

GRID BENEFITS IMPLEMENTED IN A COMPUTATIONAL CLOUD

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Nowadays almost everyone is talking about cloud computing, but clouds could be very flexible. Our goal is to develop a computational cloud: cloud that can be scalable and accept large arrays of data. One of the ways is to combine benefits of Grid system in the heterogeneous cloud. As a result of our investigations, we have created a Cloud based on open source Eucalyptus Cloud with integrated computational Grid system which was based on Globus toolkit. For users' level in this system we took frameworks Weka4WS in order to have an easier access to the data computations in this infrastructure. In this article different sceneries of Grid and Cloud consolidation are described. We will go through all advantages and disadvantages of this method, talk about some aspects of open-source Cloud systems. A detail description of the integration Grid system into Cloud environment is presented, too.