

# How to Guide

## Create and Update a Data Pipeline

Version: Release 1.1



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## **1. Introducing the BDB Data Pipeline**

Discover the real power of Big Data Analytics with BDB Pipeline. Gain seamless insights into a massive amount of structured, semi-structured, and unstructured data. Support your decisions with advanced Machine Learning Algorithms and Visualization techniques, all in one go.

## **2. Getting Started with the BDB Data Pipeline**

- 1. Browse the BDB Enterprise URL link: <u>https://app.bdb.ai</u>
- 2. The BDB Login page opens
- 3. Login to the BDB Platform
  - a. Enter user specific credentials (Email ID with valid Password)
  - b. Select an authentication type using the drop-down
  - c. Click the 'Continue' option



- 4. The BDB Platform homepage opens
- 5. Make sure that the user has permission to access the Data Pipeline plugin
- 6. Click the Apps menu
- 7. Select the Data Pipeline Plugin





8. Data Pipeline landing page opens displaying the Pipeline list in a new window.

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## 3. Creating a New Data Pipeline

- 1. Navigate to the Datapipeline landing page
- 2. Click the 'Main Menu' option provided on the top right side of the page.



3. A context menu opens with the below given options:



- a. Pipeline Workflow Editor
- b. Pipeline JSON Editor
- c. Settings
- 4. Select the Pipelien Workflow Editor from the context menu

Pipeline Workflow Editor
Pipeline JSON Editor
Settings

- 5. Pipeline Editor page opens with a pop-up window to create New Pipeline (dialog box)
- 6. Provide the following information to create a new pipeline:
  - a. Pipeline Name
  - b. Description (Optional)
  - c. Click the 'Save' option

Enter name * Fest_dp_1	
Max 60 characters	9/60
Pipeline Description	//

7. The Pipeline Editor page opens for the newly created pipeline



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#### The icons and options provided on the Pipeline Editor page

Icon/Option	Name	Function
K	Open/ Close the	Opens or Closes the Component Pallet
	Components Pallet	
	Edit the Pipeline	Allows to modify or change the given Pipeline name
	Name	
	Toggle Log Panel	Displays the background activities
8	Update Pipeline	Saves and updates the pipeline
Î	Delete Pipeline	Deletes the pipeline
Ŧ	Toggle Event Panel	Opens the event panel to create and display events
	New Pipeline	Displays a window to assure whether user wants to
		save the pipeline changes
— Main Menu	Main Menu	Opens a context menu with the below given options:
		1. Pipeline JSON Editor
		2. List Pipeline
		3. Settings

8. Drag and drop the required components to the workspace. (E.g., JDBC Reader is dragged to the workspace in the below given image)





- 9. Click on the component
- 10. Provide the following information about the dragged component
  - a. Basic Information

	JDBC Reader									
JDBC Reader		- 1 1 1-					8	ii	<u>+</u>	<u>↑</u>
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#### b. Meta Information

- i. Host IP Address
- ii. Port number
- iii. Username
- iv. Password
- v. Database Name
- vi. Table Name
- vii. Query
- viii. Driver -select from the drop-down
- ix. Limit
- x. Selected Columns
  - 1. Name
  - 2. Alias Name
  - 3. Column Type

JDBC Reader	0			8	<u>+</u> <u>↓</u>	
Basic Information	Meta Information					
Host IP Address	Port					
Username	Password	Database Name	Table Name	-		
Query		Driver 💌	Limit	-		
Selected Columns						
Name	Alias Name	Column Type 🔻	×			
Add New Colum	nn					

- 11. Click the 'Toggle Event Panel' option
- 12. The Event Panel opens on the right side of the page



#### 13. Click the 'Add New Event' icon

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Toggle event panel	Private Shared
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- 14. The 'New Event' window opens
  - a. Provide Event Name
  - b. Click the 'Add Event' option



15. A success message appears, and the new event gets added to the event panel





- 16. Drag the event onto the workspace and Connect it with the dragged component (To connect clicking output node of the component and input node of event)
- 17. Click the 'Save' icon to save the created pipeline
- 18. The 'Activate Pipeline' option appears after the newly created pipeline gets saved



19. The newly created pipeline appears at the top of the Pipeline List

Pipeline List			Search		۹	E Main Menu
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19	Created Date 👻	Status		Action	Details	
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Bi_WF2	Thursday, December 20, 2018	•	Ray View	• Activate	Components	(1)
fS_TEST	Thursday, December 20, 2018	•	📃 View	S Empty	Created Date	Dec 21, 2018
BI	Thursday, December 20, 2018	•	📃 View	• Activate	Updated Date	Dec 21, 2018
	items per page:	10 👻 1-	10 of 225	K < > >I	wetaDataversio	1.0

#### 4. Updating a Data Pipeline

- 1. Navigate to Pipeline List using the Main Menu option
- 2. Select the pipeline you want to update from the list and click 'View' icon



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Name	Created Date 🗸	Status		Action	Details	
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Bi_WF3	Friday, December 21, 2018	•	L View	S Empty	Description	-
test_DP_1	Friday, December 21, 2018	•	L View	S Empty	API version	v1
Bi_WF2	Thursday, December 20, 2018	•	L View	<ul> <li>Activate</li> </ul>	Components	1
fS_TEST	Thursday, December 20, 2018	•	L View	S Empty	Created Date	Dec 21, 2018
BI	Thursday, December 20, 2018	•	L View	<ul> <li>Activate</li> </ul>	Updated Date	Dec 21, 2018
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3. The workflow screen (Pipeline Editor) re-opens for the selected pipeline

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- 4. The user can modify or remove the existing components, drag new components to the selected pipeline E.g., In the below given image displays ES Reader connected with the Kafka event.
- 5. Click the 'Update Pipeline' icon to update the pipeline

