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L'unione fa la forza anche tra le nuvole

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The Cloud Area Padovana, deployed in 2014, was able to satisfy the computational and storage demands of several INFN research projects, mainly related to HEP and nuclear physics. Its resources were spread between two different sites: the INFN Padova Unit and the INFN Legnaro National Labs.

The Padova data centre also hosted and operated since 2015 an independent IaaS cloud managing network, storage and computing resources owned by 10 departments of the University of Padova, supporting a broader range of scientific and engineering disciplines.

These two clouds shared only a limited set of ICT services and tools (mainly for configuration, monitoring and accounting), whereas their daily operations and maintenance were carried out separately by INFN and University personnel.

At the end of 2017 we planned to merge the two infrastructures in order to optimize the use of resources (both human and ICT) and to avoid useless duplication of services.

The result of this integration, finalized in 2018, is a single (but distributed in two sites) cloud infrastructure named CloudVeneto.it. It now provides almost 2000 computational cores, 4 GPUs and about 300 TB of storage, and is used by about 250 users belonging to more than 70 projects.

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