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Discover the European multi-cloud HPC Platform for modelling, simulation and data analytics.

Enable your software to sell services for you.
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The cloudSME AppCenter is the frontend of the cloudSME platform technology, which was developed in the EU funded cloudSME project in order to facilitate the access to advanced modeling and simulation software for SMEs.
Why enable your software for the cloud?

Offering a cloud version of your software on a reliable European platform will enable you to:
- facilitate the access to your product and easily attract more customers
- guarantee more convenience to your customers, regarding required software updates
- easily set-up and market new software solutions
- offer HPC as a Service (HPCaaS) as supplement to your software
- guarantee optimal security to your customers, relying on a fully administrated European multi-cloud HPC platform

Main features of the cloudSME Technology

The cloudSME technology enables:
- software solutions to be implemented via simulation software with specific plug-ins
- customized simulation solutions in the cloud
- quickly assemble, reconfigure and interoperate interfaces (APIs)
- enable to provide more security through industry standards, like SSL encryption, secure sessions and authentication
- optimise time to market
- enable to easily share the processing load
- work flows on different passwords and user roles
- support any cloud infrastructure

Basic software integration on the cloudSME platform

First you have to register on the platform and create an account for your company. In the next step you can upload your software to the cloudSME platform.

Afterwards you can deploy (install) your software on a selected infrastructure provided by the platform.

Lattermost the cloudSME AppCenter provides you the opportunity to define your business model (pricing, invoicing per time unit or per run, etc.) to create an SaaS-App in the AppCenter.

The SaaS-App can be also placed on other websites via API (e.g. SaaS interface plug-in for WordPress).

The cloudSME platform structure

The base component of the cloudSME technology is the platform - it enables the deployment and execution of compute-intensive applications on different clouds and widely automates user, software, resource, job and invoice management.

Advanced software integration on the cloudSME platform (API)

Success story „Cluster on Demand“

The Linz Center of Mechatronics (LCM) developed a software tool to design and optimize electrical drive systems, called SyMSpace. SyMSpace is a complex software with high demand for computing resources during the optimization process. For one design optimization the simulation chain has to be run for up to 20000 individual data sets. Typical computation times are 5 - 10 minutes - meaning a computing time for a single computer take up to 150 days.

To solve this issue cloudSME built a „Cluster on Demand Portal“ to run SyMSpace on a virtual machine in the cloud. During the „Optimization through Simulation process“ a cluster of connected slave machines starts the calculations.

Cloud technology made in Europe