



GÉANT

Cloud Update

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WORK PACKAGE LEADER, WP4

GÉANT SIG-Marcomms meeting, 30 September 2021

Restricted

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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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