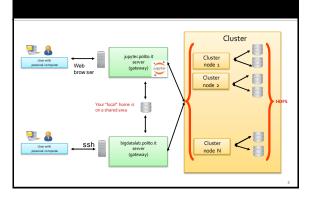


## The BigData@Polito environment



## Jupyter notebooks



- Jupyter notebook
  - Browser-based interactive IDE
- Specific "notebooks" can be used to run Spark applications on the Spark cluster
  - PySpark (Local)
    - Run the application in a container (in a local instance of Spark)
  - PySpark (Yarn)
    - Run the application on the BigData@Polito cluster
  - Both notebooks read/write data from/in HDFS

## Execute an application by using PySpark on a Jupyter notebook

- Copy the input data of your application from the local drive of your personal workstation on the HDFS file system of the cluster
- Open an interactive PySpark shell by using a Jupyter notebook
- Write the python/spark code you want to execute and execute it step-by-step by using the PySpark notebook
- The result is stored in the output HDFS folder specified in your application

