Article
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Apache Zeppelin + IRIS Quick Start

Apache Zeppelin it's a Multi-purpose notebook that allow you:

- *Data Ingestion*
- *Data Discovery*
- *Data Analytics*
- *Data Visualization and Collaboration.*

Apache Zeppelin interpreter concept allows any language/data-processing-backend to be plugged into Zeppelin. Currently Apache Zeppelin supports many interpreters such as Apache Spark, Apache Flink, Python, R, JDBC, Markdown and Shell.

It provides you a safe environment to get insigth of your data. You can take avantage of Zeppelin's higligths using both , ***JDBC and Spark IRIS*** native connectors.

This is a Quick Start Guide just to put you on the track.

1.- Download and save Zeppellin from the official web site --> (Here)

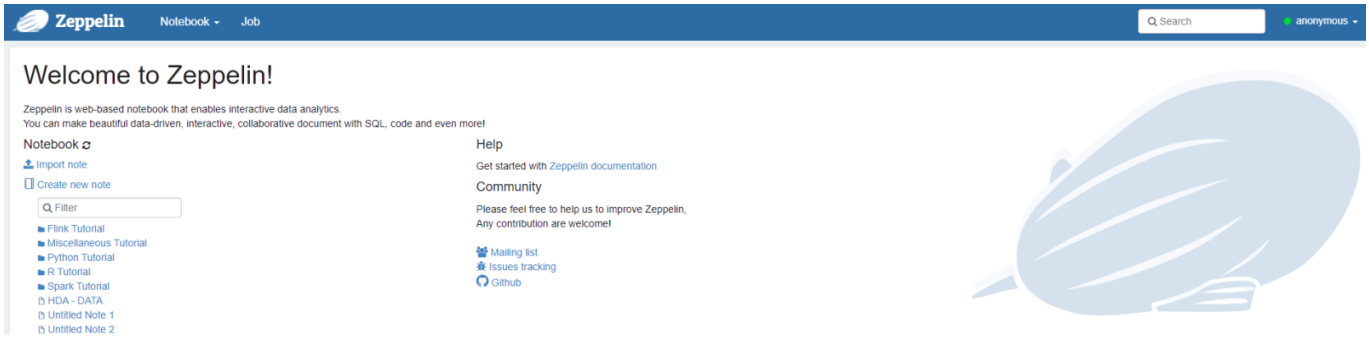
2.- Unpackage the distro in the installation folder (your election)

3.- You will need install a JDK (if you don't have it)

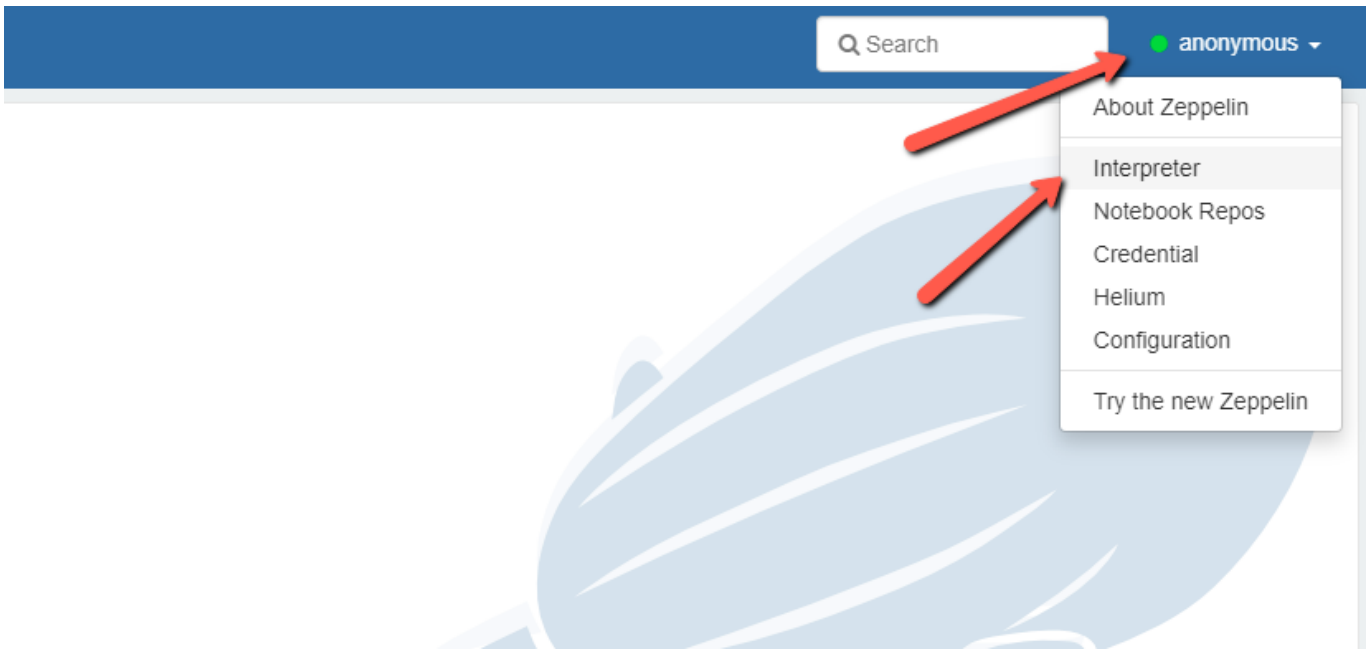
4.- When JDK is Installed you can run Zeppelin **#bash> sudo ./<zeppelinpath>/bin/zeppelin-daemon.sh start** (This is a Linux / Unix based install ... but there is a bash file for the Windows based systems.)

5.- Once it's running you can use it through the browser **http://[serverip]:8080**

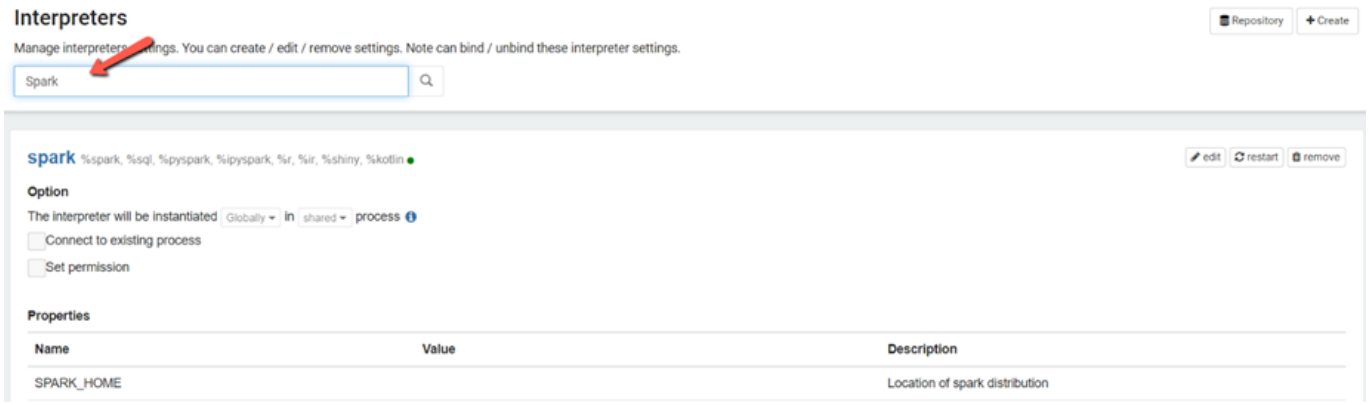
6.- If everything was OK you should see this screen



7.- Now it's necessary to setup the interpreters

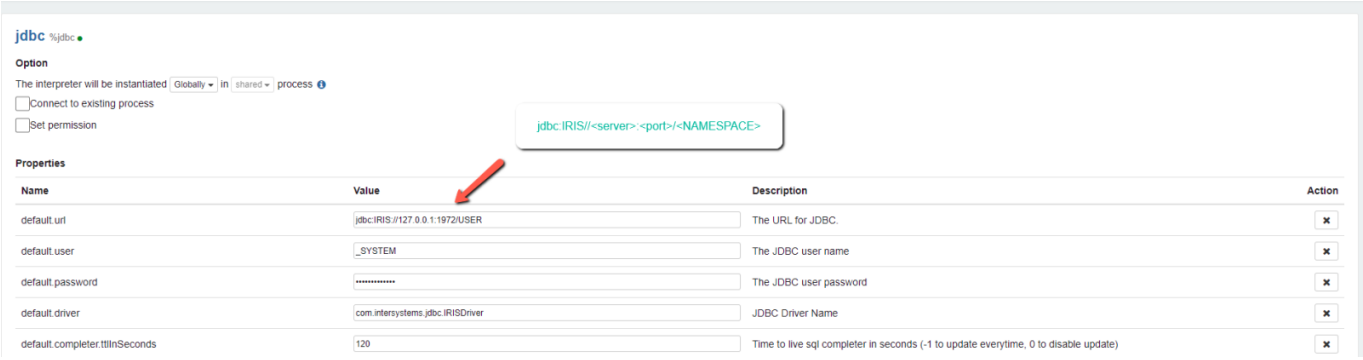


8.- Let's config Spark Connector (for using the full potencial of IRIS + Zeppelin i.e. with **Scala** or **R**)

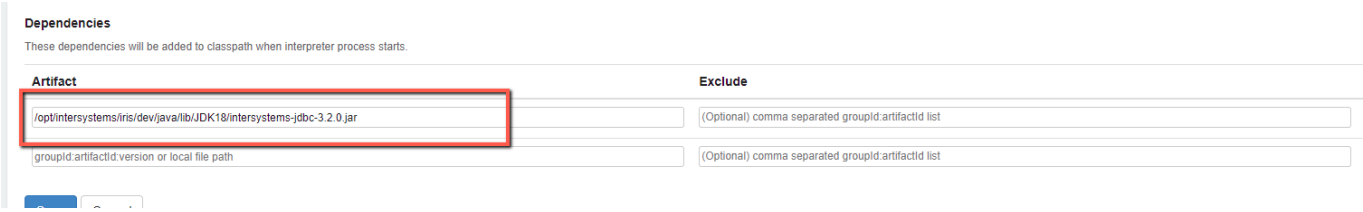


8.1 In the "Artifacts" section include routes to jdbc and IRIS spark connector

9.- Now let's configure the JDBC Interpreter , in defaulurl you must set **jdbc:IRIS://<youririsserver>:<port>/<namespace>** , also your default user and default password, finally default.driver is ***com.intersystems.jdbc.IRISDriver***



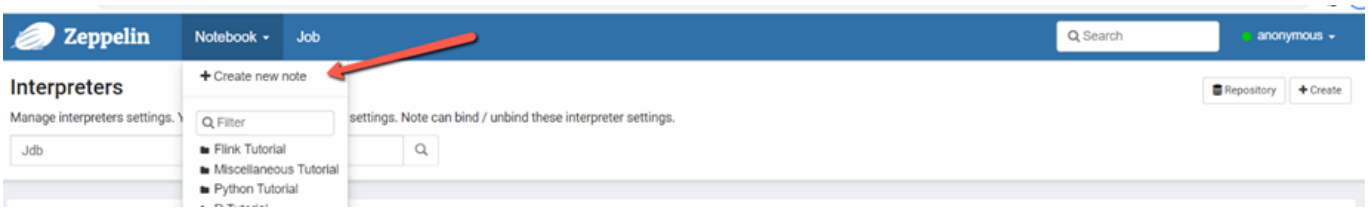
9.1 We continue configuring the JDBC IRIS dependencies



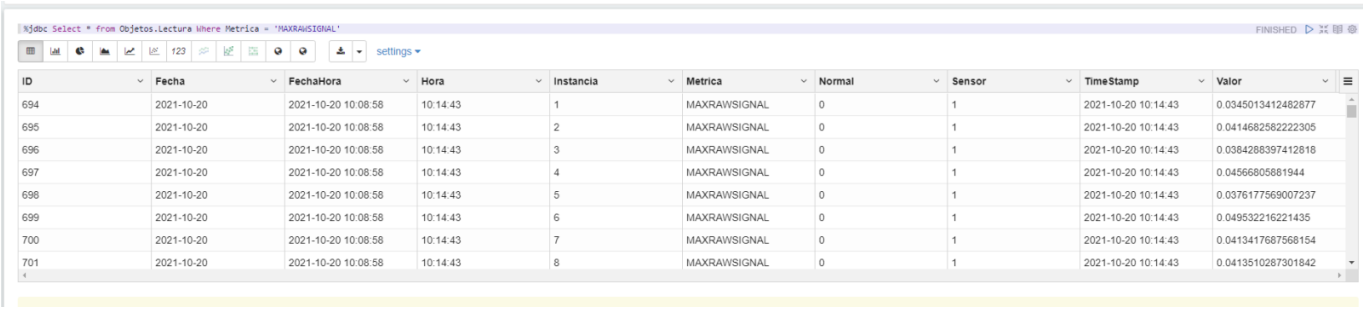
10.- It's Done! now we can use Zeppelin + IRIS

Let's use JDBC interpreter as a quick example

1.- Back in to the Zeppelin's landing page. and create a new notebook

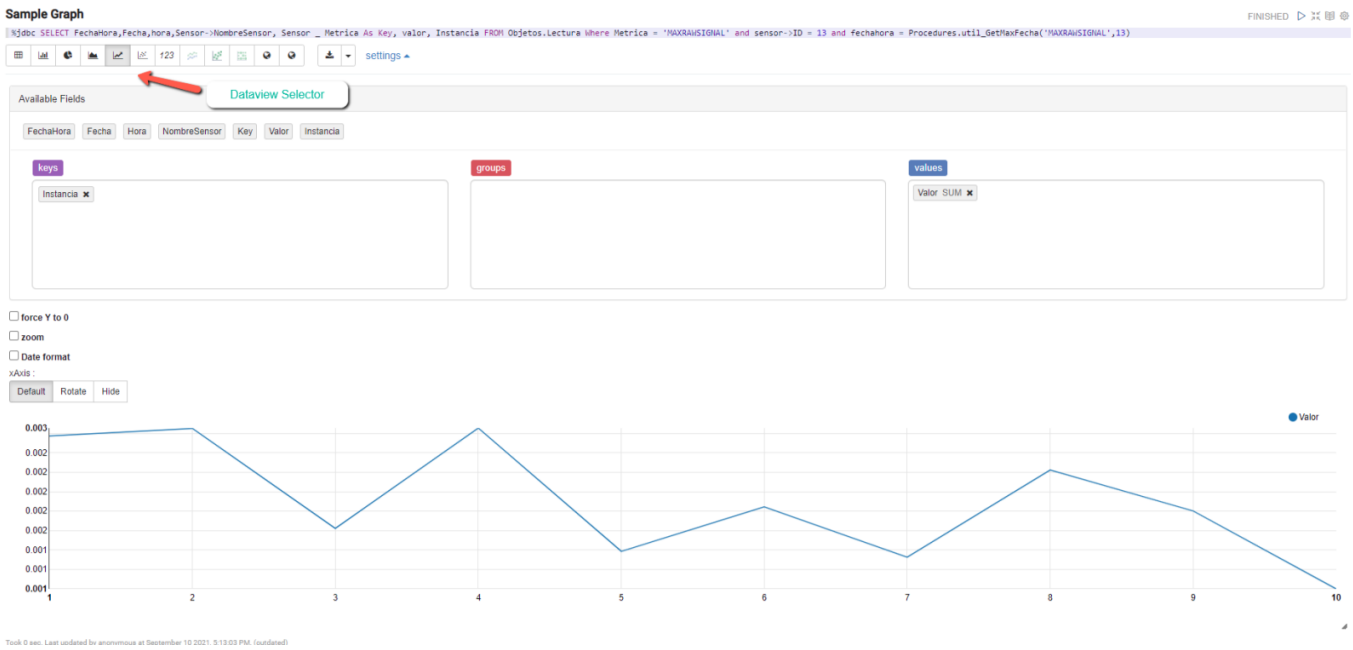


2.- in the new Notebook create a new Paragraph, in the case of using the jdbc interpreter, the sentence must start as ***%jdbc***

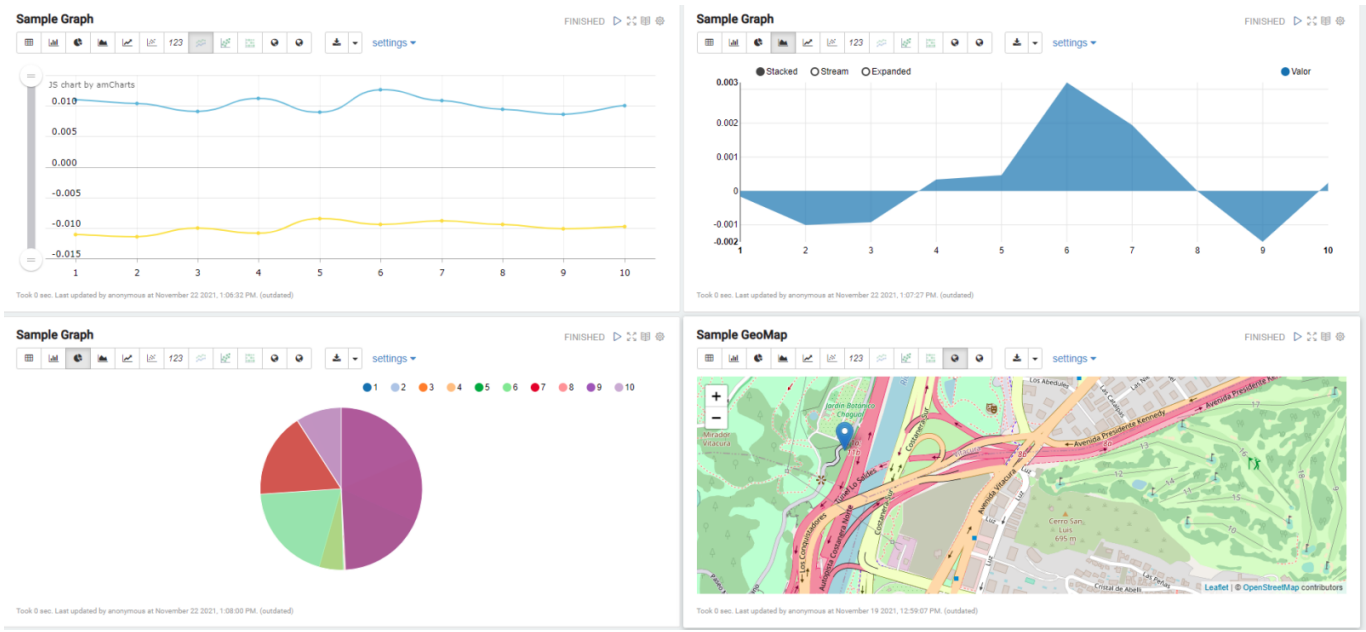


ID	Fecha	FechaHora	Hora	Instancia	Metrica	Normal	Sensor	TimeStamp	Valor
694	2021-10-20	2021-10-20 10:08:58	10:14:43	1	MAXRAWSIGNAL	0	1	2021-10-20 10:14:43	0.0345013412482877
695	2021-10-20	2021-10-20 10:08:58	10:14:43	2	MAXRAWSIGNAL	0	1	2021-10-20 10:14:43	0.0414682582222305
696	2021-10-20	2021-10-20 10:08:58	10:14:43	3	MAXRAWSIGNAL	0	1	2021-10-20 10:14:43	0.0364288397412818
697	2021-10-20	2021-10-20 10:08:58	10:14:43	4	MAXRAWSIGNAL	0	1	2021-10-20 10:14:43	0.04566805881944
698	2021-10-20	2021-10-20 10:08:58	10:14:43	5	MAXRAWSIGNAL	0	1	2021-10-20 10:14:43	0.0376177569007237
699	2021-10-20	2021-10-20 10:08:58	10:14:43	6	MAXRAWSIGNAL	0	1	2021-10-20 10:14:43	0.049532216221435
700	2021-10-20	2021-10-20 10:08:58	10:14:43	7	MAXRAWSIGNAL	0	1	2021-10-20 10:14:43	0.0413417687568154
701	2021-10-20	2021-10-20 10:08:58	10:14:43	8	MAXRAWSIGNAL	0	1	2021-10-20 10:14:43	0.0413510287301842

You will get your data as a table by default, but quickly you can toggle to a graph just changing and setting the view



You can combine different queries , views and layouts to easily get really powerfull dashboards



I really hope that information was useful and feel free to share it or improve it.

#InterSystems IRIS

Source URL:https://community.intersystems.com/post/apache-zeppelin-iris-quick-start