



# DOC 4.10.0

## Release Notes

June 26th, 2026

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## DOC 4.10.0 Release Notes

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**Note:**

**DOC 4.10.0 introduces several infrastructure updates and deprecations. They are described in more detail in the [DOC 4.10.0 Migration Guide](#), available on the [DecisionBrain website](#).**

**The following information only focuses on the main changes in this release.**

# Important Notes

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*Please take into account the following important information when using this new version, **DOC 4.10.0**, released on **June 26th, 2026**.*

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## Updates

DOC 4.10.0 introduces the following dependency updates.

### Spring Update

DOC 4.10.0 now uses **Spring Boot 4.0.6**, **Spring Cloud 2025.1.1**, and **Spring Framework 7.0.5**.

### MongoDB Update

DOC 4.10.0 now uses **MongoDB 8.2.5**.

### PostgreSQL Update

DOC 4.10.0 now uses **PostgreSQL 18.2**.

### Keycloak Update

DOC 4.10.0 now uses **Keycloak 26.6.3**.

### RabbitMQ Update

DOC 4.10.0 now uses **RabbitMQ 4.2.6**.

### NGINX Update

DOC 4.10.0 now uses **NGINX 1.29.5**.

### AG Grid Update

DOC and DBOS 4.10.0 now use **AG Grid 35.1.0**.

### echarts Update

DOC and DBOS 4.10.0 now use **echarts 6.1.0**.

## Deprecation Removals

- **DBPF-9380** The deprecated attribute `GeneTaskConfiguration.file` in `gene-job-input.model.ts` has been removed from the web client.
- **DBPF-9379** The deprecated method `buildChart()` in `gene-chart-controller.ts` has been removed from the web client.
- **DBPF-9281** In the Execution Service, the deprecated methods `hasErrorsOrWarnings()` and `issues()` from `ScenarioDataExpression` have been removed.
- **DBPF-9280** In the Execution Service, the deprecated methods `getRawData()` and related utility methods from `ScenarioData` have been removed.

# End-User Features

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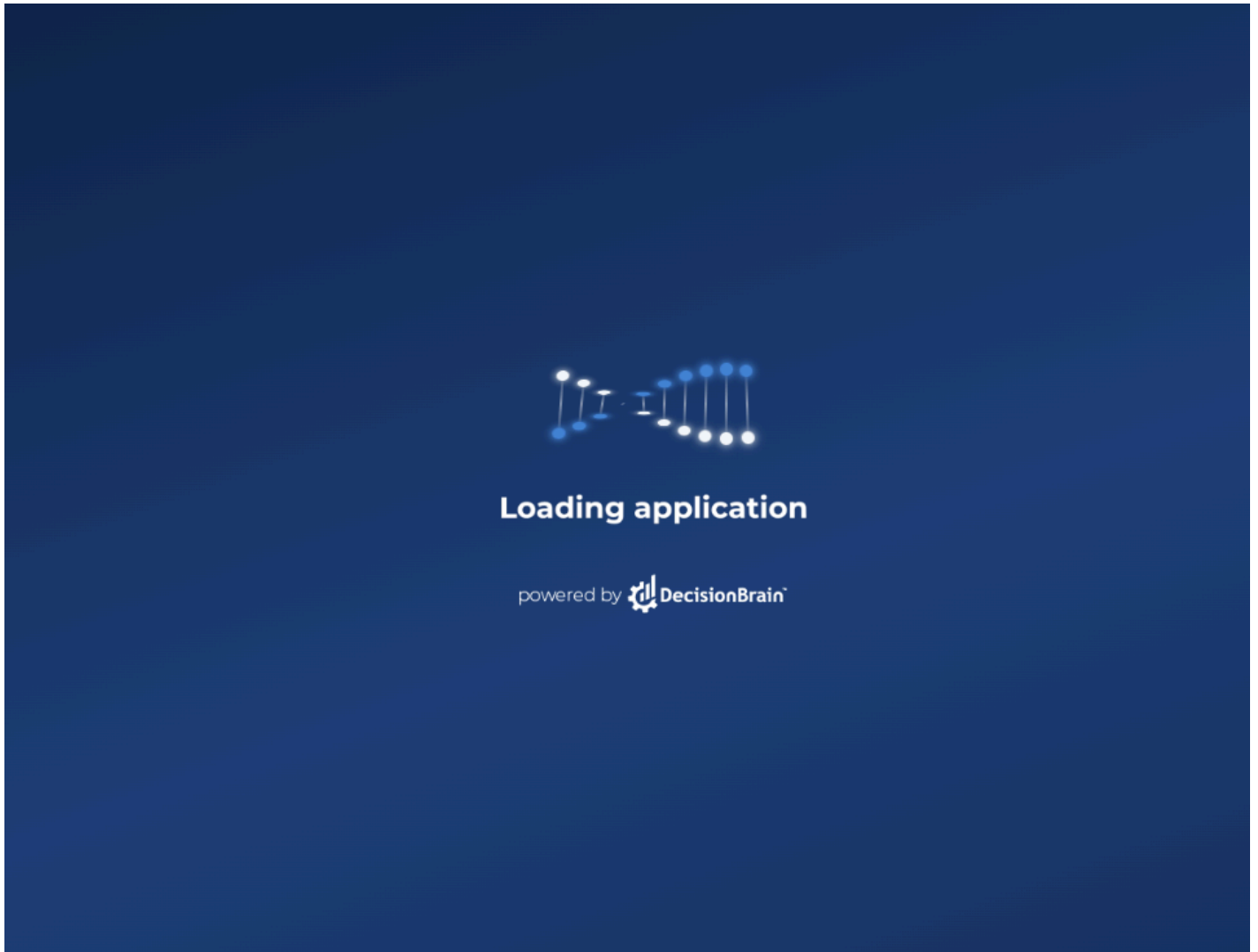
DOC 4.10.0 introduces improvements to the application splash screen, the Filter and Pivot Table widgets, as well as to actions available in the Scenario List, Job List, and Button widgets.

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## Improved Application Loading Screen

**DBPF-9846**

The application loading screen has been modernized.



## Improved Widget Gallery

### DBPF-8172

The widget gallery can now be filtered by tags or through the search bar.

Tags such as Chart, Custom, Editor, etc., are displayed below the search bar and allow quick filtering. One tag can be selected at a time. Custom widgets created in projects are automatically tagged "Custom". Each widget card also displays its tags above its description.

The search bar (auto-focused on open) supports filtering by widget name or tag, with matching text highlighted in the results. Search and tag filters can be combined. A counter shows the number of visible widgets out of the total.

## Improved Filter Widget

### DBPF-9583

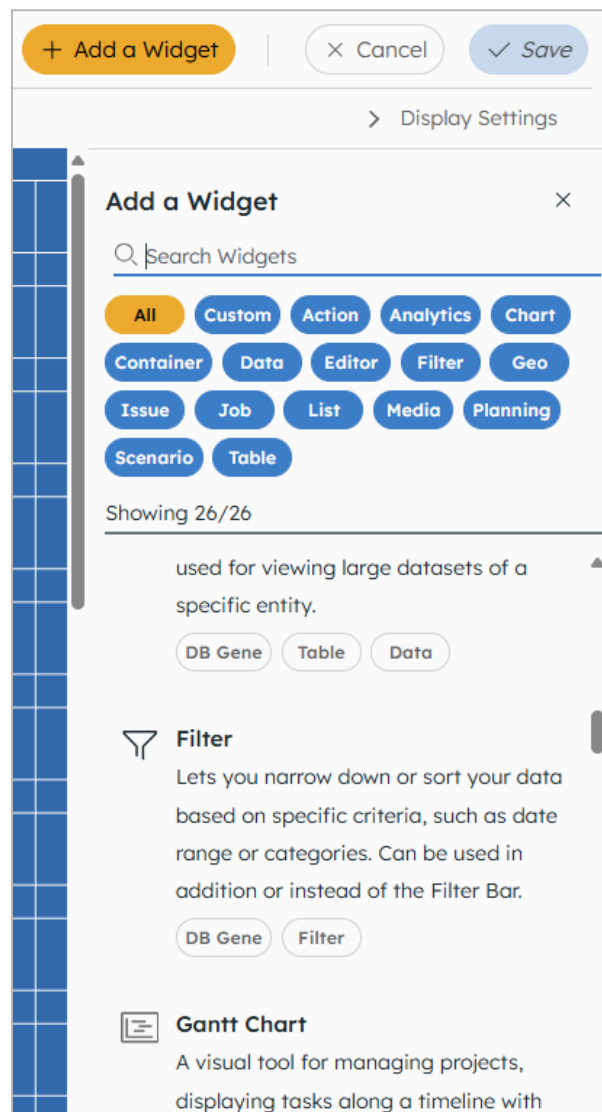
The Filter widget is now more resilient to model changes and will continue to work as best as possible.

A model change can affect a filter in two ways: either it's a change that affects the filter directly, like the target entity being removed – in that case the filter is bypassed; or it affects the filter indirectly, like when an entity in the paths to which the filter is applied is removed – in that case that path is ignored and the filter continues to work. In both cases, a console warning is produced explaining the issue.

- A filter bypassed has a red border, is disabled, and has a tooltip explaining the issue.
- A filter with broken path(s) has an orange border, is **not** disabled, and also has a tooltip.



Issues can be resolved using the filter configurator by selecting valid options or the default parameters.



## Improved Pivot Table Widget

**DBPF-9342 DBPF-9436 DBPF-9439 DBPF-9444 DBPF-9631 DBPF-9657**

The Pivot Table widget has received a substantial set of new capabilities in this release.

### Improved Display for Groups and Values

**DBPF-9439 DBPF-9436**

In the Pivot Table:

- Boolean values **true**, **false**, and **null** (undefined) are now displayed as checkboxes.
- Column groups can now be displayed without cascading.
- Non-aggregated values can now be displayed as a list in the same cell.
- Boolean aggregation can now:
  - *Show False*: One False value makes the aggregation false
  - *Show True*: One True value makes the aggregation True
  - *Show undefined*: Combination of True/False values

Aggregations on...	
Group	Online
<ul style="list-style-type: none"> <li>▼ FRA                             <ul style="list-style-type: none"> <li>Nice <input checked="" type="checkbox"/></li> <li>Paris <input type="checkbox"/></li> </ul> </li> <li>&gt; SNG <input checked="" type="checkbox"/></li> <li>&gt; UK <input type="checkbox"/></li> <li>&gt; USA <input checked="" type="checkbox"/></li> </ul>	
6 rows	

Without custom controller			
Country	Plant	Id	Duration In Hours
▼ France	> Nice		7, 600, 72, 144 (and more)
	> Paris		240, 48, 12, 24 (and more)
▼ Singapore	▼ Singa...	ID...	48
		ID...	24
		ID...	12

### Improved Right-Click Context Menu

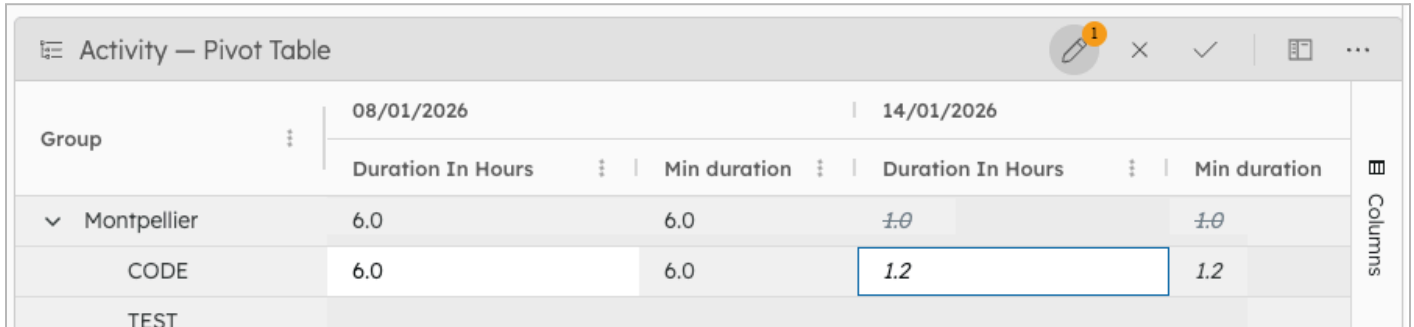
**DBPF-9444**

Using a custom controller, developers can now override and extend the entries in the right-click context menu to tailor the widget to specific application workflows.

## Improved Data Edition

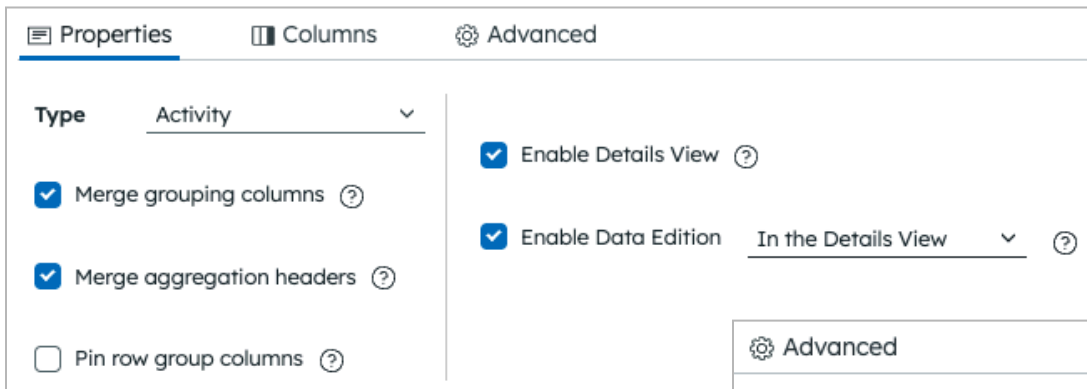
**DBPF-9342 DBPF-9657**

Users can now edit individual cell values directly within the widget. This allows single-cell updates to be performed without leaving the application.



Activity – Pivot Table		08/01/2026	14/01/2026		
Group		Duration In Hours	Min duration	Duration In Hours	Min duration
Montpellier		6.0	6.0	1.0	1.0
CODE		6.0	6.0	1.2	1.2
TEST					

Also, the edition options have been simplified. If the Details view is enabled, the user must choose whether the edition is done in the Details View or the pivot table. If the Details view is not enabled, the edition is enabled directly in the pivot table.

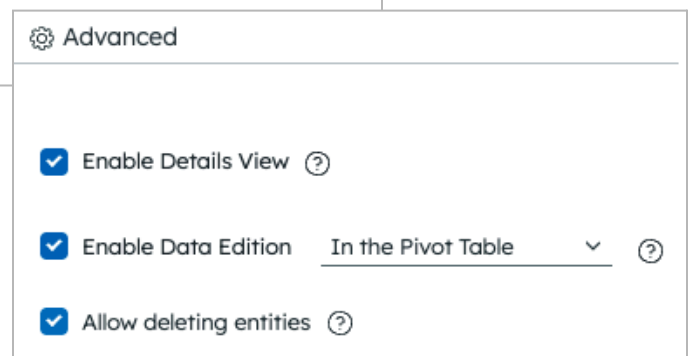


Properties | Columns | Advanced

Type: Activity

- Merge grouping columns
- Merge aggregation headers
- Pin row group columns
- Enable Details View
- Enable Data Edition: In the Details View

If the Edition mode is active and configured for the pivot table (not the Details View), a new option is displayed to allow deleting entities



Advanced

- Enable Details View
- Enable Data Edition: In the Pivot Table
- Allow deleting entities

## New Multi-Value Copy-Pasting

**DBPF-9132**

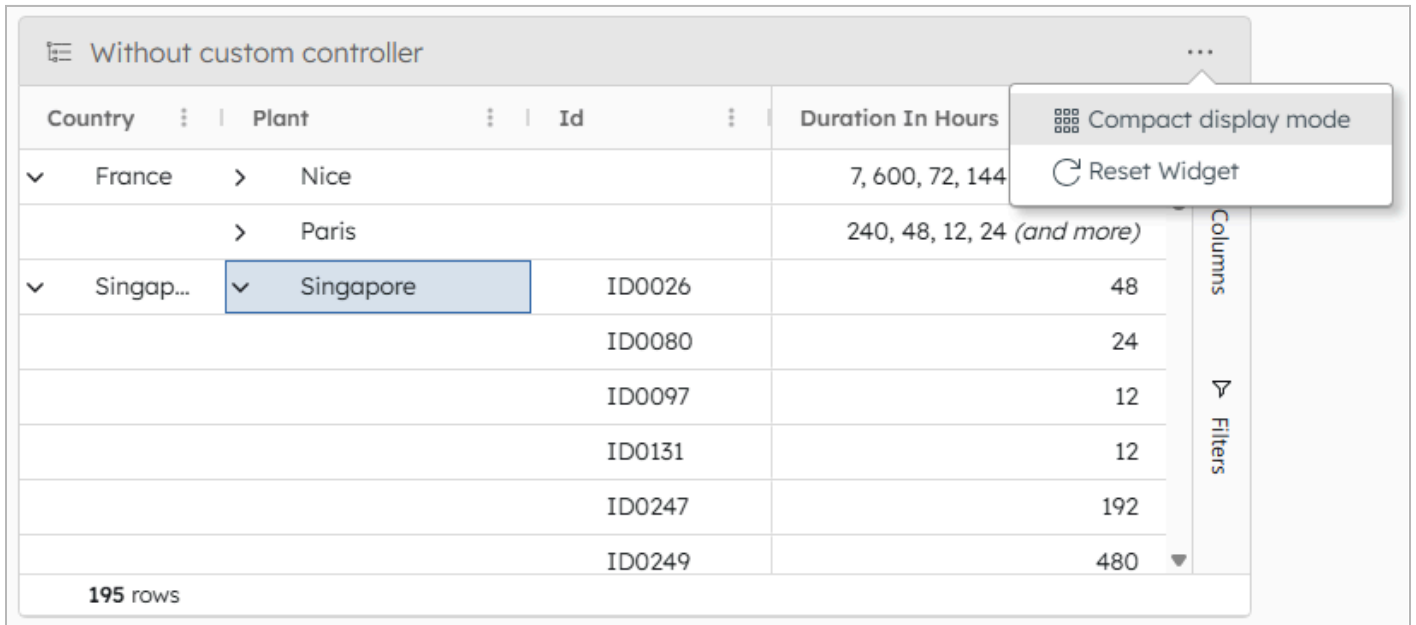
The Pivot Table widget now supports copy-pasting multiple values. Users can copy cell ranges from external sources, such as Excel, and paste them into editable cells in the pivot table. The feature works only on the lowest-level (non-aggregated) cells, and individual columns can be independently configured as editable or read-only.

## New Compact Mode

### DBPF-9631

Compact display mode improves the use of available space by presenting the Pivot Table widget in a condensed layout and is now enabled by default. It can be switched off from the widget toolbar menu "...".

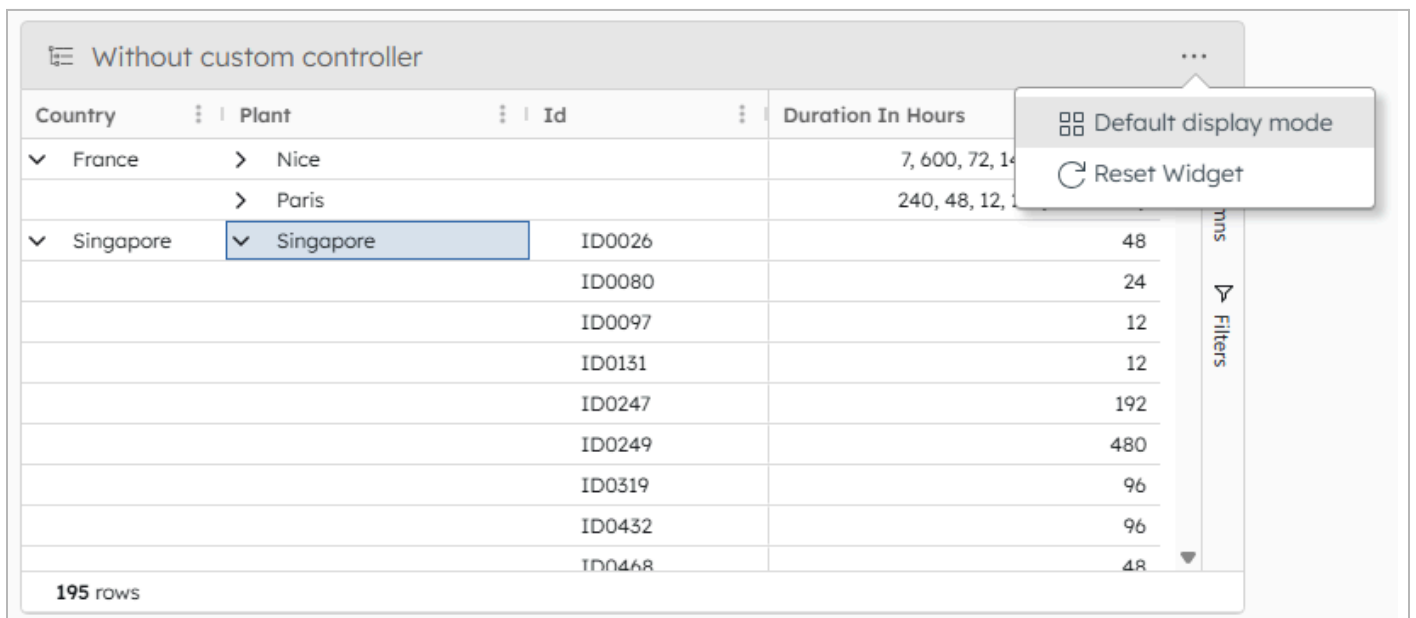
#### Default display mode:



Country	Plant	Id	Duration In Hours
France	Nice		7, 600, 72, 144
	Paris		240, 48, 12, 24 (and more)
Singapore	Singapore	ID0026	48
		ID0080	24
		ID0097	12
		ID0131	12
		ID0247	192
		ID0249	480

195 rows

#### Compact display mode:



Country	Plant	Id	Duration In Hours
France	Nice		7, 600, 72, 144
	Paris		240, 48, 12, 24
Singapore	Singapore	ID0026	48
		ID0080	24
		ID0097	12
		ID0131	12
		ID0247	192
		ID0249	480
		ID0319	96
		ID0432	96
		ID0468	48

195 rows

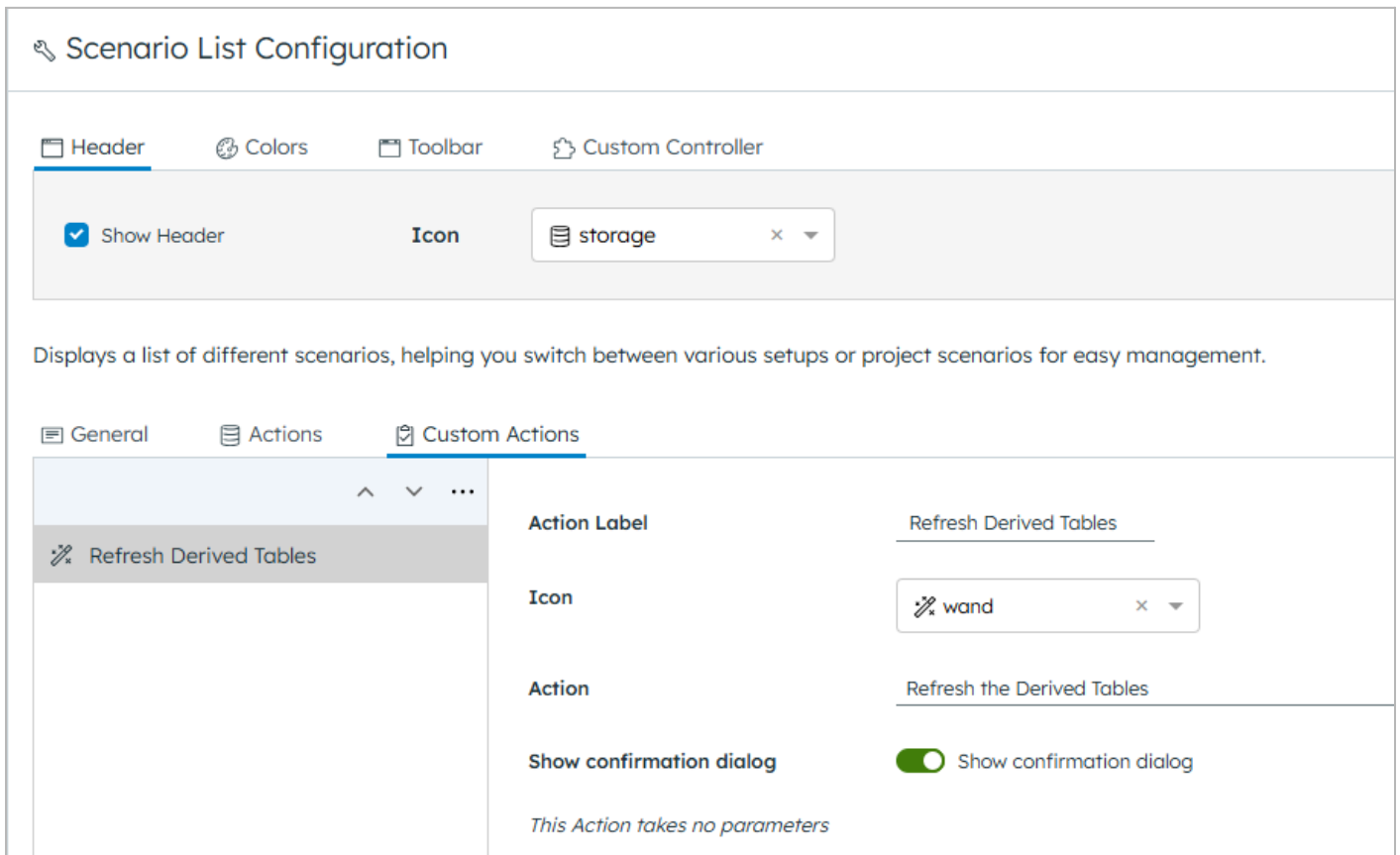
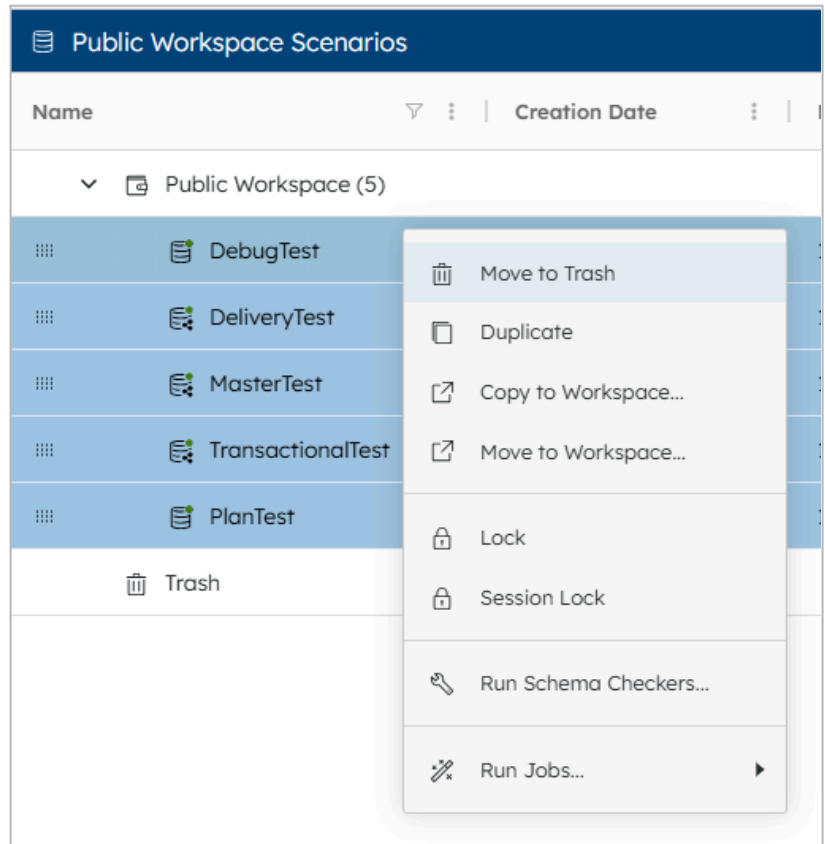
## Improved Actions

**DBPF-9608 DBPF-9584 DBPF-9772**

Version 4.10.0 improves actions in two different ways.

First, users can now select and apply bulk actions on multiple scenarios and folders, in the Scenario List widget, or on multiple jobs, in the Job List widget.

In addition, in the configurator of widgets implementing Custom Actions, such as the Scenario List, Job List, or Button widget, a dedicated option now allows to Show confirmation dialog before the action execution.



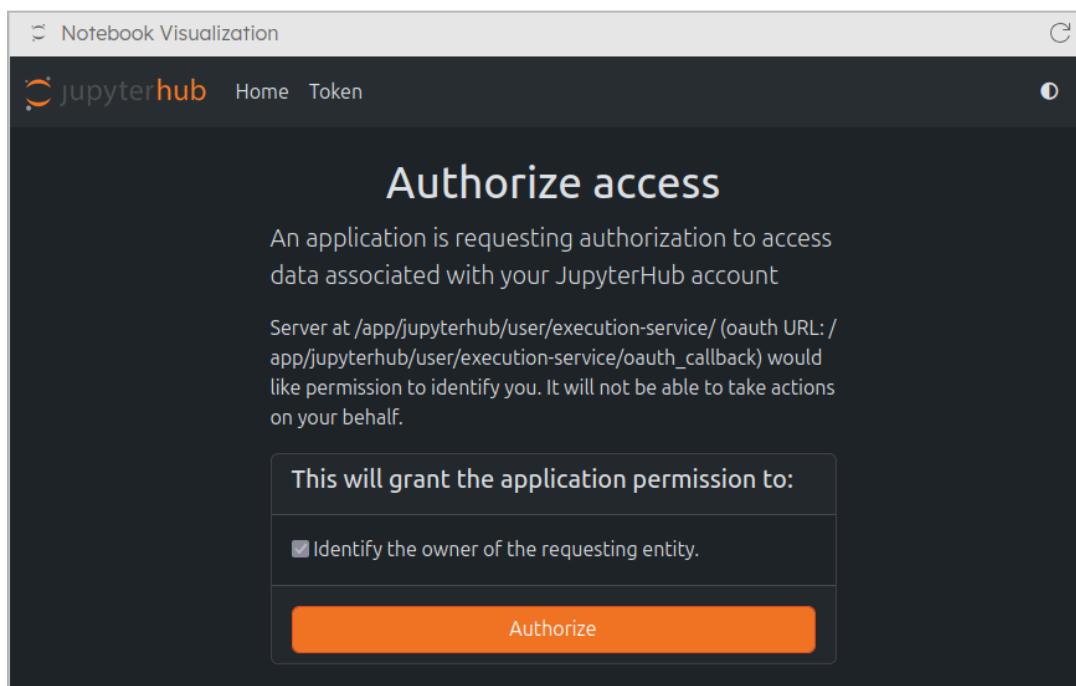
# Technical Features

Version 4.10.0 implements JupyterHub to manage Jupyter servers and provide access to coding agents to assist developers in JupyterLab. It also brings new APIs for bulk actions, improves data integration performance, and enhances the application security and monitoring.

## Improved JupyterHub Integration

**DBPF-7476 DBPF-9557**

DOC now uses JupyterHub to authenticate via Keycloak. When using a Notebook Visualization widget, access must still be granted.



DOC 4.10.0 also adds Jupyter AI support to the JupyterLab image, allowing users to interact with AI models (notably Anthropic's Claude and OpenAI ChatGPT) directly from their notebooks. The configuration is optional and only activates when an API key is provided.

Note that JupyterHub has been added to the Docker Compose files and to the Helm chart, and that JupyterHub must be started to access the JupyterLab server.

## Improved APIs for Multi-Scenario and Multi-Job Actions

### DOC-450

DOC 4.10.0 extends single-scenario actions to support multiple scenarios, enabling efficient batch operations across the platform. It adds new bulk APIs for scenario locking, unlocking, moving, duplicating, sharing, and schema checking, as well as bulk job abortion and deletion.

## Improved Data Integration Library

### DBPF-9580

Memory usage is now improved in the Data Integration library. The data ingestion path has been optimized to use a streaming approach, reducing the memory usage when processing large datasets through the collector framework.

## Improved Security and Monitoring

DOC security has been improved as follows:

- **DBPF-416** Web sockets are now secured by Keycloak JWT authentication.
- **DBPF-8510 DBPF-8511** The Cross-Origin-Resource-Policy security header has been added to both the DOC and DOCOS services to address missing response headers identified by ZAP security scanning.
- **DBPF-9547** RabbitMQ has been upgraded to 4.2.4 to address the latest CVEs.

## Improved Deployment and Infrastructure

Deployment and infrastructure have been improved as follows:

- **DBPF-9504** Kubernetes probes are now ready faster. The readiness probe of the Gateway service was previously configured with an overly conservative 120-second delay. It has been recalibrated to a more appropriate value, reducing startup times for new deployments and rolling updates.
- **DBPF-9486** The idle metric `gene_idle_time_seconds` is now more accurate, reporting a more precise value for detecting idle sessions.