

Welcome, Introduction & Rucio status



Welcome

- Thank you for the fantastic response!
 - 66 participants
 - 21 communities
- 2nd Rucio Community Workshop
 - Community is growing!
 - Open-source contribution model works very well
 - Community focused workshop
 - For concept slides: [1st community workshop](#)



Many thanks to the PC & LOC: Vincent, Mario, Cedric, Eric, David, Maiken, and Farid!



Workshop objectives & goals

- Community building
 - Connecting the developers with the scientific communities
 - Communities who are using Rucio
 - Communities who are interested/evaluating Rucio
- Discussion
 - Discussing use-cases, issues, and ideas
 - Gather information and feedback
- Planning
 - Planning the medium/long term software development roadmap
 - Identifying collaborations and contributions



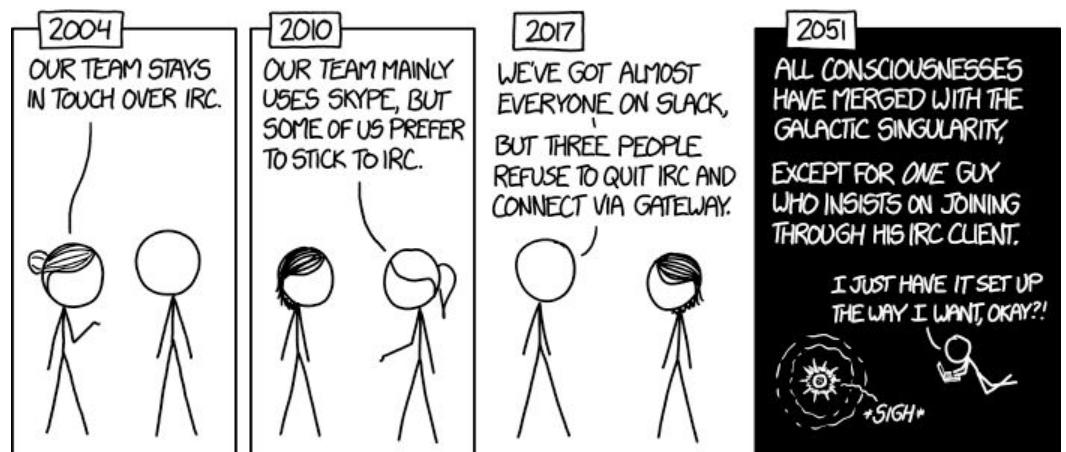
Agenda

- Two Keynotes
 - Thursday: Richard Hughes-Jones - Concepts and Architectures for the Next Generation Academic Networks
 - Friday: Gudmung Høst - The Nordic e-Infrastructure Collaboration (NeIC)
- Six community presentation sessions
 - Presentations 15' + 5'
 - Focus: (intended) Rucio usage, use cases, issues, and evolution
- Discussion sessions at the end of each day
 - Topics which do not fit directly after the presentation will be discussed there
- Technical discussions (developer focused) Friday afternoon



Interactivity

- Register to the Rucio [Slack](#) and join the #workshop channel
- Contribute to the workshop [notes](#)
 - Add topics for the discussion sessions or make general comments
- For general Rucio communication: Join the [rucio-users](#) mailing list!





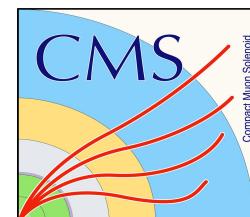
Community



Advanced European Network of E-infrastructures
for Astronomy with the SKA



Science & Technology
Facilities Council



ICECUBE
SOUTH POLE NEUTRINO OBSERVATORY





The contributors

- Development team getting bigger!
- 2017
 - 540 commits from 12 contributors
- 2018
 - 775 commits from 29 contributors
 - Top-10 contributors responsible for 85% of commits
- Discussions in weekly development meetings
 - [Indico](#)
 - Planning meeting (3-4 month plan) for each feature release
- Very active participation on [Slack](#)

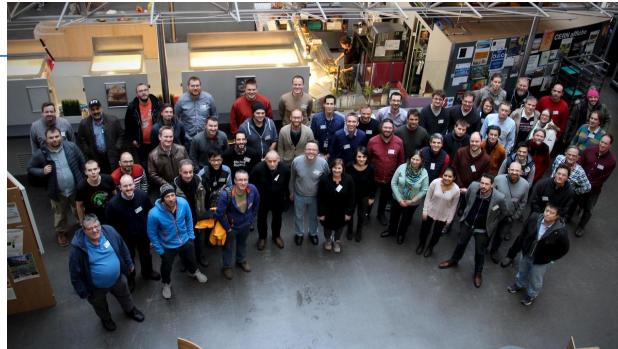


Rucio coding camp 2018



Rucio in 2018

- 1st Rucio Community Workshop
 - [Indico](#)
- 1st Rucio Coding Camp
 - 14 participants; ~3500 LOC added
 - [Indico](#)
- New project logo
- 4 feature releases (415 added features/solved issues)
 - [1.15.0](#) “Daredonkey”
 - [1.16.0](#) “Doctor Donkey”
 - [1.17.0](#) “Donkey Surfer”
 - [1.18.0](#) “Invisible Donkey”
- CMS decided to use Rucio for LHC Run 3!
- Rucio Journal Paper: [arXiv](#)





Plan for 2019

- 3 feature releases
 - [1.19.0](#) “Fantastic Donkeys” (February)
 - 1.20.0 “Wonder Donkey” (June)
 - 1.21.0 “Donkeys of the Galaxy” (October)
- Participation/Involvement in funded projects
 - [XDC](#)
 - [ESCAPE](#)
- Development plan
 - Improvements of the Reaper (Deletion daemon)
 - Automatic workload partitioning/scaling; Performance improvements
 - Simplifying the integration of community specific policies, schemes, and permissions
 - Tape Carousel
 - Increased usage of tapes
 - Optimized staging and writing to tapes



Plan for 2019

- Development plan (cont.)
 - Docker & Kubernetes
 - Focus on turnkey-, scalable deployment via Kubernetes
 - Quality of Service - Evolution of Storage
 - Representation of QoS parameters in Rucio (RSEs, Replication rules, RSE expressions)
 - Expanding authentication
 - OpenID, Macaroons, Scitokens, edugain
 - Fully transparent archive support
 - Exporting and Importing of topology via JSON (RSEs, protocols, distances, accounts, ...)
 - Preparation for full CRIC support
 - Improvements to Popularity based replication daemon (C3PO)
 - Improvements to the generic metadata support based on JSON columns



Plan for 2019

- 2nd Rucio Coding Camp
 - Second half of 2019
 - Most likely again at CERN, or close to CERN
 - For 2020 maybe in combination with the 3rd Rucio Community Workshop?

**Thanks for participating and
let's get started!**