



Contribution ID: 27

Type: **Presentazione orale**

Benchmarking of storage solutions in cloud environment: the Cloud@CNAF experience

Thursday, 26 May 2022 11:35 (25 minutes)

Recently, two different storage clusters were added to CLOUD@CNAF infrastructure to support both the Openstack infrastructure and the various usecases and projects. The new hardware was needed to replace obsoleted nodes, to enhance the storage access performance and to improve the user experience.

The arrival of the new storage, allowed the implementation of extremely interesting solutions and the definition of different QoS levels based on the definition of different replica strategies.

We took into consideration solutions like CEPH and GPFS at the infrastructure level and MinIO for user level storage implementation. To evaluate their performances, standard benchmarking tools have been adopted.

We will provide a detailed description of the solutions adopted, based on the benchmarking results, and the performances obtained by further fine tuning configuration.

The results obtained during the test activity will be also used also to define the future infrastructure investment strategy for the CNAF Center and to complete the portfolio of solutions that will be offered globally to the users of the INFN Cloud distributed e-infrastructure

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Session Classification: Tecnologie ICT Hardware e Software

Track Classification: Tecnologie ICT (Hardware e Software)