Pentaho Business Analytics

The Pentaho Business Analytics (BA) platform enables you to securely access, integrate, manipulate, visualize, and analyze your big data assets. Whether data is stored in a flat file, relational database, Hadoop, NoSQL database, analytic database, social media streams, operational stores, or in the cloud, Pentaho BA helps you discover, analyze, and visualize data to find the answers you need -- even if you have no coding experience. If you can program, you can customize reports, queries, transformations, or extend functionality using our extensive API.

Pentaho Business Analytics (BA) is divided into three components:

- **Pentaho User Console** (PUC)
- **Design Tools**
- **Big Data**

**Pentaho User Console (PUC)**

The Pentaho User Console (PUC) is a web-based design environment where you can analyze data, create interactive reports, dashboard reports, and build integrated dashboards to share business intelligence solutions with others in your organization and on the internet. In addition to its design features, PUC offers a wide variety of system administration features for configuring your Pentaho Server.

- Watch a quick overview of PUC.
- Take a tour of the PUC environment and administration functions.

**Using PUC Perspectives**

The PUC interface uses perspectives to extend your ability to work on different tasks at any given time. By default PUC has the Home, Browse, Opened, Schedules and Administration perspectives. You can also extend certain perspectives with plugins from the Pentaho Marketplace.

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<tr>
<th>Perspective</th>
<th>Description</th>
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<tbody>
<tr>
<td>Home</td>
<td>The <strong>Home perspective</strong> serves as the starting place for the <strong>Pentaho User Console</strong> and all of the tasks that you do with it.</td>
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<tr>
<td>Browse Files</td>
<td>The <strong>Browse Files</strong> perspective helps you keep your files and folders organized and makes them easier for you to find and work with.</td>
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<tr>
<td>Opened</td>
<td>The <strong>Opened perspective</strong> uses plugins to provide access to different analytic capabilities. Depending on your subscription, you may have access to any of the following plugins: Analyzer, Interactive Reporting, Dashboard Designer and CTools.</td>
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| Analyzer        | Analyzer helps you visualize data to make informed business decisions. |
decisions. You can use Analyzer to filter data, add query parameters, configure drill-down links, apply conditional formatting, and to generate hyperlinks. You can also create geographic, scatter chart, heat grid, and multi-chart visualizations.

- [Watch a quick overview](#) of Analyzer.
- [Take a tour](#) of Analyzer.
- [Learn](#) how to develop visualizations of your data using Analyzer Reports.

### Interactive Reporting

Interactive Reporting is a web-based design interface which is used to create both simple and on-demand operational reports without depending on IT or report developers.

- [Watch a quick overview](#) of Pentaho Interactive Reporting.
- [Learn](#) how to create Interactive Reports.

### Dashboard Designer

Dashboard Designer is used to choose layout templates, themes, and content to create visually attractive dashboards that help decision makers gain critical knowledge at a glance. Embed a wide variety of content in the web-based display, including Interactive Reports, Analyzer visualizations, graphics, charts, web pages and collaborative...
### Additional Features of PUC

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<tr>
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| **Data Source Wizard** | The Data Source Wizard helps you define a data source that contains your information and guides you through the creation of your first relational or multidimensional data models for use in creating reports and analysis.  
  - Watch a quick overview of the Data Source Wizard.  
  - Take a tour of the Data Source Wizard. |
| **Data Source Model Editor** | The Data Source Model Editor allows you to change |
Design Tools

Design Tools help you develop and refine how your data values are reported, modeled, transformed, and stored. These tools include: Pentaho Data Integration (PDI), Report Designer, Aggregation Designer, Metadata Editor and Schema Workbench.

Pentaho Data Integration (PDI) is a flexible tool that allows you to collect data from many different sources, like databases, files, and applications, and turn the data into a unified format that is accessible and relevant to end users. PDI provides the Extraction, Transformation, and Loading (ETL) engine that facilitates the process of capturing the right data, cleansing the data, and storing the data using a uniform and consistent format.

- Watch a quick overview of PDI.
- Learn more about using PDI.

Report Designer is used to generate detailed, pixel-perfect reports using virtually any data source.

- Take a quick tour of Report Designer.
- Learn more about creating reports with Report Designer.

Aggregation Designer provides a simple interface that allows you to create aggregate tables from
levels within the dimensions you specify. Use this tool to improve the performance of your Pentaho Analysis (Mondrian) OLAP cubes.

- Learn more about the Pentaho Aggregation Designer.

### Metadata Editor

The Metadata Editor simplifies report building. Use the Metadata Editor to build Pentaho metadata domains and models. A Pentaho Metadata Model maps the physical structure of your database into a logical business model.

- Learn more about Metadata Editor.

### Schema Workbench

Schema Workbench allows you to edit and create multidimensional (Mondrian) models. You can create Mondrian models graphically or define them by hand-coding XML files.

- Learn more about Schema Workbench.

## Big Data

Pentaho provides a complete big data analytics solution that supports the entire big data analytics process. From big data aggregation, preparation, and integration, to interactive visualization, analysis, and prediction, Pentaho allows you to harvest the meaningful patterns buried in big data stores.

- Learn more about Big Data.