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”A year in the life of Eucalyptus”

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Funded by the American Recovery and Reinvestment Act (Recovery Act) through the U.S. Department of Energy (DOE), the Magellan project was charged with a task of evaluating if cloud computing could meet specialized needs of scientists.
Split between two DOE centers: the National Energy Research Scientific Computing Center (NERSC) in California and the Argonne Leadership Computing Facility (ALCF) in Illinois Magellan built based on midrange hardware a testbed spanning both sites.
One of many services offered within this project was Eucalyptus, an open-source implementation of Amazon’s popular EC2 cloud platform. Eucalyptus’ interfaces are designed to replicate the APIs used on EC2. This includes implementing many of the capabilities of EC2 including Elastic Block, S3, Elastic IPs, etc. We ran Eucalyptus services on the NERSC portion of Magellan for the past year and we are going to share high(and low)lights from both the admin and the user perspective.

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