



HIBAL

HELMHOLTZ International BigBrain **Analytics & Learning Laboratory**

WP4 – Identifying & Overcoming Challenges in **European Bouerrau Installations on HPC Systems** Prof. Dr. - Ing. Morris Riedel

27 May 2021 | Steering Board Meeting



MECHANICAL ENGINEERING AND COMPUTER SCIENCE





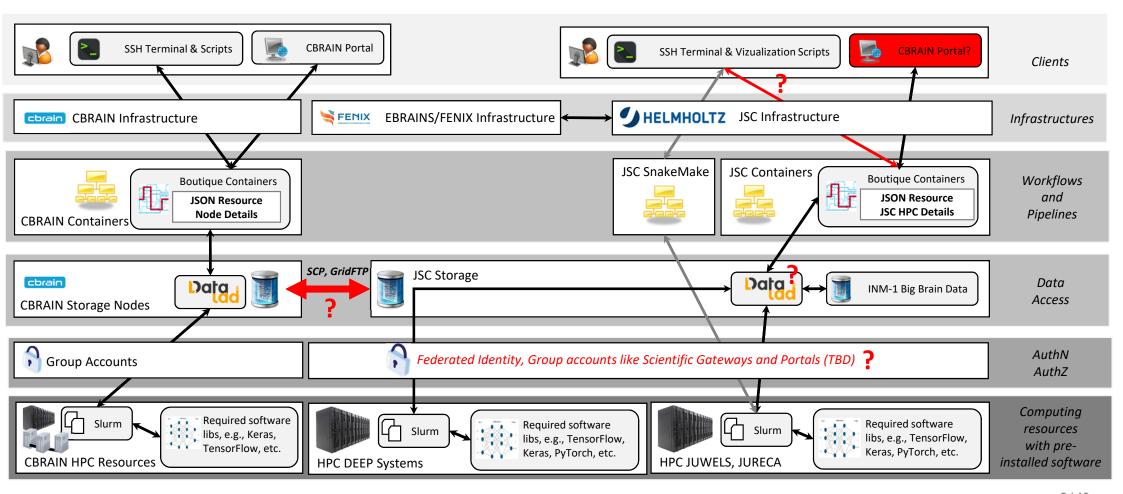






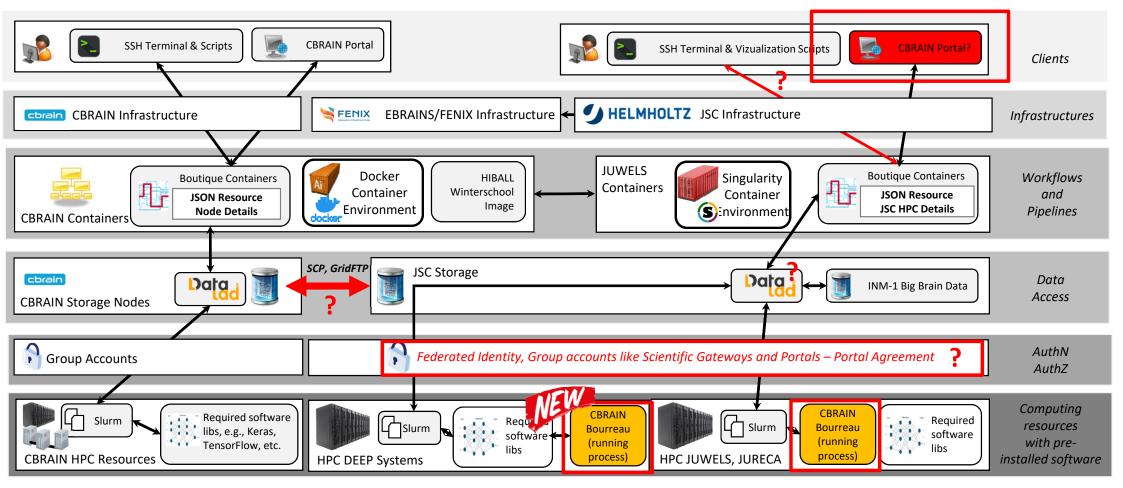
Initial Draft Architecture of Joint Infrastructure





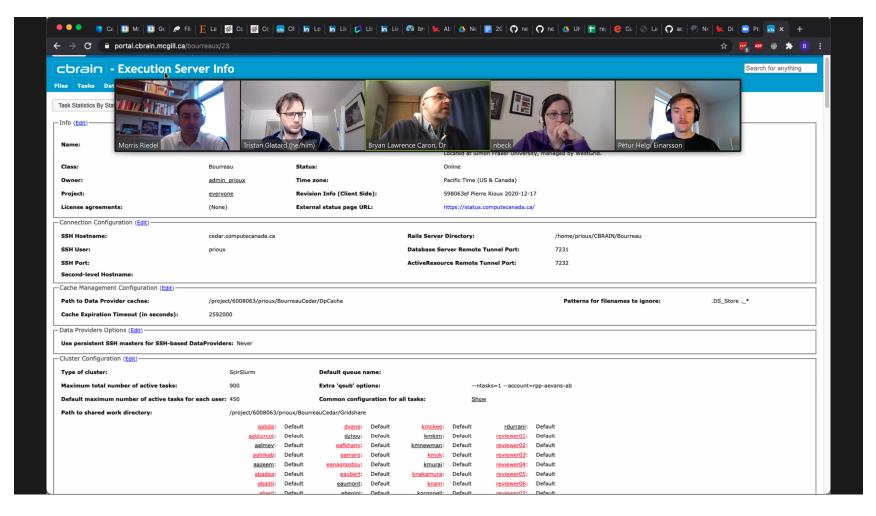
Revised Architecture of Joint Infrastructure (working)





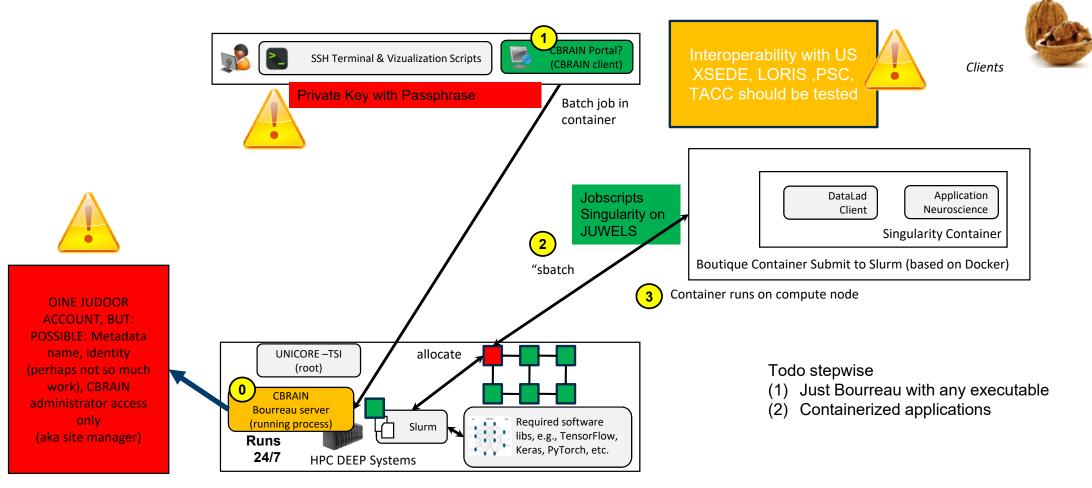
Lots of Meetings – Identified new Challenges





Work-in-Progress – CBRAIN Challenges





Paper Writing (last SB Meeting)



IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, VOL. 12, NO. Y, JUNE 2019

A transatlantic infrastructure to share and process Big Brain datasets

Petur Helgi Einarsson (D), Mohammad Shahbaz Memon (D), Member, IEEE,

Morris Riedel (D), Senior Member, IEEE,

Katrin Amunts, Senior Member, IEEE,

Canadian Team, Alan Evans, Tristan, Bryan, Natacha Beck, Pierre Rioux, Valérie Hayot-Sasson, Member, IEEE,

Abstract—TBD: Later after main part of journal is written TBD
TBD

This paper is structured as follows. After the introduction, the scene is set it ...

TBD TBD TBD

TBD

TBD

Summary & Next Steps in WP4



CBRAIN

Bourreau (running

process)

Modular

DEEP/JUWELS

- Many Meetings
 - Joint meetings & FZJ Meetings for Portal Identity
- Progress and new challenges identified
 - CBRAIN Bourreau (running process) at JUWELS/DEEP:
 Concept is ready, pending administrator dependencies installations,
 work-in-progress by Shahbaz Memon (FZJ, new in HIBALL)
 - Passing identity solution and ssh private passphrase implementation in Bourreau (Pierre)

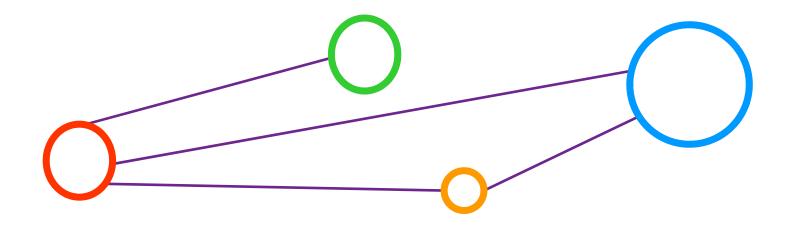
CBRAIN Portal?

- Paper writing in process not sure where exactly to publish (frontiers in neuroinformatics?)
 - E-LIFE? As another paper more on neuroscience aspects
- Next Steps
 - Finish the CBRAIN setup & testing with Containers & integrate fixes with Bourreau
 - Finish paper writing & NeuroLibre(?) → Clarify with Tristan, including analytics tools
 - Testing and validating complete pipelines with DataLad, CBRAIN, and Boutique containers



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PhD Student R. Sedona



PhD Student P. H. Einarsson







Dr. M. Goetz (now KIT)



MSc M. MSc Richerzhagen P. Glock (now other division) (now INM-1)



MSc
C. Bodenstein
(now
Soccerwatch.tv)



MSc G.S. Guðmundsson (Landsverkjun)



PhD Student Reza







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