Abstract

Problem: ACME needs a means to manage and disseminate data.

Solution: The Earth Systems Grid Federation (ESGF) is a data management platform designed for the climate science community. The Federation is comprised of a collection of nodes running the ESGF software stack at various sites. Each node supports categorical publishing of data sets, attribute-based search for stored data, and access control. Additionally, the software supports inter-node coordination. ACME has been using ESGF to make its simulation data available. The ACME site is transitioning from the previous “front-end” user interface to CoG: the latest Web-based content delivery system adopted by ESGF. Some other developments to ESGF that will directly benefit ACME include: HPSS archive access; server-side and cluster analysis capabilities; an improved “node-manager” for ACME node coordination.