





Analytics & Learning Laboratory

WP4 Architecture, Status and Plans Prof. Dr. – Ing. Morris Riedel

9 July 2020 | Steering Board Meeting



UNIVERSITY OF ICELAND SCHOOL OF ENGINEERING AND NATURAL SCIENCES

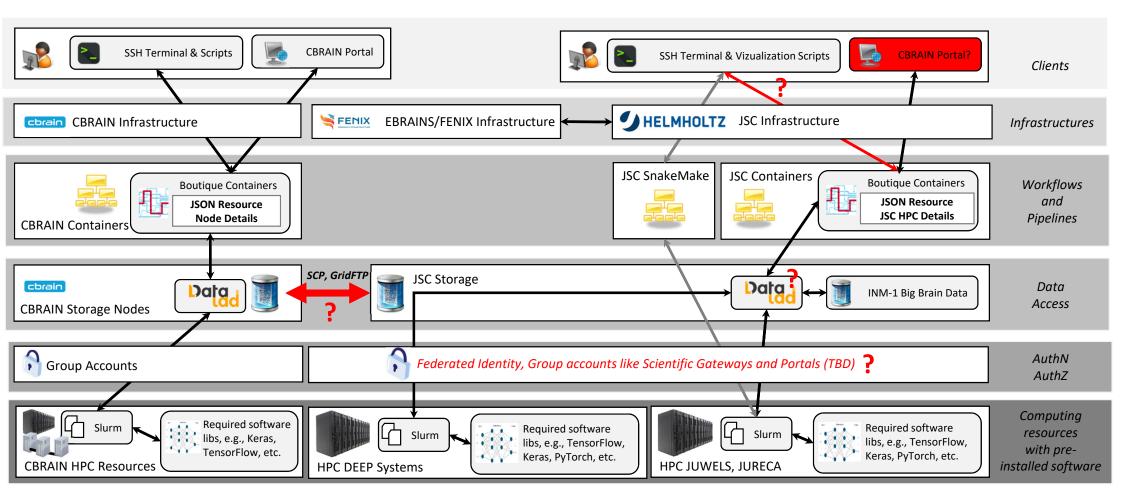
FACULTY OF INDUSTRIAL ENGINEERING, MECHANICAL ENGINEERING AND COMPUTER SCIENCE

Mitglied der Helmholtz-Gemeinschaft



Draft Architecture of Joint Infrastructure





Involved Technology Research & Next Steps

- SnakeMake
 - Workflow management system for scalable data analysis (e.g., used at Juelich these days)
- DataLad
 - Versioning system built on Git and integrates into python
- Boutiques
 - Cross-platform tool for automatic publishing, integration, and execution of command-line applications
- Next Steps
 - Pétur Helgi Einarsson hiring @Juelich/Uolceland, joining efforts of Chadi and Morris
 - PhD student already a publication in neuroscience: https://www.nature.com/articles/s41592-020-0799-7
 - Refine the draft architecture with details on protocols and data access (~Q3/2020)
 - WP4 Meeting ~start of August
 - Review by practical users of architecture: Initial installations starting afterwards from August







References



- [1] SnakeMake: https://doi.org/10.1093/bioinformatics/bts480
- [2] DataLad: <u>https://www.datalad.org/</u>
- [3] Boutiques: https://doi.org/10.1093/gigascience/giy016
- [4] Helmholtz HIBALL Project: <u>https://bigbrainproject.org/hiball.html</u>
- [5] CBRAIN: https://mcin.ca/technology/cbrain/