

## Cloud computing activities and contributions by CESNET

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CESNET is the Czech NREN and NGL. Its computing branch, METACentrum, has a history of virtualization-based solutions (data center virtualization, on-demand virtual cluster services, etc.), providing mainly computing services for the Czech academic community. It operates its own national private academic IaaS cloud, which is free for academic use. Its establishment was motivated by the need to react flexibly to user communities (mostly provisioning highly specialised worker nodes for scientific computing). CESNET also operates an OpenNebula-based site in EGI's federated cloud platform.

CESNET is active in development for clouds, contributing to major open-source projects such as OpenNebula, EMI or EGI FedCloud, and leading the development of others, such as the rOCCI framework (OCCI library and compatibility service for various cloud management platforms) or Perun (an Identity and attributes manager of choice for many VOs related to the EGI environment).

CESNET also participates in the GN3plus project, focusing on Cloud standardization and interoperability, and on networking solutions for clouds.

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