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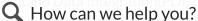
Pentaho Data Integration

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- Kettle
- · Get Started with the PDI client

PDI client (also known as Spoon) is a desktop application that enables you to build transformations and schedule and run jobs.

• Use the Data Integration Perspective

In the Data Integration perspective, workflows are built using steps or entries joined by hops that pass data from one item to the next.

- Use the Schedule Perspective
- Streaming analytics
- Advanced topics
- Troubleshooting

Kettle

If you are new to Pentaho, you may sometimes see or hear Pentaho Data Integration referred to as, "Kettle." Pentaho Data Integration began as an open source project called. "Kettle." The term, K.E.T.T.L.E is a recursive term that stands for Kettle Extraction Transformation Transport Load Environment. When Pentaho acquired Kettle, the name was changed to Pentaho Data Integration. Other PDI components such as Spoon, Pan, and Kitchen, have names that were originally meant to support the "culinary" metaphor of ETL offerings.

Parent Topic

Pentaho Data Integration

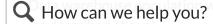
Pentaho Data Integration(PDI) provides the Extract, Transform, and Load (ETL) capabilities that facilitate the process of capturing, cleansing, and storing data using a uniform and consistent format that is accessible and relevant to end users and IoT technologies.

Get Started with the PDI client

PDI client (also known as Spoon) is a desktop application that enables you to build transformations and schedule and run jobs.

Common uses of PDI client include:

- Data migration between different databases and applications
- Loading huge data sets into databases taking full advantage of cloud, clustered and massively parallel processing environments
- Data cleansing with steps ranging from very simple to very complex transformations
- Data integration including the ability to leverage real-time ETL as a data source for Pentaho Reporting





















Parent Topic

Pentaho Data Integration

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Child Topics

• Use Pentaho Repositories in Pentaho Data Integration

Use Pentaho Repositories in Pentaho Data Integration

The Pentaho Data Integration Client offers several different types of file storage. If your team needs a collaborative ETL (Extract, Transform, and Load) environment, we recommend using a Pentaho Repository. In addition to storing and managing your jobs and transformations, the Pentaho Repository provides full revision history for you to track changes, compare revisions, and revert to previous versions when necessary. These features, along with enterprise security and content locking, make the Pentaho Repository an ideal platform for collaboration.

Learn More

Parent Topic

· Get Started with the PDI client

PDI client (also known as Spoon) is a desktop application that enables you to build transformations and schedule and run jobs.

Use the Data Integration Perspective

In the Data Integration perspective, workflows are built using steps or entries joined by hops that pass data from one item to the next.

This workflow is built within two basic file types:

- Transformation Steps: to perform ETL tasks.
- Job Entries: to orchestrate ETL activities such as defining the flow, dependencies, and execution preparation.

Learn more

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Streaming analytics

You can retrieve data from a message stream, then ingest it after processing in near real-time.

Learn more

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Advanced topics

The following topics help to extend your knowledge of PDI beyond basic setup and use:

PDI and Hitachi Content Platform (HCP)

You can use PDI transformation steps to improve your HCP data quality before storing the data in other formats, such as JSON, XML, or Parquet.

PDI and Snowflake

Using PDI job entries for Snowflake, you can load your data into Snowflake and orchestrate warehouse operations.

• Use Command Line Tools

You can use PDI's command line tools to execute PDI content from outside of the PDI client.

Metadata Injection

You can insert data from various sources into a transformation at runtime.

Use Carte Clusters

You can use Carte to build a simple web server that allows you to run transformations and jobs remotely.

Use Adaptive Execution Layer (AEL)





Develop custom plugins that extend PDI functionality or embed the engine into your own Java applications.

Partition Data

Split a data set into a number of sub-sets according to a rule that is applied on a row of data.

• Use a Data Service

Query the output of a step as if the data were stored in a physical table by turning a transformation into a data service.

• Use the Marketplace

Download, install, and share plugins developed by Pentaho and members of the user community.

Use Data Lineage

Track your data from source systems to target applications and take advantage of third-party tools, such as Meta Integration Technology (MITI) and yEd, to track and view specific data.

Work with Big Data

Use transformation steps to connect to a variety of Big Data data sources, including Hadoop, NoSQL, and analytical databases such as MongoDB.

• Use Streamlined Data Refinery (SDR)

You can use SDR to build a simplified and specific ETL refinery composed of a series of PDI jobs that take raw data, augment and blend it through the request form, and then publish it to use in Analyzer.

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Troubleshooting

See our list of common problems and resolutions.

Learn more

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Recommended articles



The Abort step can be used to stop a transformation based on the input data. This step is especially useful for error hand...

Activate CDE

In Pentaho Enterprise Edition 5.4 and higher, CTools is installed for you. Follow the steps below to activate your Commu...

Adapt Mondrian schemas to work with Analyzer

Use the workflow outlined in the steps below to adapt your Mondrian schemas to work properly with Analyzer:

Adaptive Execution Layer

Pentaho uses the Adaptive Execution Layer (AEL) for running transformations in different engines. AEL adapts steps fro...

Article type:

Reference

Tags:

pagetype:documentationarticle

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