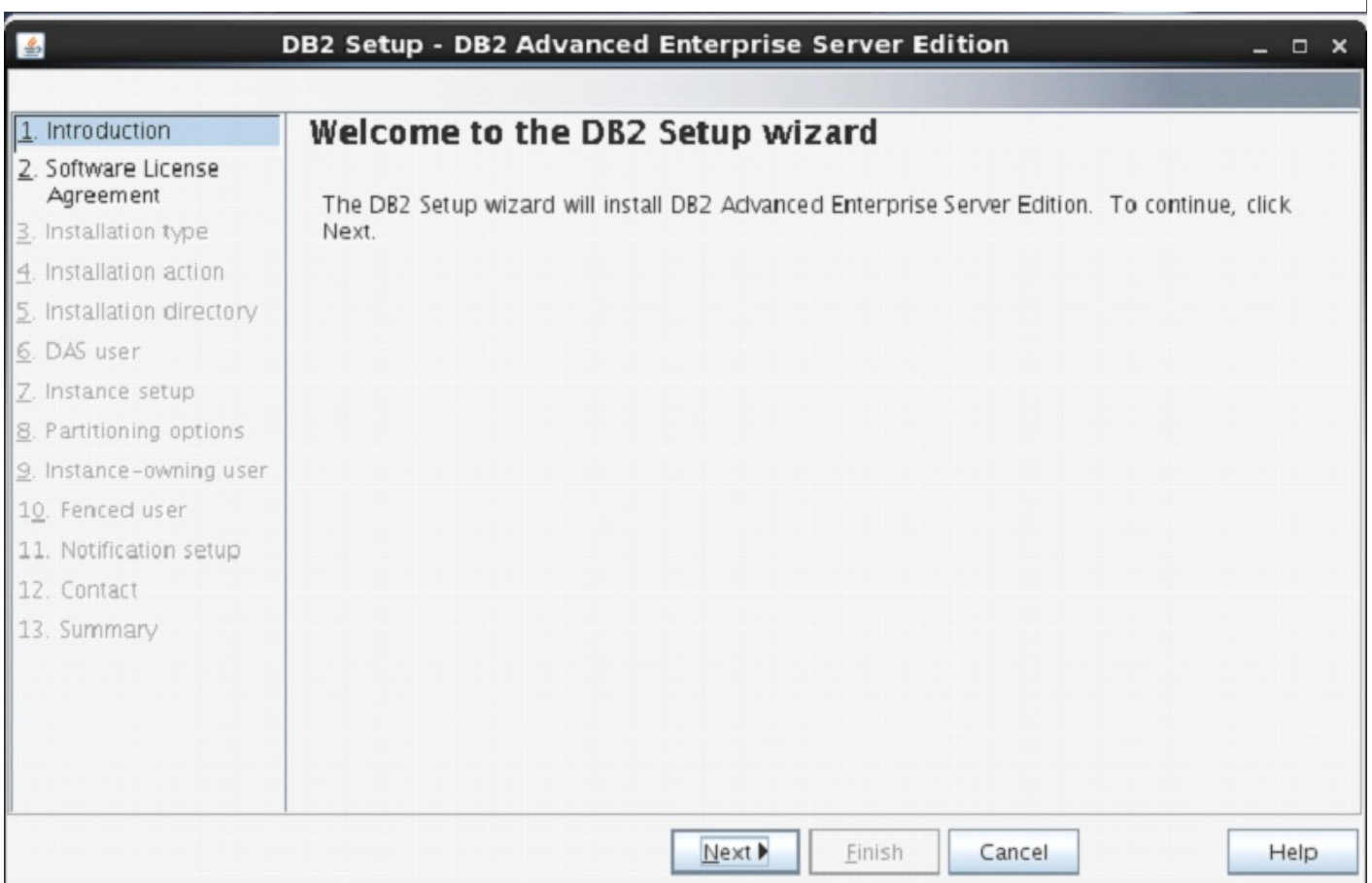- Type "./db2setup" and press Enter.

This process will start execution of DB2 server setup.

Type "./db2setup" and press Enter on root terminal to start setup process of DB2 Server.

On doing so, the "Set up Launch Pad" screen appears. [Figure-2]

On Setup Launch pad page, select "Install a Product" option from left side menu. Select option "DB2 Advanced Enterprise Server Edition". Select "Install New" Button.

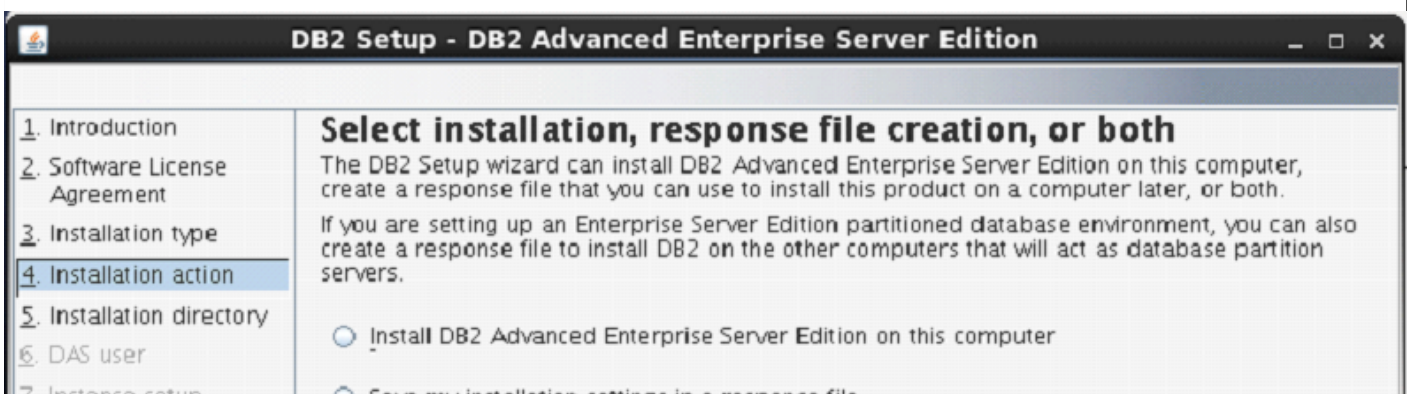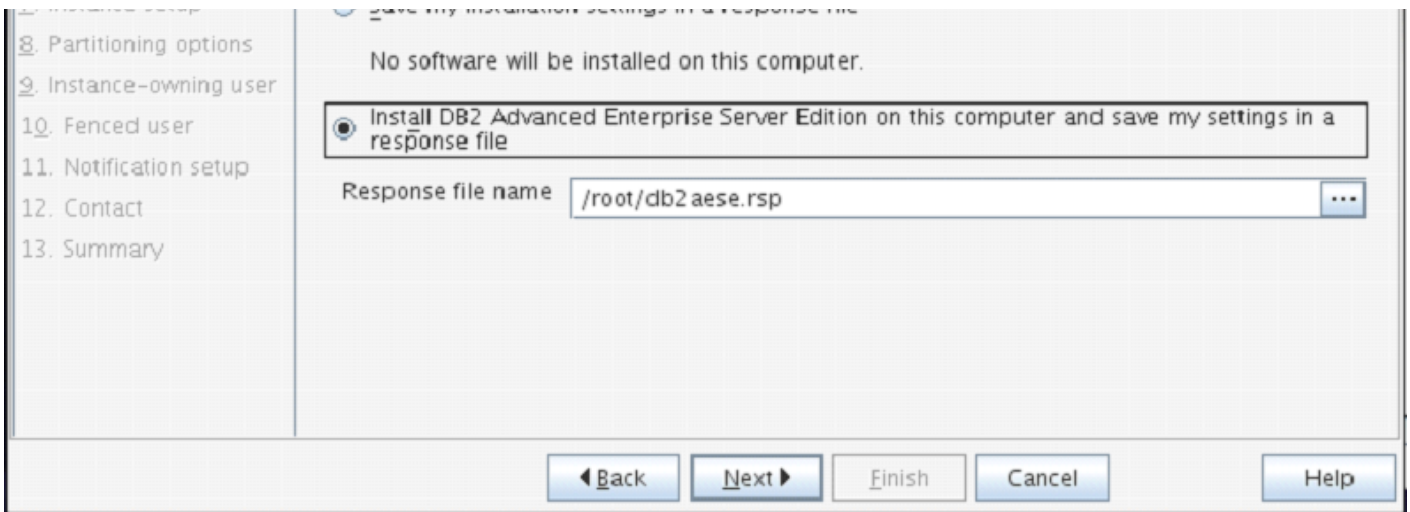A new frame appears with name "DB2 setup wizard". Click "Next". [Figure-3]

2. IBM International Program License Agreement

If Licensee is obtaining the Program for purposes of productive use (other than evaluation, testing, trial "try or buy," or demonstration): By clicking on the "Accept" button below, Licensee accepts the IBM International Program License Agreement, without modification.

If Licensee is obtaining the Program for the purpose of evaluation, testing, trial "try or buy," or demonstration (collectively, an "Evaluation"): By clicking on the "Accept" button below, Licensee accepts both (i) the IBM International License Agreement for Evaluation of Programs (the "Evaluation License"), without modification; and (ii) the IBM International Program License Agreement (the "IPLA"), without modification.

◉ I accept the terms in the license agreement.

○ I do not accept the terms in the license agreement.

◀ Back   Next ▶   Finish   Cancel   Help

The next screen appears with DB2 license agreement. Select "I accept the terms…" Click "Next". [Figure-4]

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6. DAS user
7. Instance setup
8. Partitioning options
9. Instance-owning user
10. Fenced user
11. Notification setup
12. Contact
13. Summary

Select the installation type

◉ Typical: 970 – 1170 MB

○ Compact: 900 – 1090 MB

○ Custom: 900 – 1090 MB

Information about the installation type

Typical

The typical setup includes basic database server function, database administration tools, and most product features and functionality.

To add features for application development and other optional functionality later in the setup process, click Custom.

To view all available features and those selected for a typical installation, press the View Features button.

View Features…

◀ Back   Next ▶   Finish   Cancel   Help

Next screen comes up with offer of Installation type, which is set to "Typical" by default.
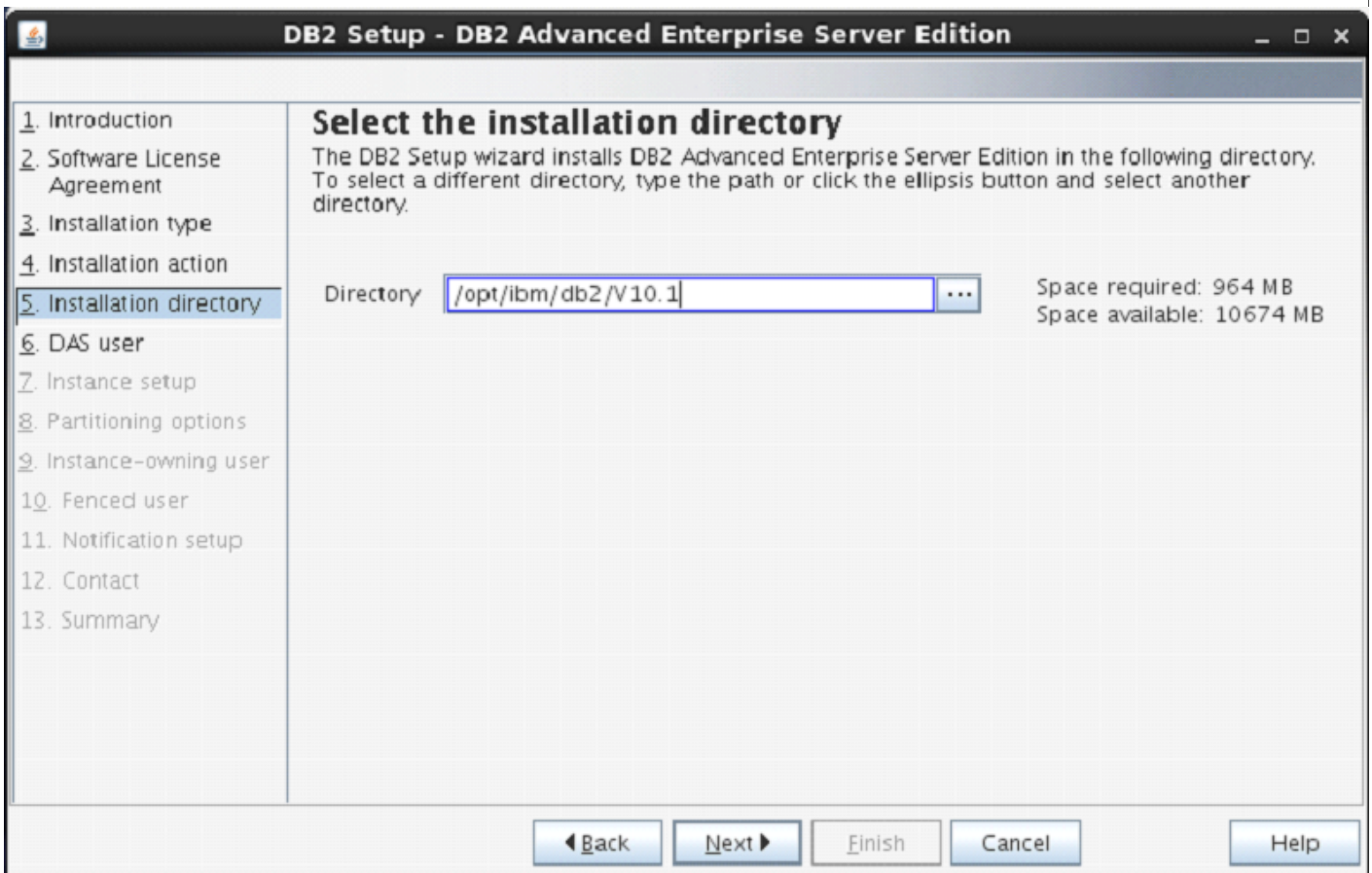
Keep the same selection. Click "Next". [Figure-5]
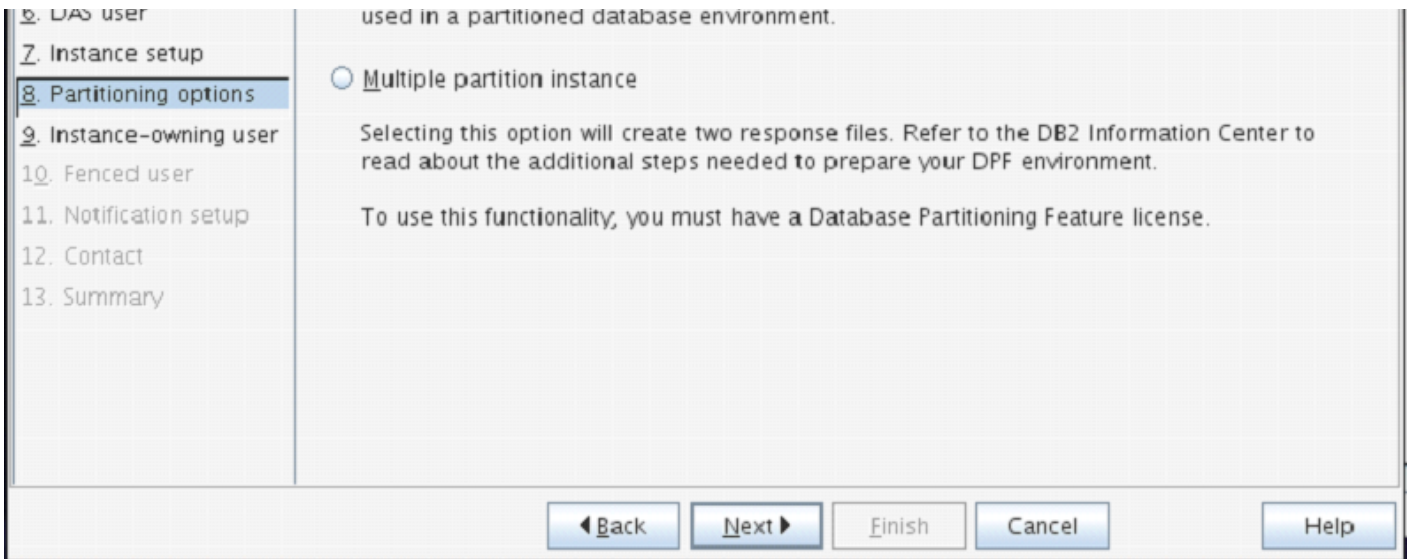
DB2 Setup - DB2 Advanced Enterprise Server Edition

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7. Instance setup

Select installation, response file creation, or both

The DB2 Setup wizard can install DB2 Advanced Enterprise Server Edition on this computer, create a response file that you can use to install this product on a computer later, or both.

If you are setting up an Enterprise Server Edition partitioned database environment, you can also create a response file to install DB2 on the other computers that will act as database partition servers.

○ Install DB2 Advanced Enterprise Server Edition on this computer

○ Save my installation settings in a response file

8. Partitioning options
9. Instance-owning user
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No software will be installed on this computer.

⦿ Install DB2 Advanced Enterprise Server Edition on this computer and save my settings in a response file

Response file name   /root/db2aese.rsp   ...

◀ Back   Next ▶   Finish   Cancel   Help

The next screen appears with installation action.

Select "Install DB2 Advanced Enterprise Server Edition…"

Click "Next". [Figure-6]

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Select the installation directory
The DB2 Setup wizard installs DB2 Advanced Enterprise Server Edition in the following directory. To select a different directory, type the path or click the ellipsis button and select another directory.

Directory   /opt/ibm/db2/V10.1   ...

Space required: 964 MB
Space available: 10674 MB

◀ Back   Next ▶   Finish   Cancel   Help

On the next screen, the setup program asks for selection of installation directory.

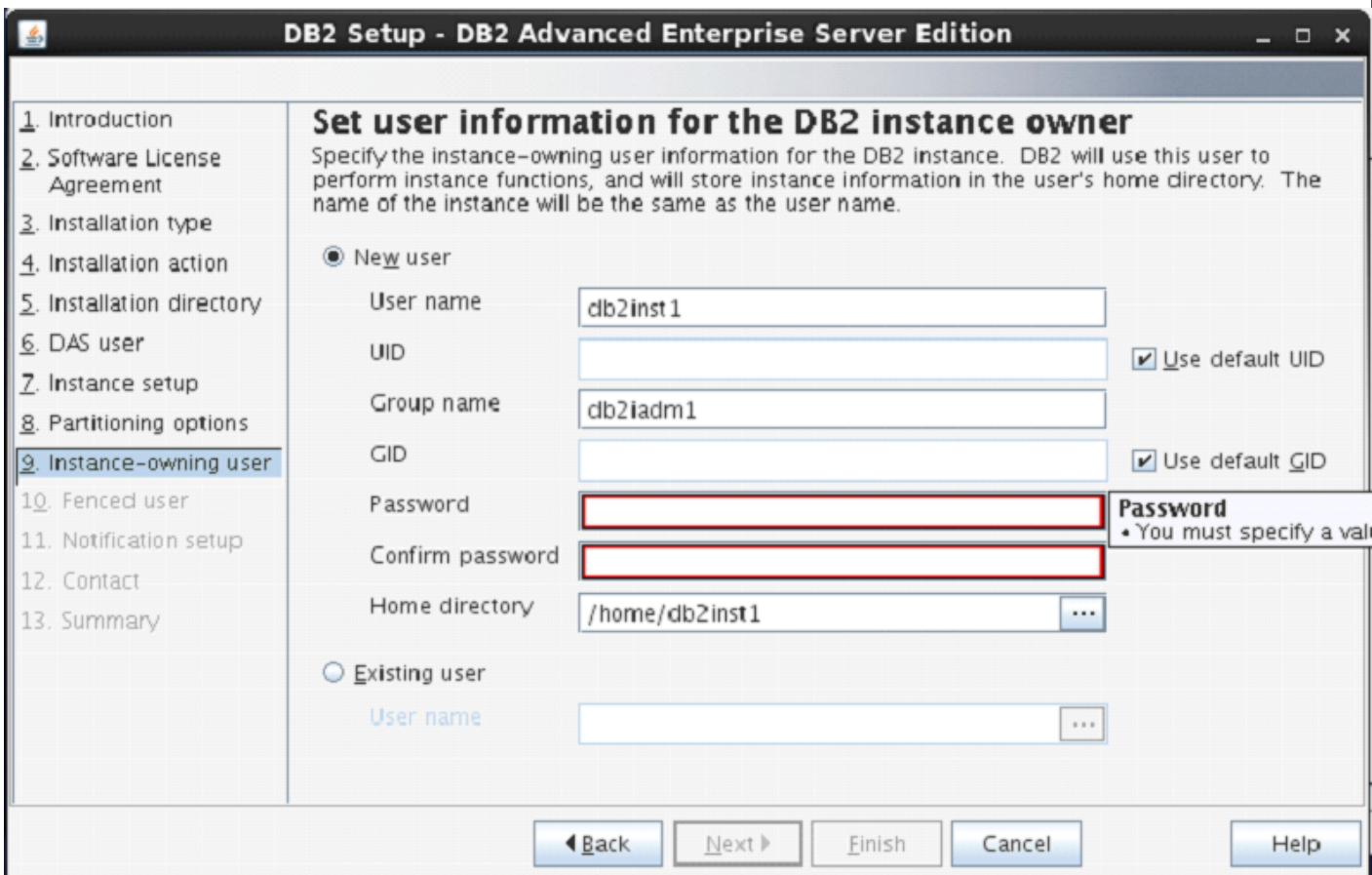Keep the default and click "Next".

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Set user information for the DB2 Administration Server
The DB2 Administration Server (DAS) runs on your computer to provide support required by the DB2 tools. A user with a minimal set of privileges is required to run the DAS. Specify the required user information for the DAS.

⦿ New user

User name   dasusr1

The next screen comes up with the user authentication. Enter your password for "dasusr1" user.

Yourpasswordcanbeidenticaltousernamesothatitisconvenienttoremember.

On the following screen, the setup asks you for creation of DB2 Server Instance.

Here, it is creating a DB2 instance with name "db2inst1".

used in a partitioned database environment.

○ Multiple partition instance

Selecting this option will create two response files. Refer to the DB2 Information Center to read about the additional steps needed to prepare your DPF environment.

To use this functionality, you must have a Database Partitioning Feature license.

◀ Back   Next ▶   Finish   Cancel   Help

The next screen asks you the number of partitions you require for your default instance.
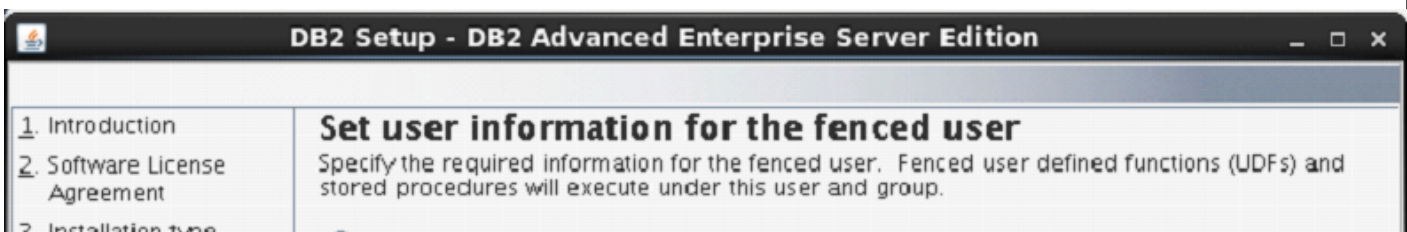
You have a choice of "single or Multiple" partitions.

Select "single partition instance". Click "next".

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Set user information for the DB2 instance owner

Specify the instance-owning user information for the DB2 instance. DB2 will use this user to perform instance functions, and will store instance information in the user's home directory. The name of the instance will be the same as the user name.

◉ New user

User name   db2inst1

UID   ☑ Use default UID

Group name   db2iadm1

GID   ☑ Use default GID

Password   **Password**
                                               • You must specify a val

Confirm password

Home directory   /home/db2inst1   ...

○ Existing user

User name   ...

◀ Back   Next ▶   Finish   Cancel   Help

On the next screen, the setup asks you for authentication for DB2 instance being created.

Here, by default username is created as "db2inst1". You can enter password same as username.

Click "Next".

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Set user information for the fenced user

Specify the required information for the fenced user. Fenced user defined functions (UDFs) and stored procedures will execute under this user and group.

On the next screen, the setup asks to enter authentication information for "db2fenc" user.
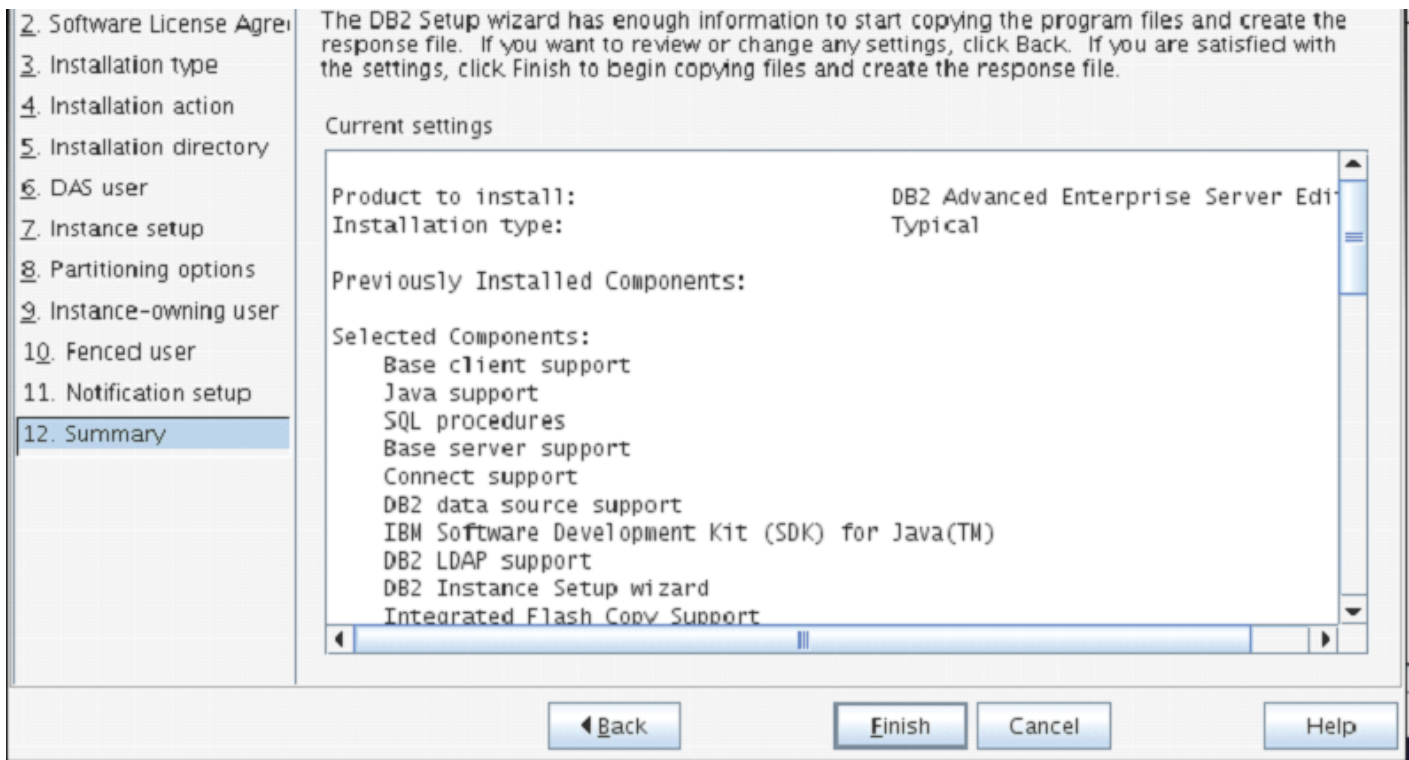
Here, you can enter password same as username.

Click "Next".

On the next screen, you can select "Do not setup your db2 server to send notifications at this time" option.

Click "Next".

The next screen shows you the information about db2 setup.

Click "Finish".

The DB2 Installation procedure is complete at this stage.

Verifying DB2 installation

You need to verify the installation of DB2 server for its usefulness. On completing the DB2 Server installation, logout from current user mode and login to "db2inst1" user. In "db2inst1" user environment, you can open terminal and execute the following commands to verify if your db2 product is installed properly or not.

db2level

This command shows the current version and service level of the installed DB2 product for current instance.

Syntax:

```
db2level
```

Example:

```
db2level
```

Output:

```
DB21085I Instance "db2inst2" uses "64" bits
And DB2 code release "SQL10010" with level
identifier "0201010E". Informational tokens
are "DB2 v10.1.0.0", "s120403",
"LINUXAMD64101", and Fix Pack "0".
Product is installed at "/home/db2inst2/sqllib".
```

db2licm

This command shows all the license related information of our DB2 Product.

Syntax:

```
db2licm <parameter>
```

Example:

```
db2licm -l
```

Output:
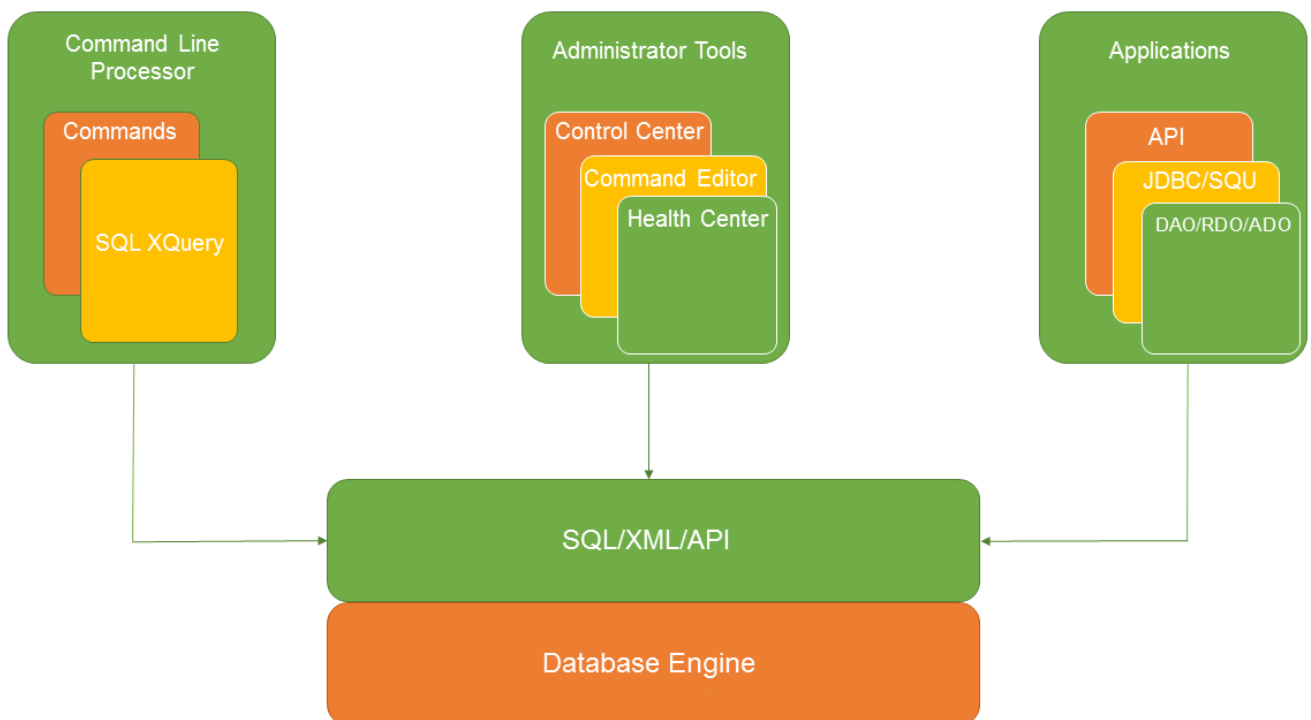
```
Product name:                    "DB2 Advanced Enterprise Server Edition"
License type:                    "Trial"
Expiry date:                     "10/02/2014"
Product identifier:              "db2aese"
Version information:             "10.1"
Product name:                    "DB2 Connect Server"
License type:                    "Trial"
Expiry date:                     "10/02/2014"
Product identifier:              "db2consv"
Version information:             "10.1"
```

Command Line Processor *CLP*

The CLP can be started in one of the three modes:

1. **Command mode**: In this mode, each command and SQL statement must be prefixed by "db2". For example, query "db2 activate database sample".

2. **Interactive input mode**: you can launch this mode by using the "db2" command. Here, you can pass SQL statements without prefix. For example, "activate database sample".

3. **Batch mode**: Here, you need to create a script file, which contains all SQL queries of requirements and save the file with ".db2" extension. You can call this in command line using syntax "db2 –tf <filename.db2>".

Accessing the **DB2**