**Key Features**

- Many ways to get computing resources are supported: Desktop machines, Clusters (native, PBS, Slurm, SGE, ...), Public Clouds (Amazon, Azure, Numergy, ...), Private Clouds (VMWare, Hyper-V, OpenStack, CloudStack)
- Advanced monitoring capabilities from infrastructures up to your applications. Expose your metrics easily through JMX, REST API or flat-files.
- ProActive is agnostic in respect to operating systems, databases and application servers
- Workflow model with advanced features (job affinity, conditional structures, loops, planification, parallel tasks, ...)
- Fault-Tolerance with failure detection and automatic recovery.

**1 ProActive is a solution for interoperability**

By providing an orchestration tool able to interact with any resource provider such as a Cloud (Amazon, Azure, OpenStack, VMWare, ...), a native scheduler (PBS, Slurm, ...) or desktop machines. Being able to define strategy for job affinity (job related to data location), ProActive is a crossroad paving the interoperability tedious pathway.

**2 ProActive is a solution with powerful web interfaces**

Offering web interfaces for interactive operations, users can build and submit jobs, monitor their execution and retrieve results. Administrators can operate the platform with resources. Also, every operation can be done from command line and API as well.

**3 ProActive is a solution with powerful SDK**

By exposing native objects through a REST API, the job queue or any workflow can be instantiated in a programmatic manner with provided SDK for Java, JRuby, and .NET environments. In that way, the workflow monitor and any interactive tools are still useable and continue to help administration tasks through the web. Also, it allows any client able to conform with the REST protocol to interact, submit and monitor the ProActive tools suite.

**4 ProActive is a solution self-documented**

Workflows, parameters and configuration files are textual. It can be read with any text editor so users and developers can use it effectively only requiring basic knowledge on orchestration concepts.

**5 ProActive is a mature and trusted product**

ProActive is existing since 2007. Numerous customers are using it and they still use it!