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Quantitative and qualitative changes in the JINR cloud infrastructure

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High demand for the JINR cloud resources facilitated its sufficient growth. That triggered changes needed to be done to overcome problems encountered and to keep QoS for users: main part of computational resources was re-organized as pre-deployed worker nodes of HTCondor-based computing element to decrease the load on OpenNebula services during mass jobs submission, new SSD-based ceph pool for RBD VMs disks with strong disk I/O requirements, dedicated ceph-based storage for the NOvA experiment, re-organized from scratch Infrastructure-as-a-Code approach based on role and profile model implemented with help of foreman and puppet, migration to prometheus-based software stack for resources monitoring and accounting and some other changes.

Summary

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