SecureData4Health

A secure cloud infrastructure for analysis and sharing of genomic and health data

Nathalie Aerens, SD4H manager
Nathalie.aerens@mcgill.ca
1. Acquire & deploy infrastructure QC node + extend Ontario node
2. Enable the first secure inter-provincial digital platform for health data in Canada between QC and Ontario nodes
3. Extend; such as with the Secure Health & Genomics Data Platform in British Columbia, via the GA4GH protocols.
SD4H...what is it for now?

1. inter-nodes agreement involving 2 ON & 4 QC institutions (IIA)
2. shared CFI acquisition and set up budget
3. inter-nodes steering committee
And also...

- Provincial infrastructures operated separately with Alliance partners
- Privacy and security frameworks
Layer 1: Lead/ responsibility = CQ

Layer 2: lead/responsibility = SD4H gov structure

Layer 3: lead/responsibility = final user

QC node focus
Ex 1: offer a flexible data sharing platform fulfilling requests like:
- I want my data to be secure (Multi-Factor Authentication, Audit Logs, Firewall)
- I want my data to be available from the internet (or not!)
- I want to use existing collaborator identity to share data (University accounts, Google accounts, etc.)
- I want data transfer to be fast.

Ex 2: offer a killer feature: full SSD shared file system that can sustain HPC like loads. High throughput and low latency. This high-performance system was needed to run the C3G Genpipes analysis tools...
Thank you!

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Nathalie.aerens@mcgill.ca
https://www.sd4health.ca/