Data Center Migration for Ground Systems: Geospatial Clouds

Working Group Preview

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Motivations for this Workshop

• Cloud computing offers the potential for significant economies of scale, improved utilization of servers, more flexible allocation of resources, and workload management
  – Cloud computing entails the dynamic provisioning of processing, storage, and networks in a data center to essentially become a generic hosting environment, prompting the concept of "Data Center Migration" for ground system operators

• How do we apply cloud computing in support of satellite ground systems?
  – Serious challenges concerning security, performance management, portability, interoperability, costing models, lack of standards, etc.

• How do we integrate geospatial standards and tooling with dynamically provisioned resources?
  – Geospatially referenced data are central to many ground systems