



Install All Components



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## Help and Support Resources

If you do not find answers to your questions here, please contact your Pentaho technical support representative.

Support-related questions should be submitted through the Pentaho Customer Support Portal at <http://support.pentaho.com>.

For information about how to purchase support or enable an additional named support contact, please contact your sales representative, or send an email to [sales@pentaho.com](mailto:sales@pentaho.com).

For information about instructor-led training, visit <http://www.pentaho.com/training>.

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## Third-Party Open Source Software

For a listing of open source software used by each Pentaho component, navigate to the folder that contains the Pentaho component. Within that folder, locate a folder named licenses. The licenses folder contains HTML files that list the names of open source software, their licenses, and required attributions.

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# Introduction to Pentaho BA Suite Wizard Installation

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These instructions explain how to use the Wizard to install the Pentaho Business Analytics (BA) Suite. The Pentaho BA Suite consists of BA and Data Integration (DI) components. After installation, you can use the software to create reports and visualize them; create and schedule extract, transform, and load data; model data and perform other processing on traditional and big data sources.

## Prerequisites

If you are not sure which installation method to use, read [BA Installation Overview](#) before you begin.

## Expertise

These instructions are written for anyone who wants to install the Pentaho BA Suite, or individual BA and DI components.

## Tools

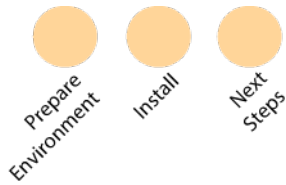
You must supply a server or workstation that meets the hardware and operating system requirements indicated in [support technologies](#).

## Login Credentials

All of the tasks in these instructions require that you have the computer privileges or accesses you need to install software on your server or workstation.

# Wizard Installation Process Overview

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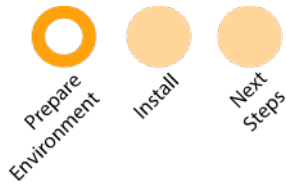


The Wizard Installation process consists of these steps.

- The [Prepare Environment](#) step explains how to prepare your computer for installation of the software.
- The [Install](#) step explains how to use the wizard to install the software.
- [Next Steps](#) explains what to do after you install the software.

# Prepare Environment

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This step explains how to prepare your computer for the installation of the software. During this step you perform these tasks.

- [Create User Account](#)
- [Download Installation Package](#)
- [Disable AntiSpyware or Antivirus Programs](#)

If you plan to install the software on a Mac, you also need to perform one additional step.

- [Adjust Amount of Memory Mac Allocates for PostgreSQL](#)

## Create User Account

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### Windows User Account

If you plan to install the Pentaho BA Suite on a computer that runs Windows, you do not need to create a special user account. Just make sure that you have the appropriate privileges needed to install software. Often, this means that you need administrative-level privileges for the account that you use to install the software. Some Windows systems have expanded user access and permissions restrictions that change the way the software is installed and accessed by system users. If this happens, the installation wizard will require that you execute it with elevated permissions (**Run Elevated** status) so that the BA and DI Servers are accessible to all users.

### Linux User Account

If you plan to install the software on a computer that runs Linux, create a user account named **pentaho** on the computer.

1. Open a **Terminal** window on the server on which you plan to install the software. If you plan to install the software on a remote computer, establish an OpenSSH session to the remote server.
2. In the **Terminal** window, log in as the **root** user by entering this command at the prompt.

```
su root
```

3. When prompted, type the password in the **Terminal** window.
4. In the **Terminal** window, create a new user account called **pentaho**, along with the `pentaho` home directory, by typing this line.

```
sudo useradd -s /bin/bash -m pentaho
```

**Note:** `/bin/bash` indicates that the user account should be created using the Bash shell. In many Linux distributions, the default new user shell is `/bin/sh` or some equivalent, such as Dash, that might not use the `~/ .bashrc` configuration file by default. If you don't have or want to use Bash, adjust the instructions throughout this section accordingly.

5. In the **Terminal** window, assign a password for the **pentaho** user by typing this line.

```
sudo passwd pentaho
```

6. Verify that you can log in using the newly-created **pentaho** user account.
  - a) In the **Terminal** window, log in by typing this command.

```
su pentaho -
```

- b) Type the password for the **pentaho** user account if you are prompted.

- c) Use the **Terminal** window to navigate to the pentaho directory to verify that it has been created. By default, it is in the /home directory.
- d) Close the **Terminal** window.

## Download Installation File

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Download the installation file from the Pentaho website. There are installation files for the Windows, Linux, and Mac operating systems. Download the correct installation file for your operating system. Make note of where you downloaded the file because you will need to find it again in a future step.

- **Windows:** pentaho-business-analytics-5.0.0-x64.exe
- **Linux:** pentaho-business-analytics-5.0.0-x64.bin
- **Mac:** pentaho-business-analytics-5.0.0-x64.app.tar.gz

## Disable Anti-Spyware and Anti-Virus Programs

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Disable any anti-spyware and anti-virus software before installing Pentaho Business Analytics. Some types of software firewalls and anti-virus scanners may also block the BA Server or prevent it from operating normally. After the server is installed, rename them.

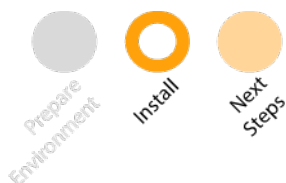
## Adjust Amount of Memory Mac OS Allocates for PostgreSQL

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If you plan to install the software on a Mac OS, you need to increase the amount of memory that it allocates for PostgreSQL. You can skip these instructions if you plan to install the software on Windows or Linux and go to the [Install Pentaho BA Suite](#) step.

PostgreSQL is the name of the database that contains audit, schedule and other data that you create when you use the Pentaho BA Suite. When you run the Installation Wizard, it automatically installs PostgreSQL for you. PostgreSQL starts successfully only if your computer has allocated enough memory. Go to <http://www.postgresql.org/docs/devel/static/kernel-resources.html> and follow the instructions there on how to adjust the memory settings on your computer.

# Install Pentaho BA Suite



After you have [prepared your environment](#), use the Wizard to install the Pentaho BA Suite. You only need to perform two tasks.

- [Install Pentaho BA Suite](#) - Run the installation wizard to install the software.
- [Verify Installation](#) - Review the directory structure to ensure that software was installed correctly.

## Install Pentaho BA Suite with the Wizard

Use the wizard to install Pentaho BA Suite. The wizard installs BA components, DI components, Tomcat web application server, and PostgreSQL, which is the default database that houses the BA and DI Repositories. The BA and DI Repositories hold audit, scheduling, and solution content.

Installation instructions are the same for the Windows, Linux, and Mac platforms.

Before you start, choose whether you want to install using the default or custom methods.

**Table 1: Wizard Installation Decision Table**

Explore Considerations	Choose the Best Option For You	
	Default	Custom
<b>Summary</b>	This option installs all components automatically.	This option allows you to choose the components you want to install.
<b>Installed Components</b>	Installs all components in the Pentaho BA Suite. These include: <ul style="list-style-type: none"> <li>• Servers: BA Server and DI Server.</li> <li>• BA Design Tools and Plugins: Report Designer, Schema Workbench, Metadata Editor, Aggregation Designer, Dashboard, Spoon (with Instaview), Pan, Kitchen, and Carte.</li> <li>• Plugins: All BA Plugins such as Pentaho Mobile, Analyzer, Interactive Reporting and some DI Plugins such as Big Data and Marketplace.</li> </ul>	You can choose to install some or all of the components in the Pentaho BA Suite. These include: <ul style="list-style-type: none"> <li>• Servers: BA Server and DI Server.</li> <li>• BA Design Tools and Plugins: Report Designer, Schema Workbench, Metadata Editor, Aggregation Designer, Dashboard, Spoon (with Instaview), Pan, Kitchen, and Carte.</li> <li>• Plugins: All BA Plugins such as Pentaho Mobile, Analyzer, Interactive Reporting and some DI Plugins such as Big Data and Marketplace.</li> </ul>
<b>Expertise</b>	You need this knowledge to perform this type of installation. <ul style="list-style-type: none"> <li>• Basic computer knowledge.</li> </ul>	You need this knowledge to perform this type of installation. <ul style="list-style-type: none"> <li>• Knowledge of your networking environment, including database port numbers if they differ from the default and IP addresses.</li> </ul>
<b>Time</b>	Approximately 30 minutes.	Approximately 30 minutes or less.
<b>Recommendation</b>	<b>Select if you want to install all of the Pentaho software on your</b>	<b>Select if you want to choose which Pentaho programs to install on</b>



Explore Considerations	Choose the Best Option For You	
	Default	Custom
	workstation or server and if you want to install sample content. We recommend that you choose this option if you want to evaluate Pentaho or to start using it quickly.	your workstation or server or if you want the option to not install sample content. We recommend that you choose this option if you want to set up a production system or if you want to install only some Pentaho products. For example, if you want to install the Pentaho BA and DI Servers on your server, and the Interactive Reporting and Analysis tools on a workstation, choose this option.

To install the software, complete these steps.

1. Make sure that you are logged into the computer on which you want to install the software. You should be log on with an account that allows you to install software. On Windows, this is typically an account that has administrator privileges. On Linux, this is also an account that has administrator privileges, such as the [pentaho account that you created during the previous step](#).
2. Do one of these things to launch the installation file that you [downloaded](#).
  - a) **If you are using Windows:** Open **Windows Explorer**: and navigate to the installation file you just downloaded. Double-click the `pentaho-business-analytics-5.0.0-x64.exe` file to launch it.
  - b) **If you are using Mac:** Double-click the `pentaho-business-analytics-5.0.0-x64.app.tar.gz` installation app.
  - c) **If you are using Linux and your computer can display graphics:** Open a **Terminal** window and navigate to the installation file you just downloaded. Enter this command at the prompt, then press **Enter**.

```
./pentaho-business-analytics-5.0.0-x64.bin
```

- d) **If you are using Linux and your computer cannot display graphics:** open a **Terminal** window and navigate to the installation file you just downloaded. At the prompt enter *one* of these commands, then press **Enter**. Enter this command if you have GTK libraries on your system and want to use the GTK Toolkit:

```
./pentaho-business-analytics-5.0.0-x64.bin - mode text
```

Enter this command if you do not have GTK libraries on your system or if you want to use OpenMotif instead:

```
./pentaho-business-analytics-5.0.0-x64.bin - mode xwindow
```

3. The Pentaho Wizard Splash Screen appears, then the **Welcome** window. Click **Next**.
4. Read the license agreement. Accept the license agreement, then click **Next** to continue.
5. Select the type of installation you want the wizard to perform. If you choose the [default installation](#), click the **Default** in the **Setup Type** window, then do these things. Otherwise, go to the next step.
  - a) In the **Installation Folder** window, accept the default directory or choose a different directory by entering the path in the text box or by clicking **Browse** to find directory where you want to install the software. Click **Next**.  
**Note:** You cannot install into a directory that already exists. If you try, you will get an error message. If you are using Linux, we do not recommend that you install the software in the `/opt/` directory. The complicated permissions requirements and general isolation from the rest of the system can cause unintended issues to arise if the software is installed there.
  - b) When prompted for the PostgreSQL password, enter the password you want to assign to the PostgreSQL database's admin user. Do not use these characters in the password because the Wizard cannot process them: ' " & < > \ ` . Click **Next** to continue.
  - c) The **Ready to Install** window appears. Click the **Next** button to install the software.
6. If you choose the [custom installation](#), click the **Custom** installation in the **Setup Type** window, then do these things. Otherwise, go to the next step.
  - a) Select the Pentaho applications that you want to install from the **Pentaho Applications** window. Click **Next**.

- b) If you indicated that you wanted to install the **BA Server**, the **Sample Content** window appears. Indicate whether you want the wizard to install the sample content, then click **Next**.

**Note:** We **strongly recommend** that you install the sample content. Tutorials and other documentation examples use sample data. Also, if you contact technical support or professional services, sample data is sometimes used to help troubleshoot issues. If you later decide that you do not want to use the sample data, you can remove it after you have installed the software.

- c) In the **Installation Folder** window, accept the default directory or choose a different directory by entering the path in the text box or by clicking **Browse** to find the directory where you want to install the the software. Click **Next**.

**Note:** You cannot install into a directory that already exists. If you try, you will get an error message. If you are using Linux, we do not recommend that you install the software in the `/opt/` directory. The complicated permissions requirements and general isolation from the rest of the system can cause unintended issues to arise if the software is installed there.

- d) If you indicated that you wanted to install the **BA Server** or the **DI Server** the **PostgreSQL postgres user password** window appears. Enter the password you want to assign to the PostgreSQL database's admin user. Do not use these characters in the password because the Wizard cannot process them: ' " & < > \ ` . Enter the user password and click **Next**.

- e) The **Ready to Install** window appears. Click the **Next** button to install the software.

7. The **Installation in Progress** window appears. The software takes about 20 to 30 minutes to completely install.

**Note:** An error occurs if Pentaho BA and DI Server port numbers (**8080, 9092, 9080, 8443, 9443, and 5432**) are not available on your system and if the additional ports that the wizard has tried are not available. If the wizard cannot find an available port, you are prompted to enter port numbers you want to use.

8. The **Installation Complete** window appears. Click the **View Installation Summary** and **Launch the Pentaho User Console** options to launch the **Pentaho User Console** and to view the installation summary. Click **Finish** to end the process.

9. To verify that installation process completed properly, view the **Pentaho Summary Window** to make sure that all of the tools that you wanted to install appear in the list. By default, the **Report Designer, Metadata Editor, Schema Workbench, Aggregate Table Designer, Dashboard Designer, Data Integration (ETL), Analyzer, Interactive Reporting, and Mobile** tools are installed. Sample content is also installed by default.

10. In the **Pentaho Summary Window**, note the administrative username and password. Click **OK** button to close the **Pentaho Summary** window.

11. **Getting Started with Pentaho** appears, as well as the **Pentaho User Console Login** window.

**Note:** Once the installation wizard is complete, the BA Server and DI Server are running with the default parameters. Terminal windows might remain open after installation. If you close them, the BA and DI Servers stop. By default, the BA and DI Server are installed as system services, meaning that they start when you start your computer, and they stop when you shut down your computer. The User Console, Spoon, and other tools must be manually run. In the next step of these instructions there are links to documentation that explains how to start and stop servers manually.

## Verify Installation

To verify that the installation occurred properly, review the software directory structure.

1. Open a file explorer window such as **Windows Explorer** or a command line tool such as the **Command Prompt** or **Terminal** windows.
2. Navigate to the directory where you installed the software, then compare this directory structure with yours. If you installed the entire suite, the structure should look like this.

```
pentaho
../server
../.../biserver-ee
../.../.../data
../.../.../licenses
../.../.../pentaho-solutions
../.../.../tomcat
../.../data-integration-server
../.../.../data
../.../.../licenses
../.../.../pentaho-solutions
../.../.../tomcat
../design-tools
```

```

../../aggregation-designer
../../data-integration
../../metadata-editor
../../report-designer
../../schema-workbench
../common
../documentation
../java
../licenses
../postgresql
../scripts

```

3. If you have trouble with the installer, check the [Troubleshooting](#) documentation.
4. Take note of these files and paths before you move to the next section of these instructions.

#### Top-level files

These files are found in the top-level Pentaho directory:

- **ctlscript:** (.sh or .bat) Starts, stops, restarts, and shows the status of Pentaho services.
- **installation-summary.txt:** Contains the information from the summary screen at the end of the installation process.
- **pentaho.log:** The Tomcat log file for the Pentaho Web application.
- **uninstall:** A script that removes Pentaho Business Analytics.

#### Locations of specific programs

- **BA Server:** pentaho/server/biserver-ee/
- **DI Server:** pentaho/server/data-integration-server/
- **Report Designer:** pentaho/design-tools/report-designer/
- **Schema Workbench:** pentaho/design-tools/schema-workbench/
- **Data Integration (Spoon):** pentaho/design-tools/data-integration/
- **Metadata Editor:** pentaho/design-tools/metadata-editor/
- **Aggregation Designer:** pentaho/design-tools/aggregation-designer/
- **Dashboard Designer:** pentaho/server/biserver-ee/pentaho-solutions/system/dashboards/
- **Analyzer:** pentaho/server/biserver-ee/pentaho-solutions/system/analyzer/
- **Interactive Reporting:** pentaho/server/biserver-ee/pentaho-solutions/system/pentaho-interactive-reporting/
- **License Installer:** pentaho/license-installer/
- **Pentaho Mobile:** pentaho/server/biserver-ee/pentaho-solutions/system/Pentaho-mobile-plugin

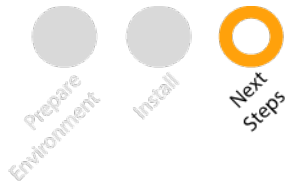
Default Port Numbers (your port numbers might differ if these ports are already used for other programs):

- **5432:** PostgreSQL Server
- **8080:** BA Server Tomcat Web Server Startup Port
- **8012:** BA Server Shutdown Port
- **9080:** DI Server Port
- **9001:** HSQL Server Port
- **9092:** Embedded H2 Database
- **50000 or 50006:** Monet Database Port

**Note:** The license installer can also be found in the report-designer, data-integration, and metadata-editor directories. All of these license installers perform the same functions, but are available in separate places to account for instances where only specific parts of Pentaho Business Analytics are installed to a particular machine. It does not matter which one you use. You can also install licenses through the Pentaho User Console. More information about license installation can be found in the [next step](#).

## Next Steps

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Congratulations! You have finished installing the Pentaho BA Suite. Now, you are ready to do these things.

- Read [Set Up BA Server and Tools](#) to learn how to start the server and design tools, set up licenses, configure security, and more.
- Read [Set up DI Server and Tools](#) to learn how to start the server and design tools, and to set up licenses.

**Note:** If you have installed the DI Server, BA Server or both, and you want to migrate content from the previous version of the servers to this one, [make sure that your license keys have been installed](#). Then, review the [BA Upgrade instructions](#), the [DI Upgrade instructions](#), or both.