

Key Benefits

- Accelerate application deployment and execution
- Save on license costs
- Save on IT and administration costs

Key Features

- Big data analytics orchestration with Python, R, Spark, Hadoop, Matlab, SAS, Greenplum
- Toolboxes for integration in Matlab, Scilab and R
- Parallelization for scientific computations
- Resource aggregation with clusters, desktops, VMs and clouds
- Monitoring from infrastructure resources to real applications metrics
- Powerful APIs (REST, Java) for integration with your business applications
- Fault tolerance on resource failures
- License management and optimization

Contacts

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At a glance

With *ProActive Big Data Automation*, you can **accelerate your scientific and statistical computations** using a single **Big Data platform**. As modern scientific and engineering problems grow in complexity, the computation time and memory requirement increase and parallel computing becomes a necessity. ProActive integrates with de-facto standards in scientific and engineering environments such as **Python, Matlab, Scilab, Spark, Hadoop and R**. Directly from within these familiar environments, it provides users with the capacity to **parallelize executions** and manage data transfers on other Desktop machines, Clusters, Grids and Clouds. A single tool for accelerating all your scientific languages.

Interoperability and flexibility

We know that a single language cannot fit for every use case, calling for interoperability between multiple languages and services. With ProActive Big Data Automation, you can create a **workflow of multidisciplinary tasks**: start with a Python task for database interaction and input data preparation, then continue with a set of parallel R tasks and finalize with a Matlab task.

Easy scheduling and parallelization

Seamlessly parallelize your scientific models and programs **from your favorite interactive environment** (Matlab and Scilab toolboxes, R Studio). Take advantage of **all your computational resources** such as your colleagues' desktop machines, servers, clusters or clouds. Your current interactive environment, input files, parameters and results are transparently transferred over the network to the target machines.

