

# Cloud Activities at the Open Grid Forum

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# OGF Cloud Activities

- Open Cloud Computing Interface Working Group
  - Simple, RESTful API
  - ~15 commands -- very extensible
- Founding member of cloud-standards.org
  - Informal group for coordination across cloud SDOs
    - OGF, DMTF, SNIA, CSA, others
  - [CloudStandards@GoogleGroups.com](mailto:CloudStandards@GoogleGroups.com)
  - Considering set of joint demos when implementations available
- Pursuing coordination across multiple national cloud initiatives
  - US Cloud Storefront
  - UK G-Cloud
  - Japanese Kasumiyaseki Cloud

- An informal group of Standards Development Organizations (SDOs) collaborating to coordinate and communicate standards for cloud computing and storage
  - Wiki: [cloud-standards.org](http://cloud-standards.org)
  - Mailing List: [groups.google.com/group/CloudStandards](http://groups.google.com/group/CloudStandards)
- Different SDOs bring different but complementary technologies & capabilities
  - Storage, execution models, deployment models, service level agreements, security, authentication, privacy
- All interested, committed persons and organizations with relevant technical skills can participate
- A Little History
  - Enterprise Cloud Conference, Open Group, Feb. 3, San Diego
  - SATCCI, OMG, March 23, Arlington/Crystal City
  - Cloud Standards Summit, OMG, July 13, Arlington/Ballston
  - Standards for the US Cloud Storefront, NCOIC, Sept. 21, Fairfax

# Leading Organizations



Open Cloud Consortium



Courtesy Richard Soley, OMG

# Federal Cloud Symposium Washington, DC, July 15



# Cloud Standards Summit

- Hosted by NCOIC, Sept 21, Fairfax, VA
- Attended by US Cloud Storefront organizations:
  - GSA, DOE, EPA, NIST, OSD-NII, DISA, others
  - apps.gov and data.gov stood-up
- C. Lee represented cloud-standards.org and OGF
  - Proposed open cloud demos using, e.g., OCCl, OVF, CDMI
- All briefings available at
  - [http://federalcloudcomputing.wik.is/September\\_21%2c\\_2009](http://federalcloudcomputing.wik.is/September_21%2c_2009)
- Cloud Storefront considering roadmap possibly including demos
- Similarly engage G-Cloud, Kasumigaseki, Canadian effort, Singaporean effort, ...
- Proposal to harmonize across OCCl, vCloud, delta-Cloud, SimpleCloud, ...
- Follow-on national cloud meetings planned
  - Long Beach, Tel Aviv, Ottawa, ...

# Scenarios from G-Cloud



1. A 'virtual machine image' can be transferred between, say, "supplier A's" data centre running Microsoft Azure, and "supplier B's" facility using VMware or Zen.
2. A cross supplier brokerage service can be established enabling the 'discovery' of available capacity and the ability to agree a 'spot contract' for using it.
3. There are mechanisms that enable secure access to data and business logic across different vendors data-centres, used in conjunction with 2.
4. It is straightforward to action the actual transfer 'out' and 'back in' of a workload – w/ confidence in information security and service standards.
5. Service management teams can maintain service delivery standards even where workload is switch between different suppliers data centres; enabled by standards for svc monitoring; problem detection/resolution.
6. Many legacy applications can be transferred into the cloud environment , and then dynamically allocated to available capacity -- enabled by standards for tools that automate migration of more complex legacy apps (eg mainframe, 3 tier etc) into the virtualised cloud environment in a standard way.