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INCD's new cloud infrastructure

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A new INCD data centre has recently become operational located at UTAD (Universidade Trás os Montes e Alto Douro in Vila Real). It offers Cloud and HPC computing, as well as Data management services and repositories.

In this work we describe the architecture, deployment and configuration of the cloud IaaS infrastructure based on Openstack. We describe as well, the Ceph storage architecture and deployment that support the underlying block storage for the Openstack and Object storage. A Minio object storage solution was deployed as well.

The architecture and deployment of UTAD's cloud infrastructure is being replicated for the upgrade of the Lisbon INCD infrastructure.

Primary author: DAVID, Mário (LIP)

Co-author: GOMES, Jorge (LIP)

Presenter: DAVID, Mário (LIP)

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