IaaS - The Norwegian Way

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UNINETT

- 170 institutions, HE + research
- Network + federation + security
- HPC / e-infrastructure (UNINETT Sigma2)
- Development programmes; administrative systems, campus networks, education services - cloud services (UH-sky)
- Above the net services - administrative, education - selfmade, reseller, frameworks
- 100+ employees, 25 in service procurement, management, delivery & marketing
UH-sky (HE Cloud) - the Norwegian cloud initiative

- Development program, started in 2013 by UNINETT and the 4 major universities
- Ministry funding 2016 - 2018, € 1.5 million/Y
- Coordinated by UNINETT
- Mission:
  Establish a National cloud solution for HE, with infrastructure platform and brokerage & management of a HE cloud service portfolio.
Hybrid approach to IaaS

- Private Community Cloud: UH-IaaS
- Commercial Community Cloud: IPnett
- Commercial Public Cloud: GN IaaS agreements

PaaS

Institutions & users
We are prepared...

- Checklist / cookbook with JRA4 T3
- Procurement team on the case
- Service department in the loop
- Run by our clouds initiative - incl. Jan Meijer (T2 leader) and myself
- Review the agreements for Norway
- Meetings/talks with all vendors
- Establish «shortlist»/change weighting?
- Push or Pull?
- Cost recovery?
For the reseller role

But: we also act as a referrer/broker for framework agreements
- the role we have chosen for the IaaS framework
Cloud Service Life Cycle

- Preliminary
- Realization
- Management
- Decommissioning

- Requirements
- Implementation
- Decline in demand
Cloud Service Catalogue

- Available, or planned, services
- From UNINETT
- From the HE Sector
- Commercial services
- Resold, brokered, or just referred/recommended

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Call off

- Referrer - the institutions need to do the call off
  - But we might want to do some of the work for them
- Direct call off - if happy with GÉANT requirements and ranking
- Revise weightings (objective awarding criteria)
  - Direct call off
- Mini-competition - for tailor-made solutions;
  - Technical
  - Operational (reporting requirements, etc.)
  - Legal (e.g. specific legal terms needed in the service agreement)
  - Financial (cost recovery, additional discount)
Legal & security

- Service commencement agreement
- Existing licence agreements?
- Risk analysis
- Data protection agreement
  - Template from UNINETT
  - Make data analysis tool available?
Federated login & direct peering

- Wait for SAML2/eduGAIN, or temporary solution?
- Check what the vendors offer (commitment plan)
- Peering - GÉANT or NORDUnet?
- Formal & technical - what needs to be in place?
Engaging with the community

- Formally; steering committee, reference group
- Cloud contacts
- SIGs:
  - portfolio
  - technology
  - legal & security
- Conferences & workshops
- Newsletter, web page, customer magazine
- Cloud tour? - meetings, workshops, etc.
Questions?