

What's new in Dashboarder

2022 Update



Dashboarder

Agenda

- What is Dashbuilder
- New Features
- Installation
- Sample Dashboards
- Planned Features

What is Dashbuilder

Tool to build Dashboards and general data visualizations.

New Features

- Dashbuilder's New Home
- Dashbuilder Runtime is a Quarkus Application
- New DataSet Provider: External DataSets (JSON)
- New Authoring Tool
- Client Bundle Size Reduction
- SQL DataSets configuration in Runtime

Dashbuilder's New Home



Kogito

<https://github.com/kiegroup/kogito-tooling/releases>

DB Runtime is a Quarkus App

```
[wsiqueir@localhost dashbuilder]$ java -jar dashbuilder-runtime-app-runner.jar
2021-12-28 19:58:13,062 WARN [com.arj.ats.common] (main) ARJUNA048002: Could not find configuration file, URL was: null
2021-12-28 19:58:13,157 INFO [org.das.bac.RuntimeOptions] (main) Max upload size is 10485760
2021-12-28 19:58:13,157 INFO [org.das.bac.RuntimeModelWatcherServiceManager] (main) Not watching for model changes.
2021-12-28 19:58:13,229 INFO [io.quarkus] (main) dashbuilder-runtime-app 0.0.0 on JVM (powered by Quarkus 2.2.2.Final) started in 0.980s. Listening on: http://0.0.0.0:8080
2021-12-28 19:58:13,231 INFO [io.quarkus] (main) Profile prod activated.
2021-12-28 19:58:13,231 INFO [io.quarkus] (main) Installed features: [agroal, cdi, jdbc-db2, jdbc-derby, jdbc-h2, jdbc-mariadb, jdbc-mssql, jdbc-mysql, jdbc-postgresql, narayana-jta, rest-client, rest-client-jackson, resteasy, resteasy-jackson, resteasy-multipart, servlet, smallrye-context-propagation, smallrye-openapi]
```

started in 0.980s

External DataSets

```
{
  "columns": [
    { "id": "Name", "type": "label" },
    { "id": "2021 Population", "type": "number" },
    { "id": "2020 Population", "type": "number" },
    { "id": "Growth Rate", "type": "number" },
    { "id": "Area (km²)", "type": "number" },
    { "id": "Density (per km²)", "type": "label" }
  ],
  "values": [
    ["China", "1444216107", "1439323776", "0.34", "9706961", "149"],
    ["India", "1393409038", "1380004385", "0.97", "3287590", "424"],
    ["United States", "332915073", "331002651", "0.58", "9372610", "36"],
    ["Indonesia", "276361783", "273523615", "1.04", "1904569", "145"],
    ["Pakistan", "225199937", "220892340", "1.95", "881912", "255"],
    ["Brazil", "213993437", "212559417", "0.67", "8515767", "25"],
    ["Nigeria", "211400708", "206139589", "2.55", "923768", "229"],
    ["Bangladesh", "166303498", "164689383", "0.98", "147570", "1127"],
    ["Russia", "145912025", "145934462", "-0.02", "17098242", "9"],
    ["Mexico", "130262216", "128932753", "1.03", "1964375", "66"]
  ]
}
```

```
[
  ["China", "1444216107", "1439323776", "0.34", "9706961", "149"],
  ["India", "1393409038", "1380004385", "0.97", "3287590", "424"],
  ["United States", "332915073", "331002651", "0.58", "9372610", "36"],
  ["Indonesia", "276361783", "273523615", "1.04", "1904569", "145"],
  ["Pakistan", "225199937", "220892340", "1.95", "881912", "255"],
  ["Brazil", "213993437", "212559417", "0.67", "8515767", "25"],
  ["Nigeria", "211400708", "206139589", "2.55", "923768", "229"],
  ["Bangladesh", "166303498", "164689383", "0.98", "147570", "1127"],
  ["Russia", "145912025", "145934462", "-0.02", "17098242", "9"],
  ["Mexico", "130262216", "128932753", "1.03", "1964375", "66"]
]
```

New Authoring Tool

Welcome to Dashbuilder

Dashbuilder offers tools to create Business Dashboards. Select a tool below to get started

Datasets

Create and edit source of data that can be used to build dashboards.

Design

Build pages with charts and metrics components.

Data Transfer

Transfer content between installations.

Client Bundle Size Reduction

<input type="checkbox"/> F6242A9058BAF8CF5C5AB717185A83CB.cache.js	200	script	org_dashbuilder.DashbuilderRuntime.nocache.js:10	1.4 MB	274 ms
<input type="checkbox"/> fontawesome-webfont.woff2?v=4.6.3	200	font	patternfly.min.css	72.2 kB	4 ms
<input checked="" type="checkbox"/> patternfly.min.css	200	stylesheet	(index)	30.4 kB	17 ms
<input type="checkbox"/> OpenSans-Semibold-webfont.woff	200	font	patternfly.min.css	23.1 kB	5 ms
<input type="checkbox"/> OpenSans-Regular-webfont.woff	200	font	patternfly.min.css	22.8 kB	6 ms
<input checked="" type="checkbox"/> patternfly-additions.min.css	200	stylesheet	org_dashbuilder.DashbuilderRuntime.nocache.js:23	22.7 kB	17 ms
<input type="checkbox"/> OpenSans-Light-webfont.woff	200	font	patternfly.min.css	22.4 kB	5 ms
<input type="checkbox"/> PatternFlyIcons-webfont.ttf	200	font	patternfly-additions.min.css	11.3 kB	4 ms
<input checked="" type="checkbox"/> jquery-ui.min.css	200	stylesheet	org_dashbuilder.DashbuilderRuntime.nocache.js:23	3.7 kB	13 ms
<input type="checkbox"/> org_dashbuilder.DashbuilderRuntime.nocache.js	200	script	(index)	3.6 kB	6 ms
<input checked="" type="checkbox"/> uberfire-patternfly.css	200	stylesheet	org_dashbuilder.DashbuilderRuntime.nocache.js:23	2.3 kB	12 ms
<input checked="" type="checkbox"/> bootstrap-datepicker3-1.6.4.min.cache.css	200	stylesheet	org_dashbuilder.DashbuilderRuntime.nocache.js:23	2.3 kB	12 ms
<input checked="" type="checkbox"/> bootstrap-slider-9.2.0.min.cache.css	200	stylesheet	org_dashbuilder.DashbuilderRuntime.nocache.js:23	1.8 kB	11 ms
<input checked="" type="checkbox"/> bootstrap-datetimepicker-2.4.4.min.cache.css	200	stylesheet	org_dashbuilder.DashbuilderRuntime.nocache.js:23	1.8 kB	11 ms
<input checked="" type="checkbox"/> daterangepicker.css	200	stylesheet	org_dashbuilder.DashbuilderRuntime.nocache.js:23	1.8 kB	13 ms
<input checked="" type="checkbox"/> bootstrap-select.min.css	200	stylesheet	org_dashbuilder.DashbuilderRuntime.nocache.js:23	1.6 kB	12 ms
<input checked="" type="checkbox"/> bootstrap-switch-3.3.2.min.cache.css	200	stylesheet	org_dashbuilder.DashbuilderRuntime.nocache.js:23	1.6 kB	11 ms
<input type="checkbox"/> favicon.ico	200	octet-stream	Other	1.1 kB	3 ms
<input type="checkbox"/> localhost	200	document	Other	1.0 kB	3 ms
<input checked="" type="checkbox"/> positioned-tabs-1.0.0.min.cache.css	200	stylesheet	org_dashbuilder.DashbuilderRuntime.nocache.js:23	647 B	11 ms
<input checked="" type="checkbox"/> index.css	200	stylesheet	(index)	487 B	7 ms
<input type="checkbox"/> prettify.min.css	200	stylesheet	org_dashbuilder.DashbuilderRuntime.nocache.js:23	485 B	12 ms
<input type="checkbox"/> info	200	fetch	org_dashbuilder.DashbuilderRuntime-0.js:11812	171 B	3 ms
<input type="checkbox"/> function	200	xhr	org_dashbuilder.DashbuilderRuntime-0.js:11677	158 B	3 ms
<input type="checkbox"/> subscribe	200	eventsource	Other	104 B	3 ms
--- runtime_logo.png	200	png	org_dashbuilder.DashbuilderRuntime-0.js:2942	(memory cache)	0 ms
<input type="checkbox"/> data:image/png;base...	200	png	org_dashbuilder.DashbuilderRuntime-0.js:1453	(memory cache)	1 ms

27 requests | 1.6 MB transferred | 5.6 MB resources | Finish: 1.14 s | DOMContentLoaded: 93 ms | Load: 452 ms

27 requests | 1.6 MB transferred | 5.6 MB resources | Finish: 1.14 s | DOMContentLoaded: 93 ms | Load: 452 ms

SQL DataSets in Runtime

```
java -Ddashbuilder.runtime.multi=true \  
-Ddashbuilder.datasources=sample \  
-Ddashbuilder.datasource.sample.jdbcUrl=jdbc:mariadb://localhost:3306/sample \  
-Ddashbuilder.datasource.sample.providerClassName=org.mariadb.jdbc.Driver \  
-Ddashbuilder.datasource.sample.maxSize=10 \  
-Ddashbuilder.datasource.sample.principal=repassse \  
-Ddashbuilder.datasource.sample.credential=repassse \  
-jar target/dashbuilder-runtime-app-7.56.0-SNAPSHOT-runner.jar
```

On-Premise installation

Requirement: *Java JDK 11*

Runtime

```
java -jar dashbuilder-runtime-app-runner.jar
```

Authoring Bootable JAR

```
java -jar dashbuilder-authoring-bootable.jar
```

Deployable WAR on Wildfly 23.0.2:

```
dashbuilder-authoring.war
```

Openshift Installation

Dashbuilder Runtime*

quay.io/kogito_tooling_bot/dashbuilder-runtime:0.14.1

Dashbuilder Authoring**

quay.io/kogito_tooling_bot/dashbuilder-authoring:0.14.1

* Use *JAVA_OPTS* environment variable to configure Dashbuilder

** Set *JAVA_OPTS* as *-Dorg.dashbuilder.project.location=/tmp/*

DEMO

Planned Features*

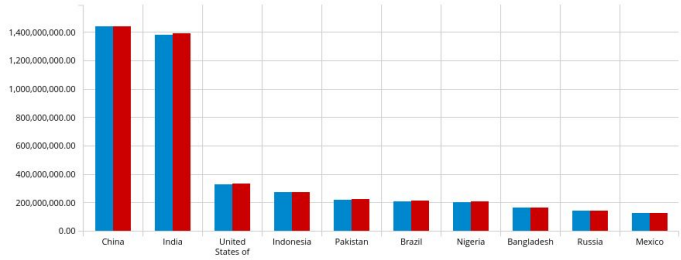
- Client External DataSets Support
- YML Editor
- External DataSet Operation on Source
- Remote External Components
- New Dashbuilder Website
- Pre-made Reusable External DataSets library

* *Subject to change*

YML Editor

```
1- datasets:
2-   - uuid: pop
3-     url: /datasets/population.json
4- layoutTemplates:
5-   - name: Countries Population
6-     rows:
7-       - layoutColumns:
8-         - layoutComponents:
9-           - type: HTML
10-            properties:
11-              HTML_CODE: Countries Population
12-              font-size: xx-large
13-            - settings:
14-              type: BARCHART
15-              subtype: COLUMN
16-              chart:
17-                width: '800'
18-                margin:
19-                  left: '100'
20-              dataSetLookup:
21-                dataSetUuid: pop
22-                rowCount: 10
23-              groupOps:
24-                - columnGroup:
25-                  source: Name
26-                  groupStrategy: DYNAMIC
27-                groupFunctions:
28-                  - source: Name
29-                  - source: 2020 Population
30-                  - source: 2021 Population
31-            - settings:
32-              type: TABLE
33-              chart:
34-                resizable: 'true'
35-              table:
36-                sort:
37-                  enabled: 'true'
38-              dataSetLookup:
39-                dataSetUuid: pop
```

Countries Population



Name	2021 Population	2020 Population	Area (km ²)	Density (per km ²)	Growth Rate	Population Share
China	1,444,216,107.00	1,439,323,776.00	9,706,961.00	149.00	0.34	18.34
India	1,393,409,038.00	1,380,004,385.00	3,287,590.00	424.00	0.97	17.69
United States of...	332,915,073.00	331,002,651.00	9,372,610.00	36.00	0.58	4.23
Indonesia	276,361,783.00	273,523,615.00	1,904,569.00	145.00	1.04	3.51
Pakistan	225,199,937.00	220,892,340.00	881,912.00	255.00	1.95	2.86
Brazil	213,993,437.00	212,559,417.00	8,515,767.00	25.00	0.67	2.72
Nigeria	211,400,708.00	206,139,589.00	923,768.00	229.00	2.55	2.68
Bangladesh	166,303,498.00	164,689,383.00	147,570.00	1,127.00	0.98	2.11
Russia	145,912,025.00	145,934,462.00	17,098,242.00	9.00	-0.02	1.85
Mexico	130,262,216.00	128,932,753.00	1,964,375.00	66.00	1.03	1.65

10 Items

1-10 of 232

Thanks!

Blog blog.kie.org

Code github.com/kiegroup/kogito-tooling