Activities since March 2021

**Events**
- IaaS+ Framework Launch, May 2021
- 5 GÉANT Cloud Forums (Google, EUNIS, Schrems II)
- TNC21
- 16 NREN cloud consultation interviews
- NREN CTO workshop

**Services delivery & business desk**
- IaaS+ FW (482 services)
- Preferential Quotations (Dropbox, Nextcloud, ownCloud, Paldesk, Zoom)
- eduMEET vconf
- GÉANT Cloud Flow (GCF) in Pilot (included in TF-eHealth as the work item)

**Development**
- New software: Multi-Cloud Management System
- Existing software: eduMEET, GÉANT Cloud Flow
- OpenUp2U & Up2U activity integrated to GÉANT Clouds

**Collaboration**
- Global Clouds in July 2021
- GÉANT-EUNIS cloud activity started
- Catch-ups with NII/SINET (Japan)
- GÉANT other teams: SIG-MSP, TF-EDU, Security, Stakeholder Engagement, GÉANT Compendium, etc.

Cloud Adoption Support *(guidelines, tools, environments, event management, etc.)*
NREN Cloud Consultations 2021

Topics

Usage of the NREN and GÉANT cloud portfolios
- Key cloud services brokered/operated by NRENs
- Awareness and usage of the GÉANT community based offerings

Future needs of NRENs and their connected institutions
- Services that need to be supported for users requirements
- Interest in providing services to other NREN communities, and vice versa
- Community cloud services of most interest
- Estimation for the need for 3rd party vconf licenses

NREN environment, changes and challenges
- Changes in NRENs and their impact on cloud services
- Challenges that need to be solved, incl providing/supporting clouds
- Clouds evolving / developing in NRENs
- Interest in jointly developing common solutions to these challenges
NREN Cloud Consultations 2021
Conclusions: Changes in NREN environments & challenges

Covid influence, digital transformation in organisations, business models

Ecosystem of partners as trend, not in-house developments

Cloud usage will move from commodity IaaS to higher value compute & storage (IaaS, PaaS, CaaS) granting trust, privacy, security, open access. Multi-cloud platforms as a norm.

Challenges: cloud competence, co-creation & NREN resources, one solution does not fit to all NRENs, sustainability of offers, data protection
Questions raised that NRENs need to answer

What role do NRENs see in the process of digital transformation in organisations?

- Before further steps clarify NREN role & mandate re digital transformation support!
- Does the self-view of NRENs’ role match with the view of their connected organisations? ...if IT-dep (major NREN stakeholders) do not drive online services adoption.

How to combine office & home, data and compute access over multiple clouds? (also, BYOD management in campus)

Build what you must, buy what you can. Currently the attitude of many NRENs is vice versa.

How to guarantee data sovereignty?

How to find balance between commercial providers from US and Europe?
Thank you

Any questions?

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