

# Weekly Meeting minutes & Progress Reports

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### June 12 - June 17

#### Meeting Minutes:

- Neel has some google docs about MS Azure and Amazon EC2 summary. Needs to migrate to wiki.
- Both Neel and Di have RefWorks lists and papers collected. Needs to put links to the RefWorks in the Links page.
- Needs paper summary/highlights write-up in the wiki.

### June 19 - June 24

#### Progress:

- Neel
  - Researched Public Cloud Services
  - Researched Community Cloud Services

#### Meeting Minutes:

- Neel
  - Needs to find who is working on FutureGrid/Magellan, poc.
  - Clarification of areas of investigation: cloud platform, cloud middleware, cloud application
  - Research "[Google to Host Terabytes of Open-Source Science Data](#)"

### June 27 - July 1

#### Progress:

- Neel
  - Researched and collated information about the following cloud platforms
    - OpenStack
    - Eucalyptus
    - OpenNebula
    - Nimbus (In-progress)
      - Poor/Disorganized/Vague Documentation
      - May need to Install and Explore
  - Updated Amazon and Azure wiki pages in light of recent significant service changes
  - Researched for more information on FutureGrid/Magellan.
    - Don't have enough/updated information
    - Still need to find someone who has worked on them.
- Di
  - Summarized papers in Biology, Astronomy, and High Energy Physics.
  - Filtered and collected papers (25) in different areas.

#### Meeting Minutes:

- Revise the science papers wiki outline/heading
- more information needed for FutureGrid/Magellan
- Looked at Geoffrey Fox's papers for science stories
- By the end of next week (the 4th week of this project), we should check if we are ready to write the white paper.

### July 5 - July 7

#### Progress:

- Neel
  - Researched Multi-Cloud APIs
    - JClouds
    - Apache DeltaCloud
    - Apache LibCloud

- JClouds
  - Jets3t
  - SMEStorage
  - Typica
- Still waiting for someone to respond about FutureGrid/Magellan
- Di
  - Revised the outline/heading of the science papers wiki
  - Selected and summarized papers in GIS area
    - Start from "Spatial Cloud Computing" paper from GMU
    - Five papers summarized, 10+ papers collected but not summarized yet.
  - Selected papers from Geoffrey Fox's group (Biology & Environmental)
  - Selected papers in Environmental science (Starting from the groundwater modeling paper)
  - Also selected papers from other environmental science areas such as Climate science etc.

Meeting Minutes:

- Neel
  - Highly Parallel Data Processing Frameworks (MapReduce/Sphere)
  - Distributed File Systems (XtreemFS, Oracle, HDFS, Ghost, CloudStore, Fossil, GPFS)
  - Distributed Table Service/Platforms (HBase, Hypertable, HBase, Amazon SimpleDB, Azure Table Service, Space)
- Di
  - Summarize collected papers from GIS, Biology and Environmental sciences.
  - Collect and summarize papers from Astronomy area.
  - Keep an eye on papers mentioning application on community clouds, opensource cloud platforms and multi-cloud APIs.

## July 11 - July 15

Progress:

- Di
  - Have a draft of the overview of GIS summaries
  - Summarized biology/bioinformatics papers
  - Ready to summarize astronomy and environmental science papers now

Meeting Minutes:

- Next week (Di)
  - Should be able to finish first drafts of "summary of summaries" for biology, astronomy and environmental science
  - Will keep expanding paper collection and adding information to the summary for each area

## July 18 - July 22

Progress:

- Neel
  - Google App Engine
  - Summarized Benchmark Studies for Hadoop HDFS/MapReduce and Sector/Sphere
  - Added Interoperability metric to Hadoop HDFS/MapReduce and Sector/Sphere
  - Added Scientific Applications metric to Hadoop HDFS/MapReduce and Sector/Sphere
- Di
  - Done: biology summary (of summaries); GIS summary (of summaries); may need some modifications/additions
  - Paper collections: biology (15), GIS (15 papers) so far

Meeting Minutes:

- Di
  - In-progress: environmental and astronomy (need another week to finish)
  - Paper collections: need more paper from environment (10)/astronomy (8)

## July 25 - July 29

Progress:

- Neel
  - Researched Nimbus
  - Researched Magellan
  - Researched FutureGrid
  - Researched Science Clouds
  - Researched WSO2 Stratos
- Di
  - Summary of summaries: Astronomy and Environmental science
  - Statistics of cloud platform and software usage
  - Papers for Astronomy and Environmental science

Meeting Minutes

- Neel
- Di