

How to Guide

Flatten JSON (DP)

Version: R-4.5

Contents

1. Component Overview.....	3
2. Step by Step Process to Use Flatten JSON	3

1. Component Overview

BDB Pipeline provides the Flatten JSON component for flattening a nested JSON as well as filtering a data from a nested JSON. It can filter and remove the unnecessary dumping of data on a Kafka topic.

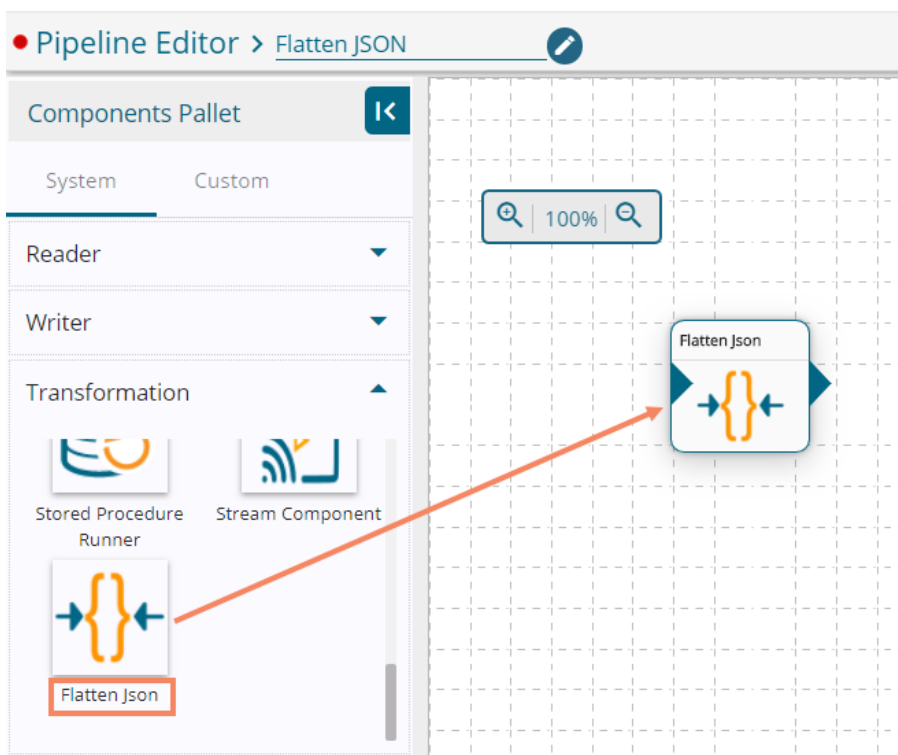
It can run in the following scenarios:

1. Real-Time
2. Batch Process

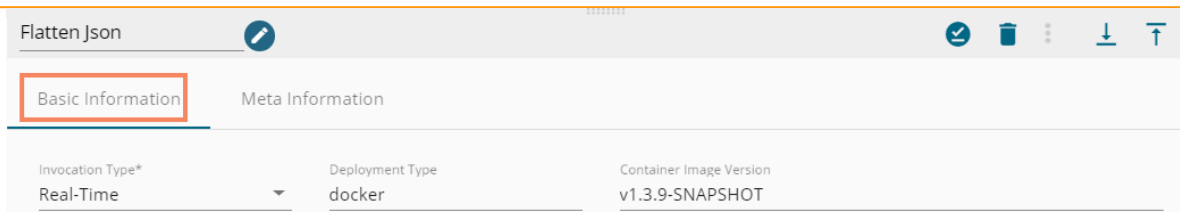
2. Step by Step Process to Use Flatten JSON

The steps to configure the Flatten JSON component is described in this section.

- i) Navigate to the Pipeline Editor.
- ii) Drag the Flatten Json from the Transformation section provided under the Components Pallet and drop to the Pipeline Workspace.



- iii) Click the dragged Flatten JSON component to get the Configuration fields:
- iv) The Basic Information tab opens by default.
 - a. Select the invocation type (Real-Time/Batch)
 - b. Deployment Type: It comes preselected based on the component.
 - c. Container Image Version: It comes preselected based on the component.



- v) Click on the Meta Information tab to open the configuration fields for the selected columns.
- a. Name: The user must provide the full path of data by using dot(.) which he wants to retrieve from a nested json.
 For instance - We have a nested JSON of the following format, and we want to retrieve device type of the Device in dashboard_1 we must give the name as **dashboard_1.Device.devicetype**.

```


"dashboard_1": {
  "Device": [
    {
      "devicetype": "Motor-N1",
      "Vibration": 53,
      "Temperature": 23
    },
    {
      "devicetype": "Motor-N2",
      "Vibration": 48,
      "Temperature": 40
    },
    {
      "devicetype": "Motor-S1",
      "Vibration": 98,
      "Temperature": 33
    },
    {
      "devicetype": "Motor-S2",
      "Vibration": 77,
      "Temperature": 37
    },
    {
      "devicetype": "Gearbox-LS",
      "Vibration": 56,
      "Temperature": 43
    },
    {
      "devicetype": "Gearbox-SS",
      "Vibration": 97,
      "Temperature": 50
    }
  ],
  "Brake": [
    {
      "devicetype": "Brake-N",
      "Thickness": 19,
      "Temperature": 414
    },
    {

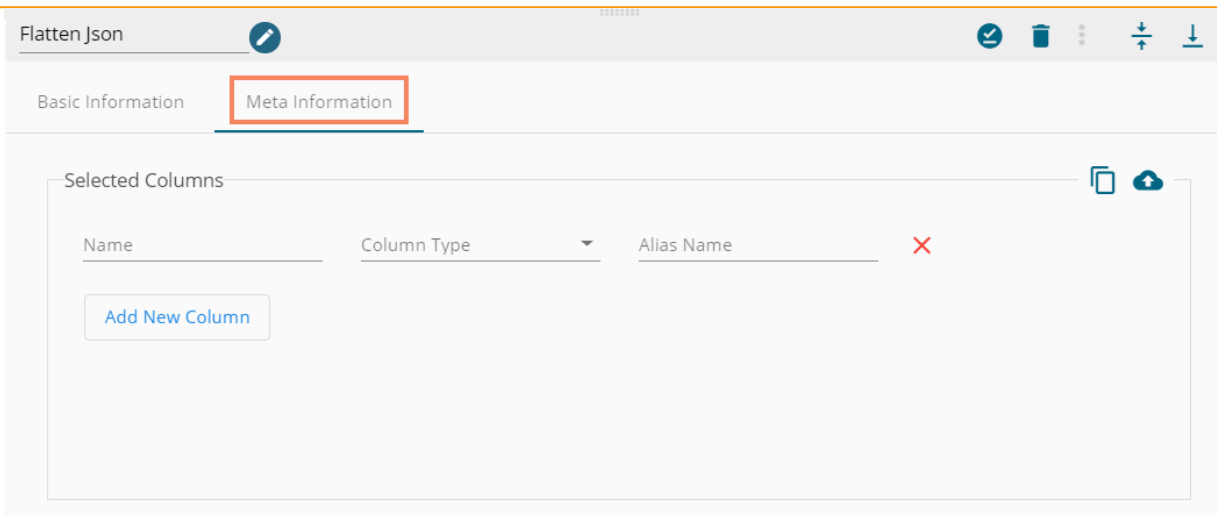
```

```

    "devicetype": "Brake-S",
    "Thickness": 11,
    "Temperature": 397
  }
],
"RPM": 675,
"LOAD(T)": 40,
"MTBF": 562,
"MTTR": 62,
"RUN": 3609,
"RTBM": 317
},
"dashboard_2": {
  "Cast_Spd_St1": 0.013,
  "Cast_Spd_St2": -0.01,
  "Ladle_Gate_Hyd_Press": -181.277,
  "Mold_CW_Back_St1": 4365,
  "Mold_CW_Back_St2": 4338,
  "Mold_CW_East_St1": 459,
  "Mold_CW_East_St2": 469,
  "Mold_CW_Front_St1": 4348,
  "Mold_CW_Front_St2": 4443,
  "Mold_CW_West_St1": 461,
  "Mold_CW_West_St2": 479,
  "Mold_Eff_Back_St1": -1308,
  "Mold_Eff_Back_St2": -1018,
  "Mold_Eff_East_St1": -194,
  "Mold_Eff_East_St2": -177,
  "Mold_Eff_Front_St1": -1137,
  "Mold_Eff_Front_St2": -1375,
  "Mold_Eff_West_St1": -200,
  "Mold_Eff_West_St2": -193,
  "Mold_Lvl_St1": 3,
  "Mold_Lvl_St2": 1,
  "Tundish_Temp_5": 2886,
  "DO_High_Cast_Spd_St1": 0,
  "DO_High_Cast_Spd_St2": 1,
  "Full_Time_Local": 1559641339126
}
}
}

```

- b. Column Type: Select a column type using the drop-down.
(The supported column types are String, Long, Integer, Float, Double, Date, Date Time)
 - c. Alias Name: The user defined name for the selected column.
 - d. Click the **'Add New Column'** option to add more columns.
- vi) Click the **'Save'**  icon to save the configuration.



Note:

- e. The Flatten JSON component cannot generate data in rows.
- f. The Flatten JSON component must have an in-event and out-event in the workflow, as displayed below:

