vrije Universiteit amsterdam

CCGrid2013 Panel on Clouds

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Who am I?

- **Professor at VU University Amsterdam**
  - High Performance Distributed Computing group
    - SCALE 2008 Ibis: wall-socket grid computing
    - SCALE 2010 Web-scale Parallel Inference Engine
- **Vice chair CCGrid 2013** track Programming Models, Systems, and Fault-Tolerant Computing
- **DAS: Distributed infrastructure for Dutch Computer Science**

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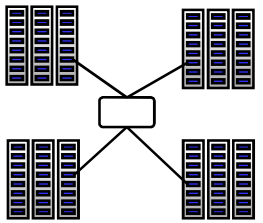
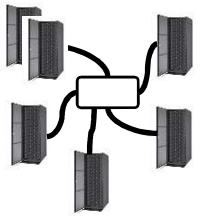
COMMIT/

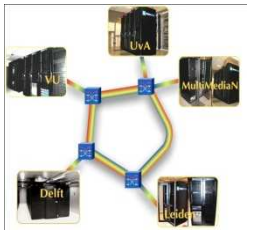
Advanced School for Computing and Imaging

How did I get here?

- **Cluster computing**
  - Zoo (1994), Orca
- **Wide-area computing**
  - DAS-1 (1997), MagPIE
- **Grid computing**
  - DAS-2 (2002), Manta
- **eScience & optical grids**
  - DAS-3 (2006), Ibis
- **Hybrid computing, green clouds**
  - DAS-4 (2010), Glasswing







Cloud computing

- **Own favorite Cloud topic**
  - Integrate smartphones and clouds to build advanced sensor networks

  - COMMIT: Sensor Driven Coaching for Healthy Living
- **What my customers like**
  - DAS 1-4: Used for >100 PhD theses since 1997
  - Ibis: used for climate modeling, astronomy, …

netherlands eScience center

- **Next challenge**
  - Data explosion: handling volume & semantics & dynamics
  - Real-time incremental reasoning on web scale, combining new (streaming) data & existing historic data