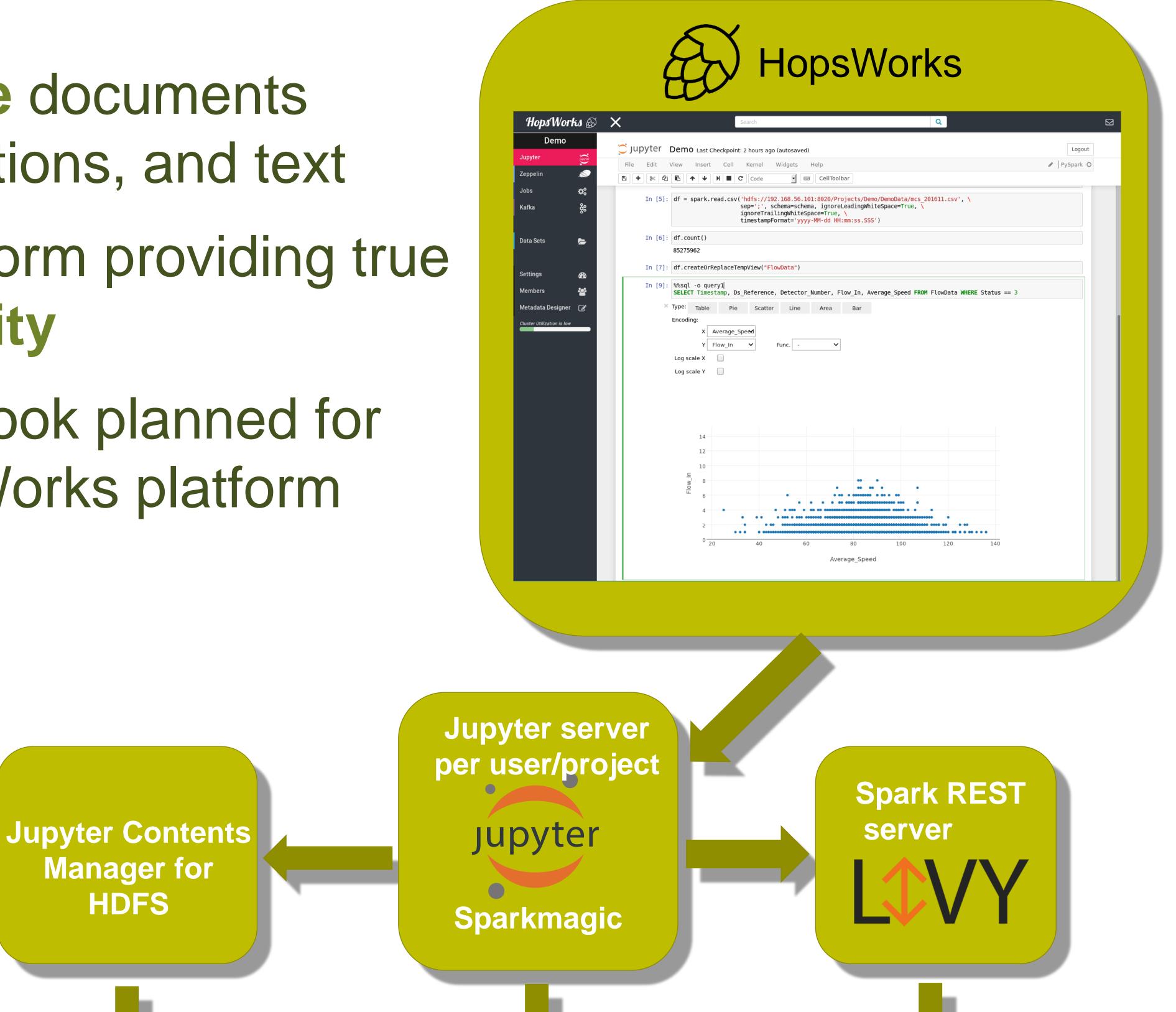
## **RI-HOPSWORKS JUPyter** SE Integrating Jupyter Notebooks into the HopsWork Integrating Jupyter Notebooks into the HopsWorks Platform

- Notebooks are interactive documents combining code, visualizations, and text
- HopsWorks is a data platform providing true

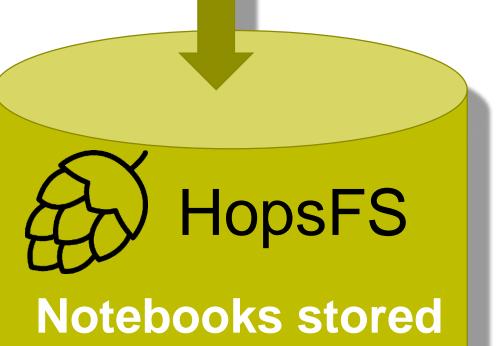


## multi-tenancy and security

 Integrated Jupyter Notebook planned for next release of the HopsWorks platform

## Features

- Jupyter server per user/project
- User data and notebooks securely managed by HopsFs
- Integrated Spark environment through Spark Magic
- Interactive access to Spark cluster using Livy



Manager for

HDFS

securely in HDFS per user/project

Local Storage **Storing user files locally for running Python/Scala** programs



Spark

Cluster

- Took 1 sec. Last updated by BADA\_ahmad000 at May 09 2017, 9:17:49 AM.
- Zeppelin Notebooks are integrated and supported by HopsWorks
- Both notebooks are available to users and can be used in the same project

- Major platforms, such as **Spark** and **Flink**, are supported by Zeppelin
- Supports multi-user collaboration

%livy.pyspark df\_ok.show(100)

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2016-11-01	00:00:	E6N 11,930	50	4	89
2016-11-01	00:00:	E6N 12,380	50	4	93
2016-11-01	00:00:	E6N 12,920	50	5	101
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2016-11-01	00:00:	E6N 14,550	51	1	94
2016-11-01	00:00:	E6N 14,990	50	2	84
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