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Lessons learned from the ATLAS performance studies of the Iberian Cloud for the first LHC running period

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In this contribution we expose the performance of the Iberian (Spain and Portugal) ATLAS cloud during the first LHC running period (March 2010-January 2013) in the framework of the GRID Computing and Data Model. The evolution of the resources for CPU, disk and tape in the Iberian Tier1 and Tier2s is summarized. The data distribution over all ATLAS destinations is shown, focusing in the number of files transferred and the size of the data. The status and distribution of simulation and analysis jobs within the cloud are discussed. The distributed analysis tools used to perform physics analysis are explained as well. Cloud performance in terms of the availability and reliability of its sites is discussed. The effect of the changes in the ATLAS Computing Model on the cloud is analyzed. Finally, the readiness of the Iberian cloud towards the 1st Long Shut Down (LS1) is evaluated and an outline of the foreseen actions to take in the coming years is given. The shutdown will be a good opportunity to improve and evolve the ATLAS Distributed Computing system to prepare for the future challenges of the LHC operation.

Summary

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