

SIG-CISS at CS3

Slides v2.0 March 6, 2023

Mario Reale

Senior Research Engagement Officer GÉANT

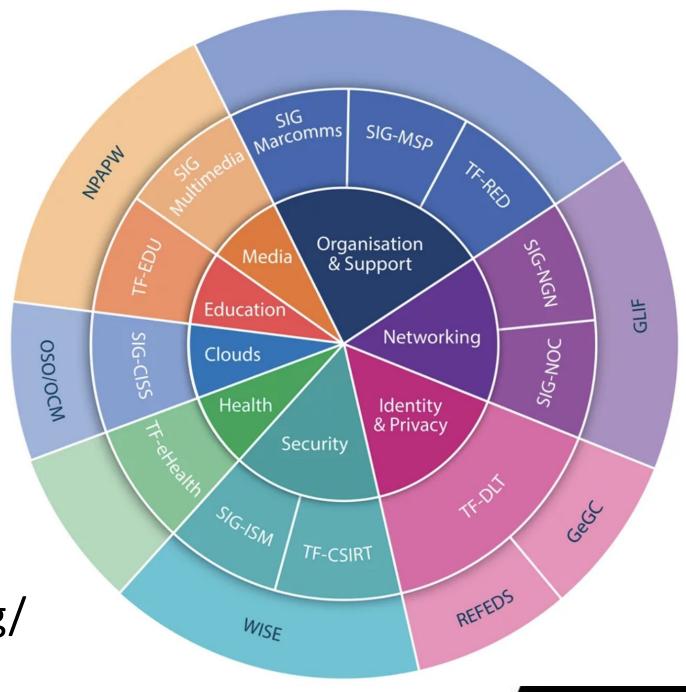
www.geant.org



The GÉANT Community Programme

- Brings the NRENs and Research and Education Community together to tackle common challenges
- Main goal is to exchange experiences, best practices, share hands-on expertise in various domains involving the NRENs, their services and their connected community of users
- Implemented through Special Interest
 Groups and Task Forces

https://community.geant.org/



The Special Interest Group on Cloud Interoperable Software Stacks SIG-CISS: mission and goals 1/2

- To provide a forum for gathering and exchanging experiences and knowledge on the development, deployment, testing and standardisation of cloud infrastructure software stacks, platforms and workflows
- To share deployment and operations best practices about all the pillars of the cloud infrastructure
 Leverage CS3 (CERN) and OSO (SWITCH)
- To stimulate joint efforts in solving everyday operational issues, developing software components as needed, building and maintaining infrastructure and platforms
 - i. including shared / transnational deployments
 - ii. conducting PoCs
 - iii. defining functional and quantitative tests
- To improve awareness of software and hardware solutions available on the market and infrastructures, platforms and services provided by NRENs

SIG-CISS mission and goals

- To help identify current and future requirements and workflows of the scientific/academic community
- To provide an interface among operators and owners of the cloud computing and storage infrastructure (IT experts) and the actual users (institutions, communities and collaborations
- To define, stabilise and promulgate mutually agreed upon APIs as exported by NREN cloud stacks, preferably globally recognised APIs
- To engage with RDA, TF-RED, EUDAT, PRACE, EGI and other related groups.
 Aim for a common cloud platform for execution, plugging in workflows from researchers (interoperability)



SIG-CISS: roadmap from the Steering Committee (about 1 year ago)









Rebuild the community:

Guido Aben, Nordunet

Maciej Brezniak PSNC

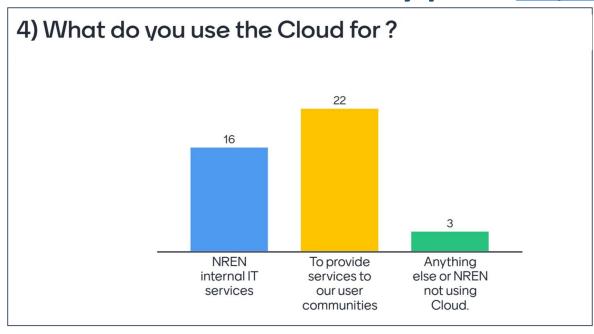
Jan Meijer SIKT

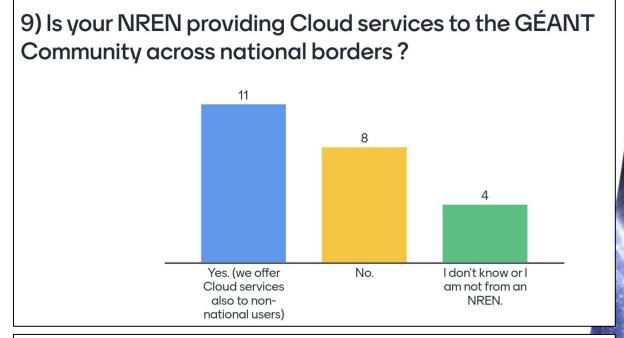
Claudio Pisa GARR

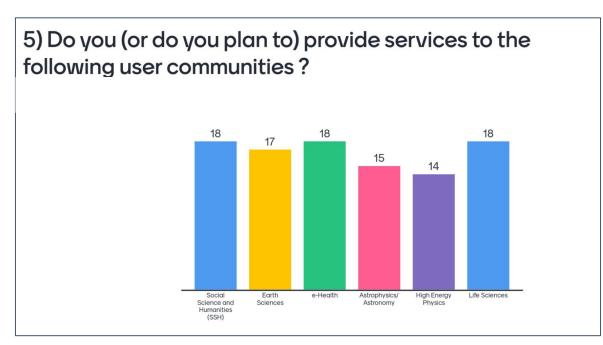
- sharing experiences about operating and using the Cloud
- Focus on the topics where synergies among the NRENs can deliver:
 - Operating and Using the Cloud (rather than just splitting the community in Builders and Buyers)
- Contributing upstream to key open source projects when possible/required
- Evaluate the possibility to jointly work on specific PoCs of interest



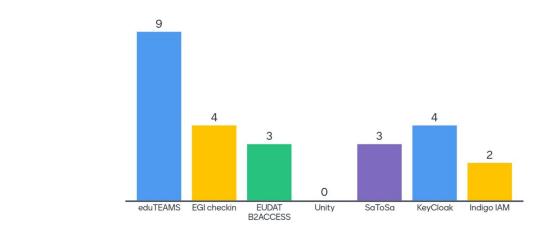
Outcomes of community poll - https://bit.ly/menti-6th-sig-ciss





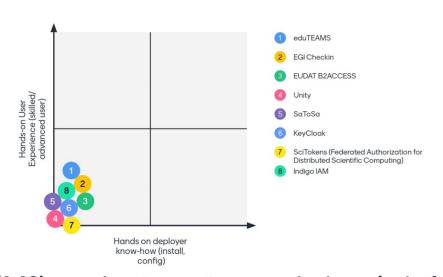




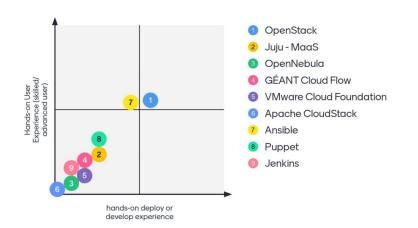


Outcomes of community poll - https://bit.ly/menti-6th-sig-ciss

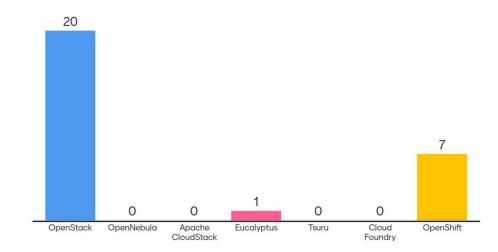
12) Rate (1-10) your direct experience as deployer (when it applies) and as user on specific AAI solutions (for AuthN, AuthZ or both)



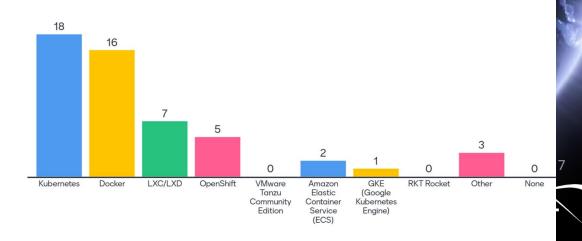
14) Rate (1-10) your direct experience as deployer (only if and where it applies) and as user/tester of specific Platforms/Tools



13)Which of the following Cloud platforms is or will be relevant for the provisioning of your NREN cloud services?

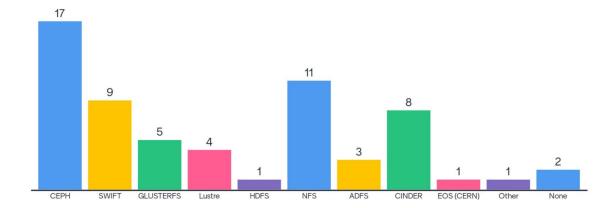


15) Which container platform is of relevance for your NREN Cloud services (already adopted or planning to adopt it)



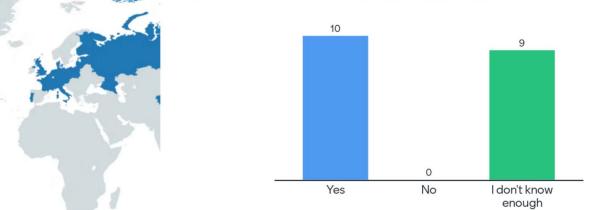
Outcomes of community poll - https://bit.ly/menti-6th-sig-ciss

16) Storage: which of the following platforms or distributed filesystems is relevant for your NREN (currently in use or already planned)











How can GÉANT and the SIG-CISS be useful to CS3?

- Involve NRENs and the CS3 community in PoCs on selected, specific cloud platforms components of common interest
 - Testing and benchmarking Storage Performances over the WAN
 - Leveraging GÉANT DTN network
- Monitoring the landscape on the evolution of key aspects related to Cloud platforms e.g. AAI components File Systems Storage platforms Hybrid and Private Cloud
- ASK vendors in providing updates on latest hardware solutions and storage platforms
- Building a Community Knowledge DB on Storage platforms
- [..] Any other idea ? reach out to SIG-CISS!





Wednesday's SIG-CISS: 15:15 to 17:50 - Agenda - You are ALL WELCOME

Time	Talk	Speaker	Duration	Topic	Notes
*******		-			
15:15-15:20 CET	Opening	Mario Reale GÉANT	5 min	opening agenda	On Site, in person Presentation
15:20-15:40 CET	Overview of the Cloud activity in the GÉANT GN5-1 Project	Maria Ristkok EENET Jakob Tendel DFN	20 min		Remote Presentation
15:40-17:25 CET	SOLUTIONS AND TECHNOLOGY SHARING FROM THE COMMUNITY SESSION		1h 30 min + 15 min break		
15:40-16:00 CET	ABEBox: end-to-end encryption for Cloud-based file sharing services	Emanuele Raso Seconda Universita' di Roma -Tor Veragta	20 min		Remote Presentation
16:00-16:25 CET	OpenShift and Kubernetes at CERN	Jack Henschel CERN	25 min		Remote Presentation
16:25-16:50 CET	PBSPro-Kubernetes Connector for Seamless HPC Submission	Viktoria Spisakova Institute of Computer Science Masaryk University	25 min		Remote Presentation
16:50-17:05 CET	Coffee Break		15 min	Coffee Break	
17:05-17:25 CET	TripleO for the under and upper Cloud	Andrea Dell'Amico Franca Debole CNR-ISTI Pisa	20 min		On Site in person Presentation
17:25-17:45 CET	NRENS BUILDING CLOUDS REPORTS SESSION		20 min		
17:25-17:45 CET	HEANet reporting	Glenn Wearen HEANet	20min		Remote Presentation

Thank you!

https://wiki.geant.org/display/CISS/SIG-CISS+Home

mario.reale@geant.org sig-ciss@lists.geant.org

