HELMHOLTZ

RESEARCH FOR
GRAND CHALLENGES

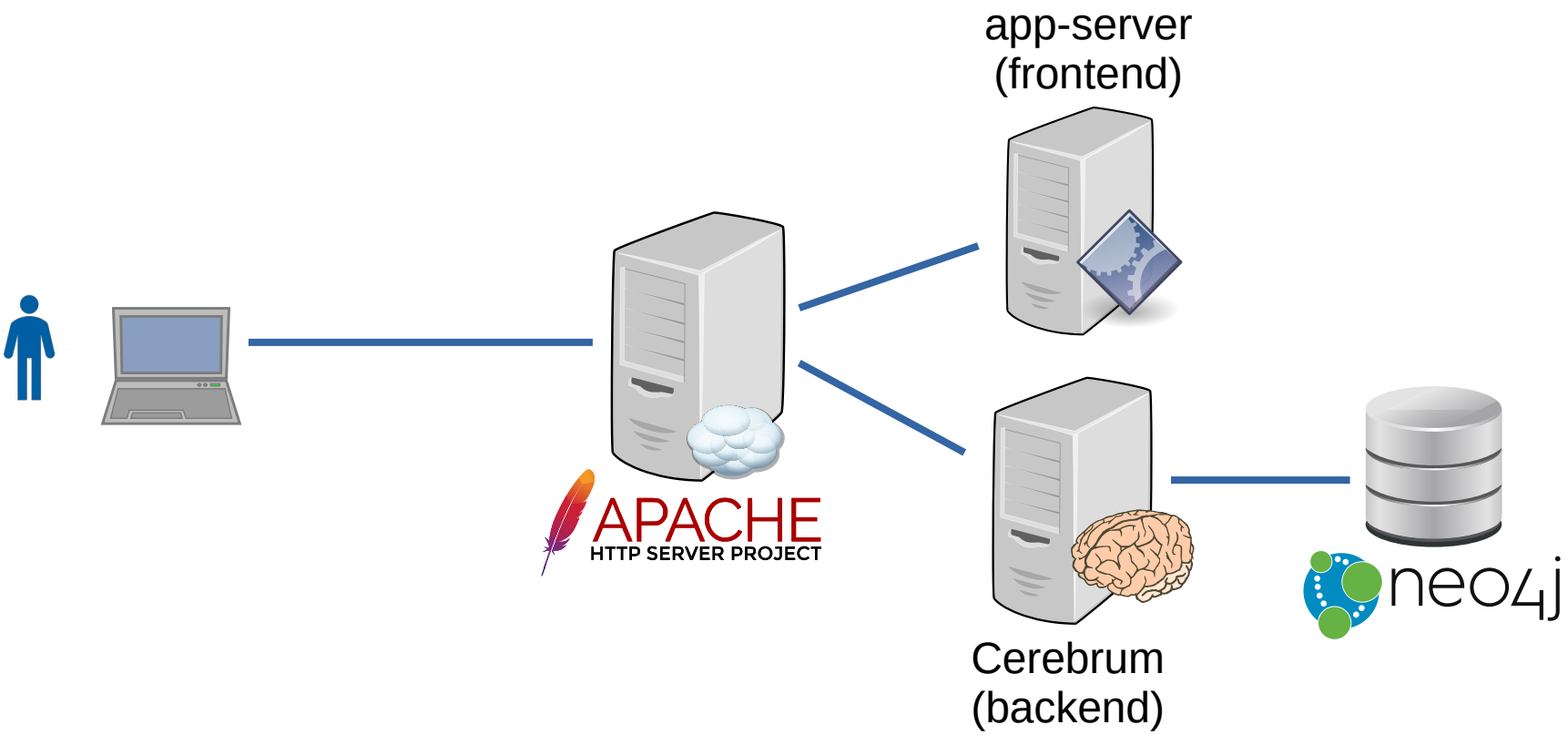
HIFIS | HELMHOLTZ FEDERATED IT SERVICES

Roadmap of the Technical Platform

Paul Millar

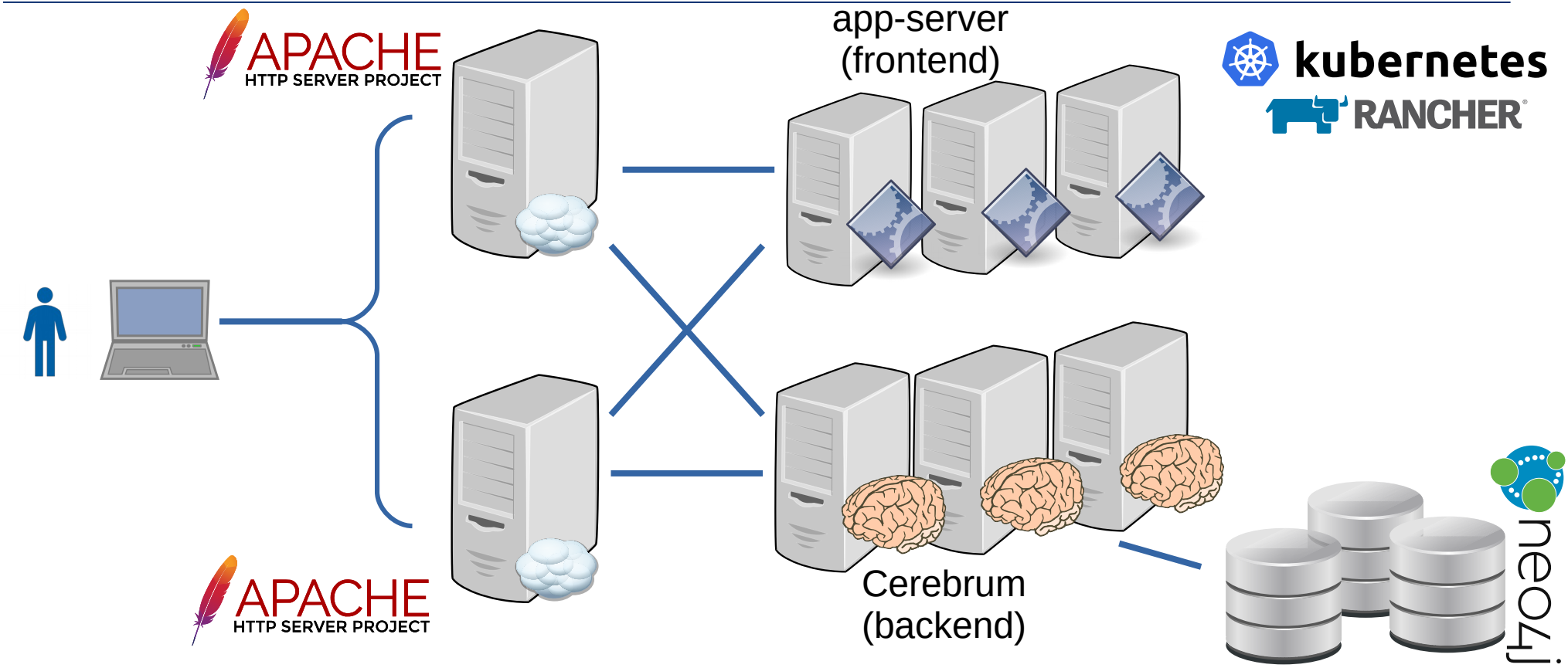
Technical Platform

Architecture



Technical Platform

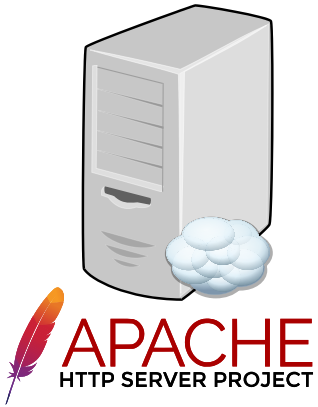
Architecture: High Availability



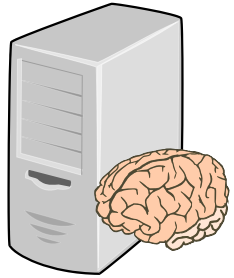
Service catalogue (demo)

Technical Platform

Service catalogue: demo



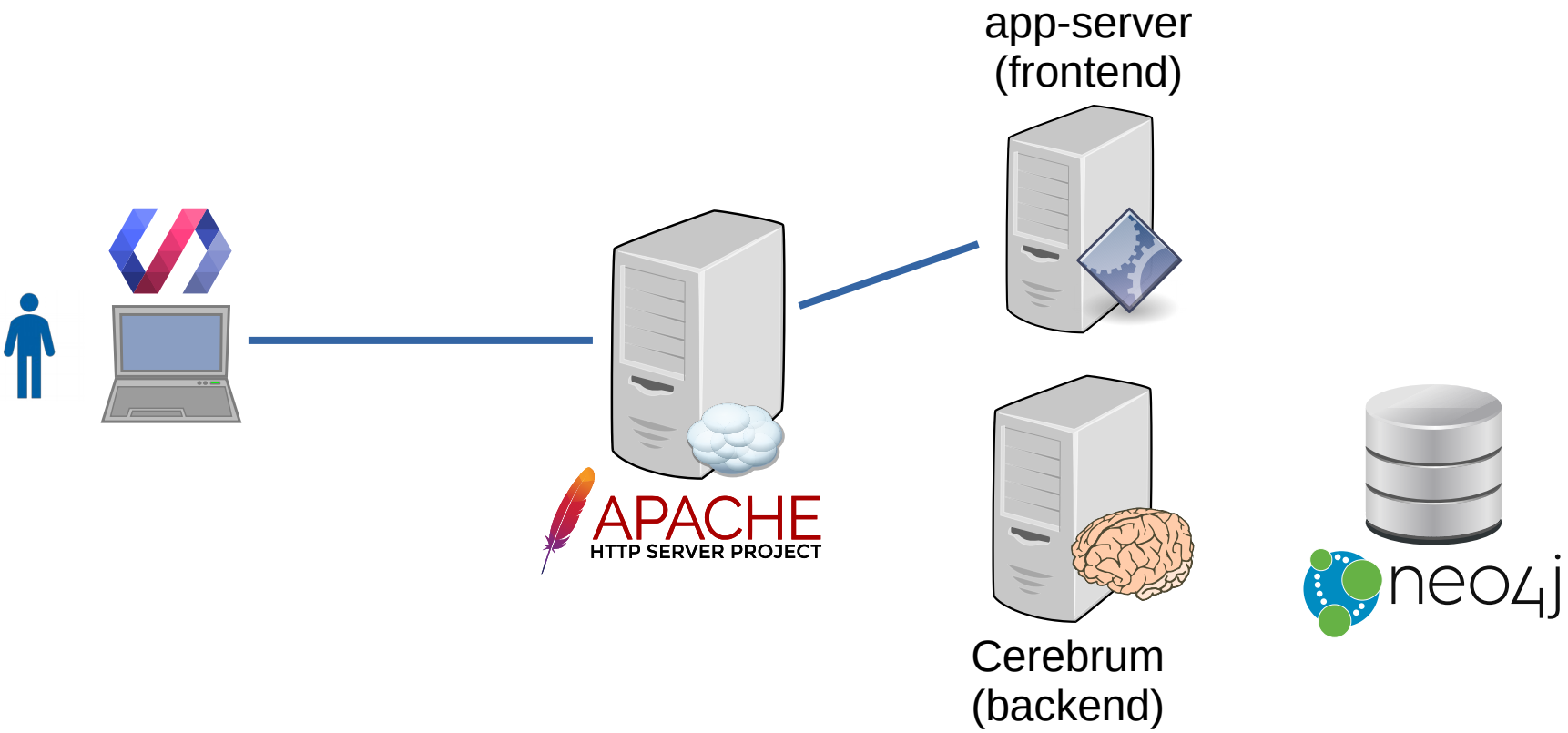
app-server
(frontend)



Cerebrum
(backend)

Technical Platform

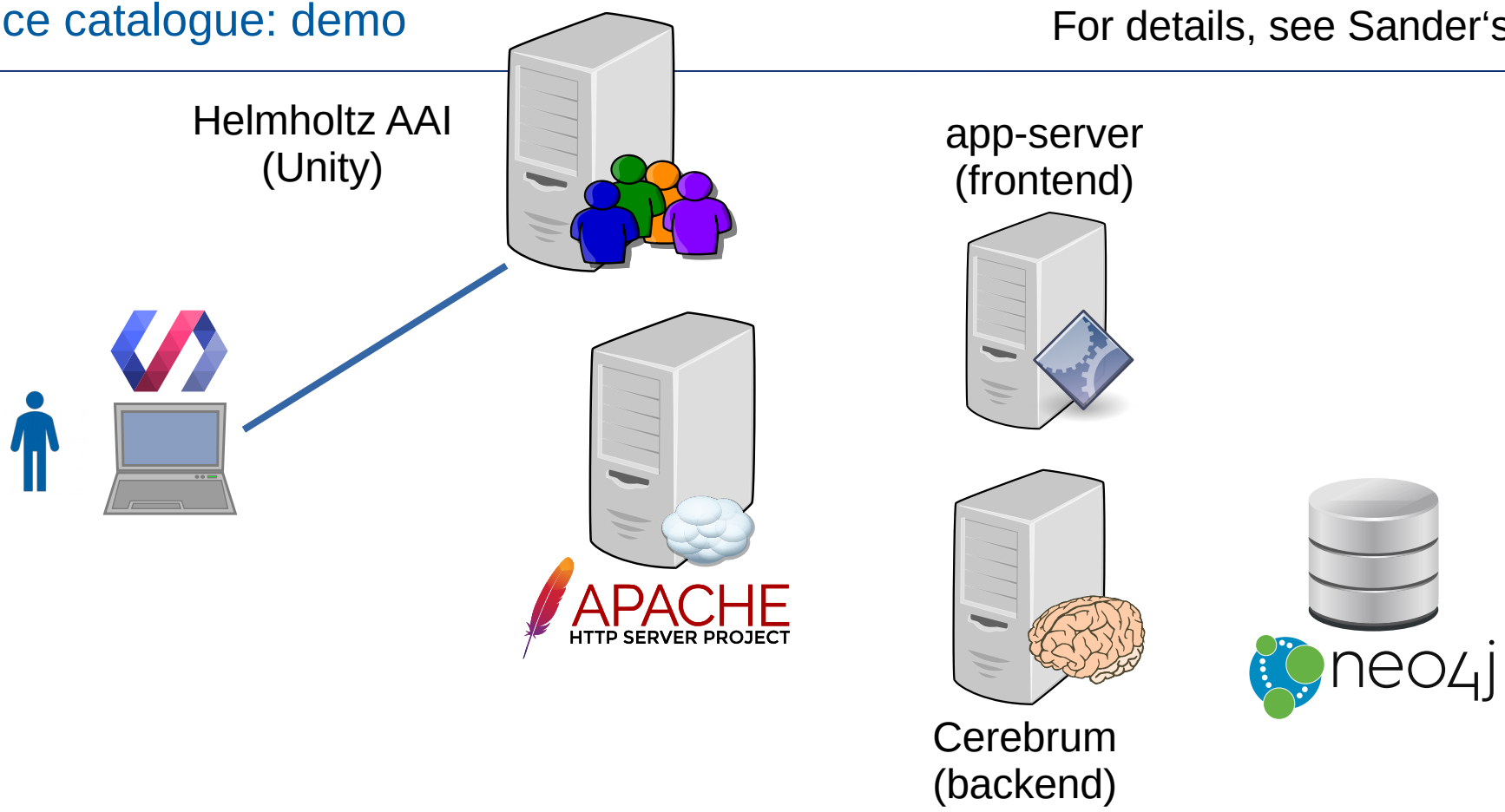
Service catalogue: demo



Technical Platform

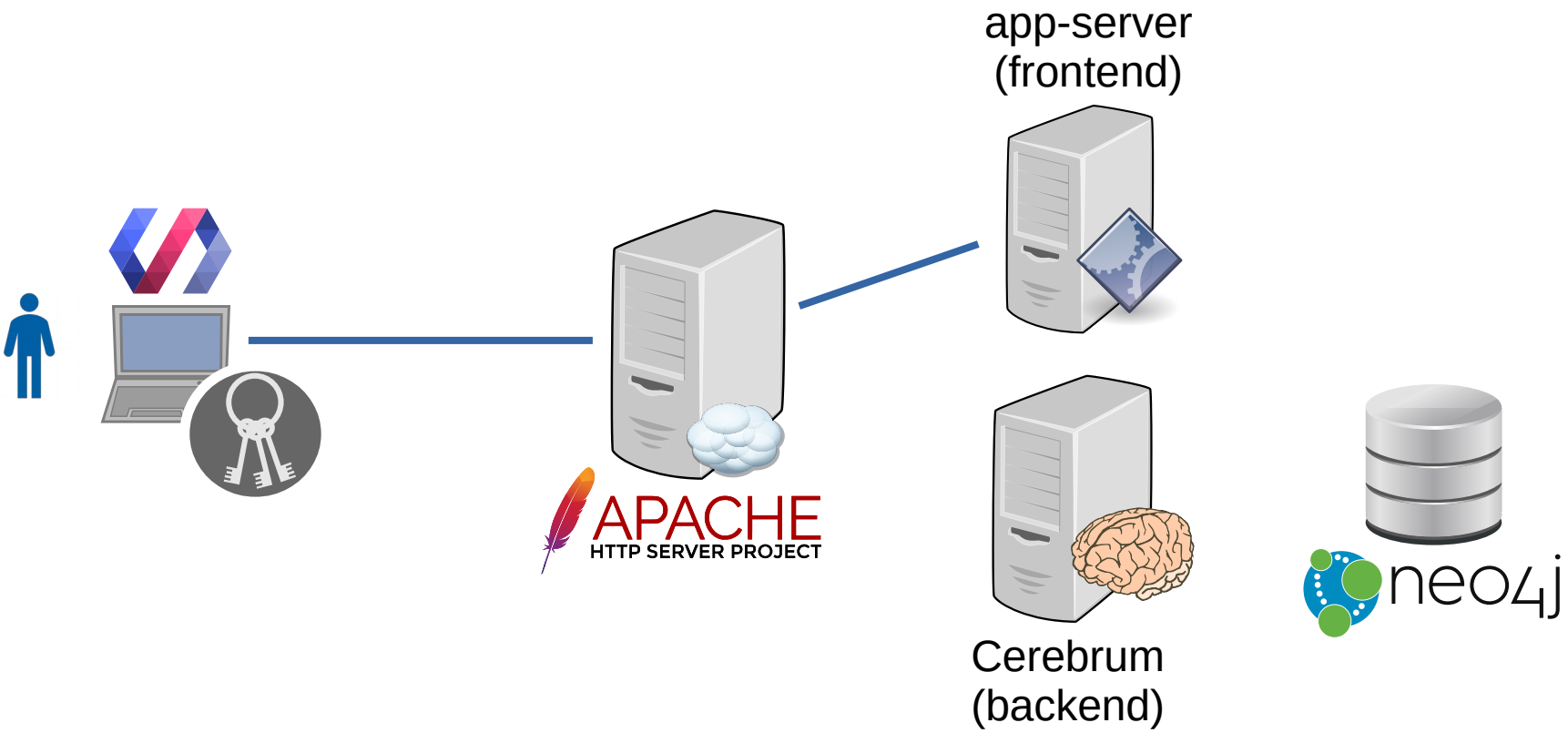
Service catalogue: demo

For details, see Sander‘s talk.



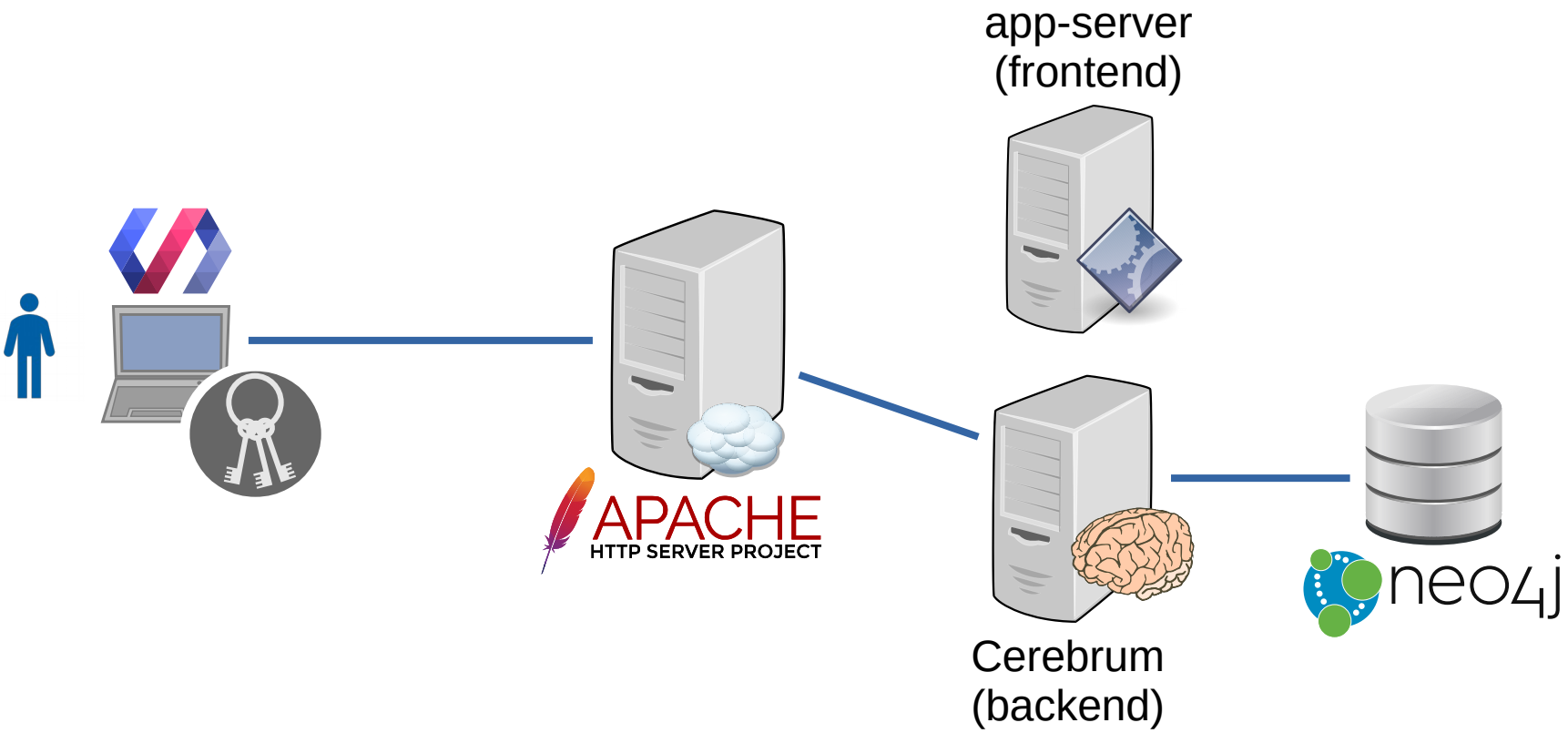
Technical Platform

Service catalogue: demo



Technical Platform

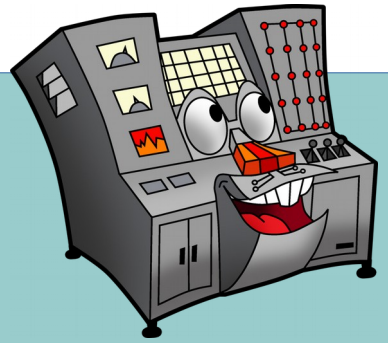
Service catalogue: demo



Enrolment

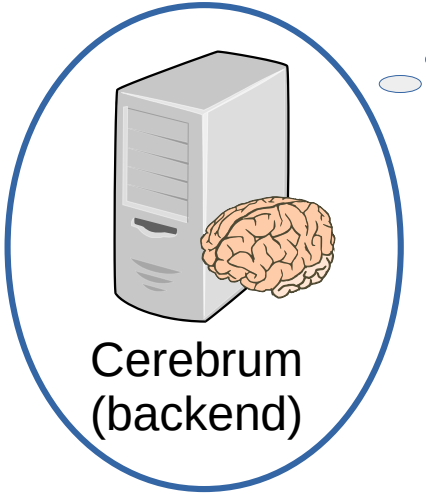
Technical Platform

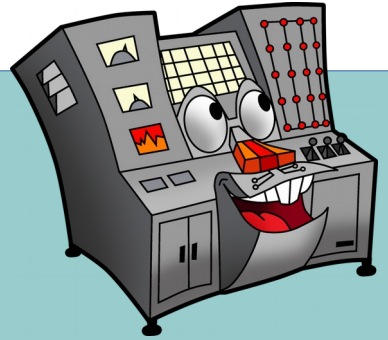
Enrolment



Technical Platform

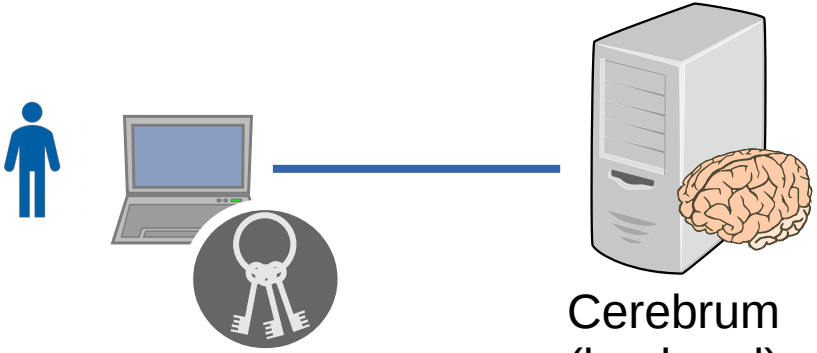
Enrolment

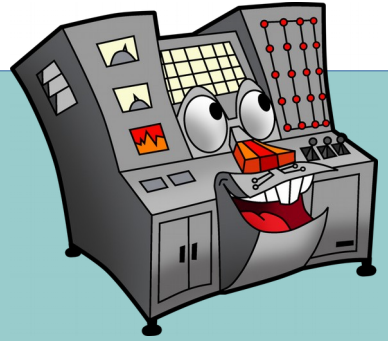




Technical Platform

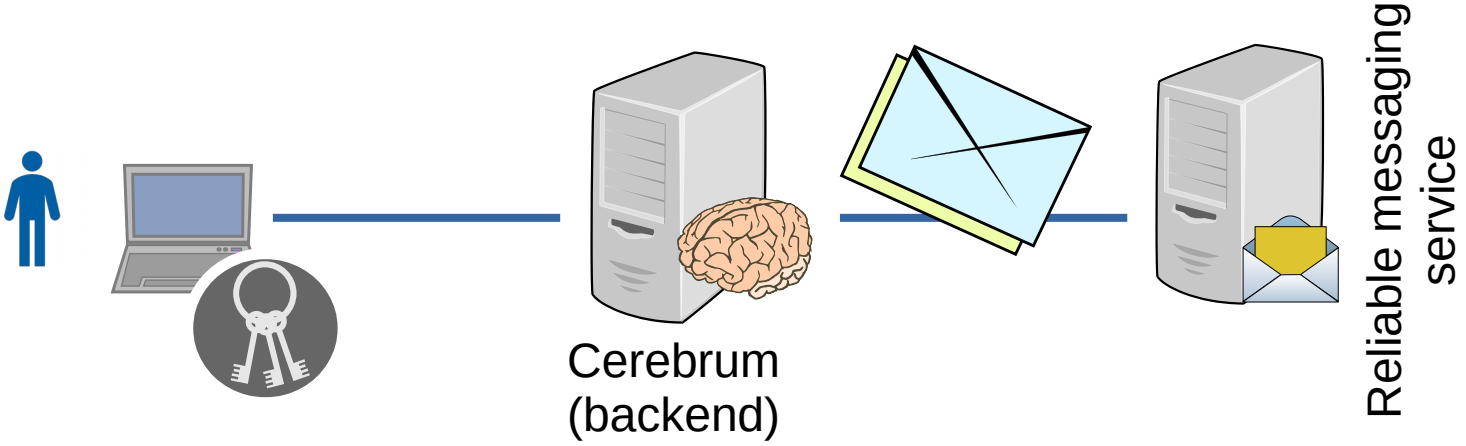
Enrolment

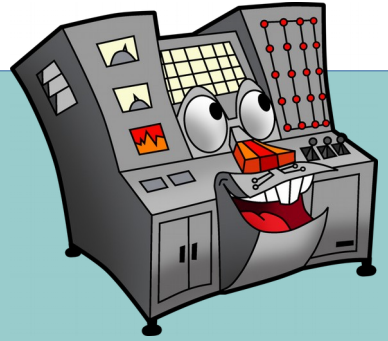




Technical Platform

Enrolment





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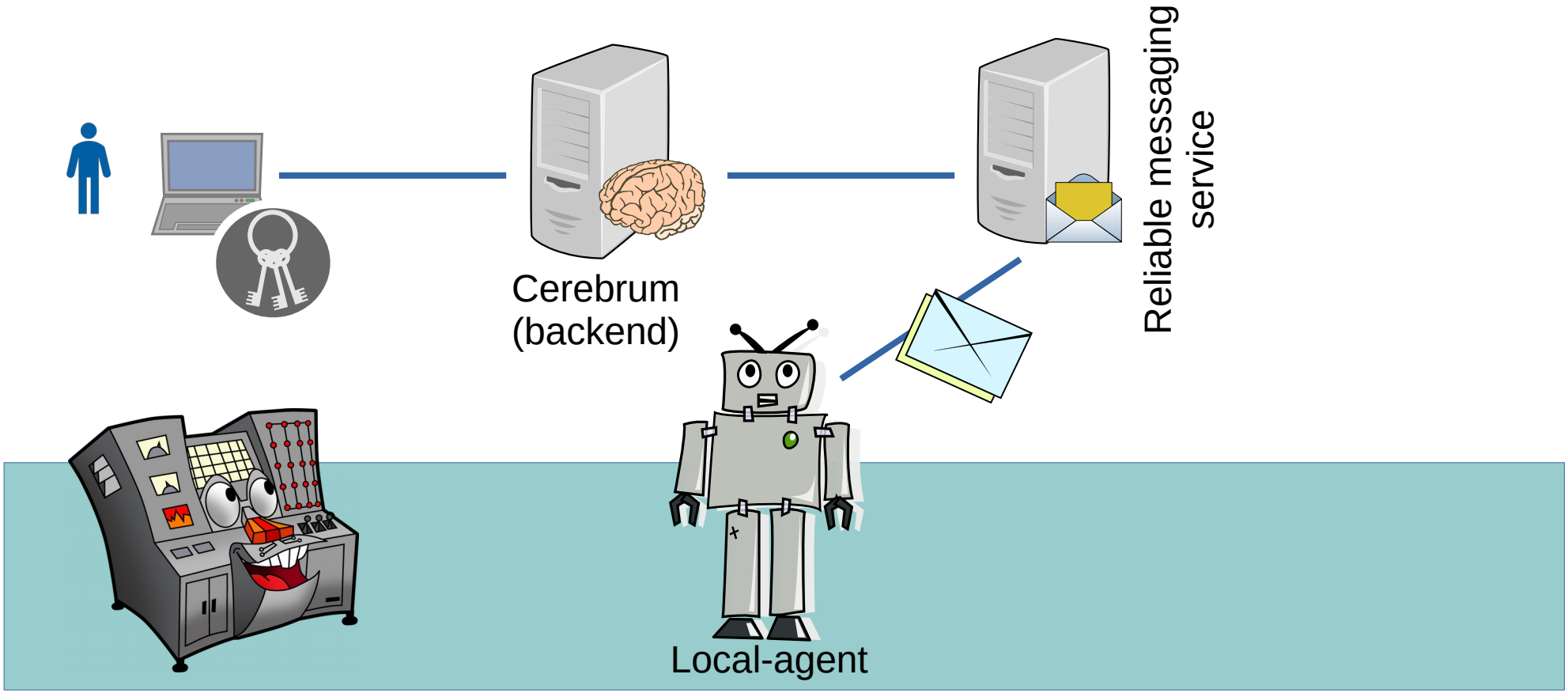
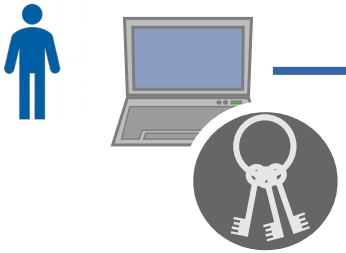
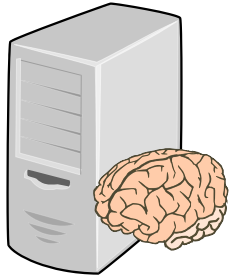
Enrolment



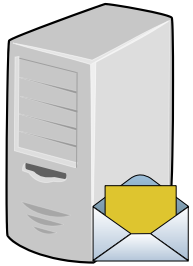
Technical Platform

Enrolment

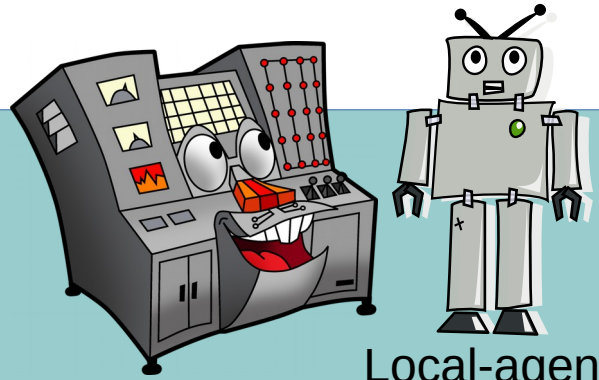




Cerebrum
(backend)



Reliable messaging
service



Local-agent

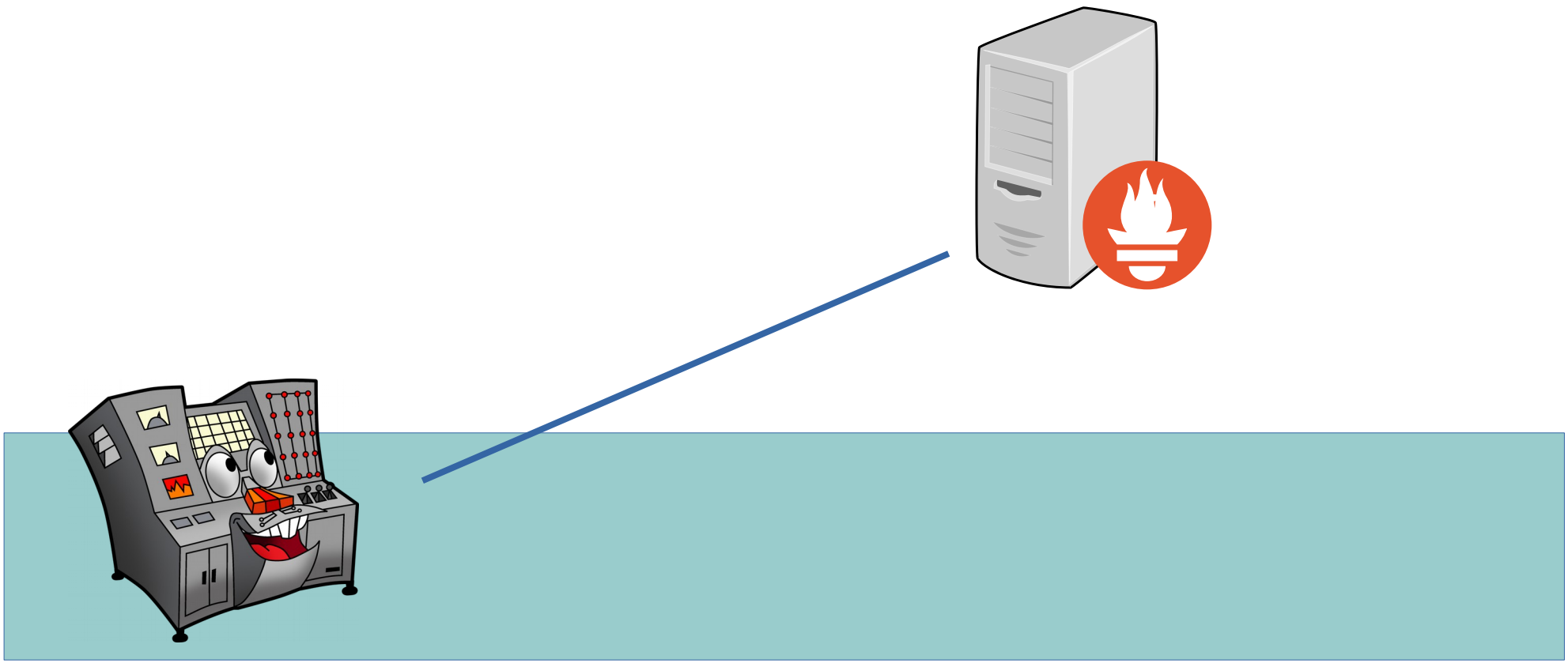
Technical Platform

Enrolment

Monitoring / accounting

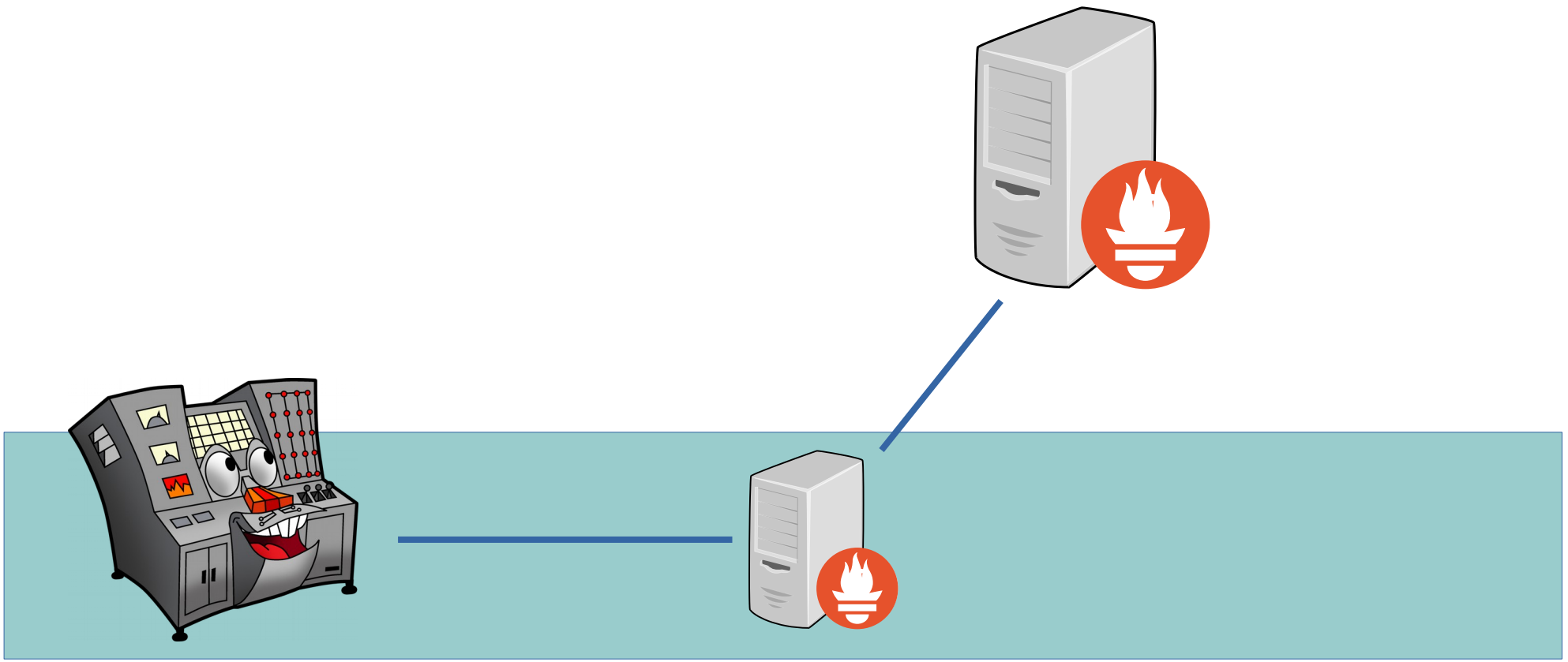
Technical Platform

Monitoring / accounting



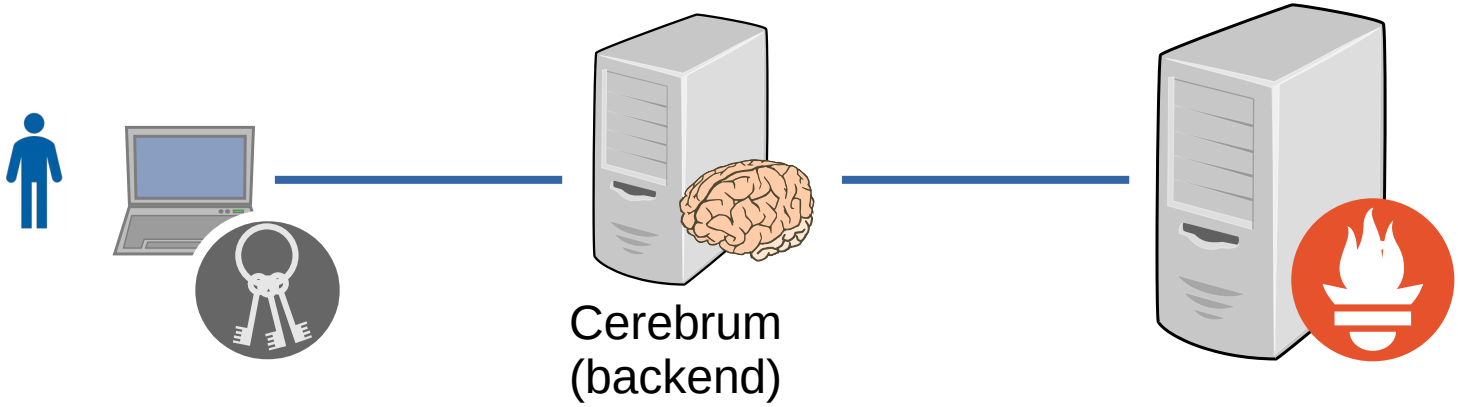
Technical Platform

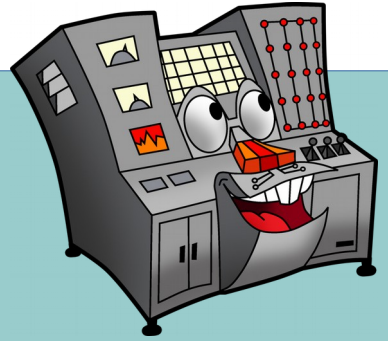
Monitoring / accounting



Technical Platform

Monitoring / accounting





Summary

Technical Platform

Summary

- We are on-track to have a beta verson („MVP“) live this year.
  - Basic metadata
  - Authentication
- Initial design work already started on next steps:
  - Enrolment (local-agent)
  - Monitoring (prometheus)

Thanks for listening!

Backup slides

Technical Platform

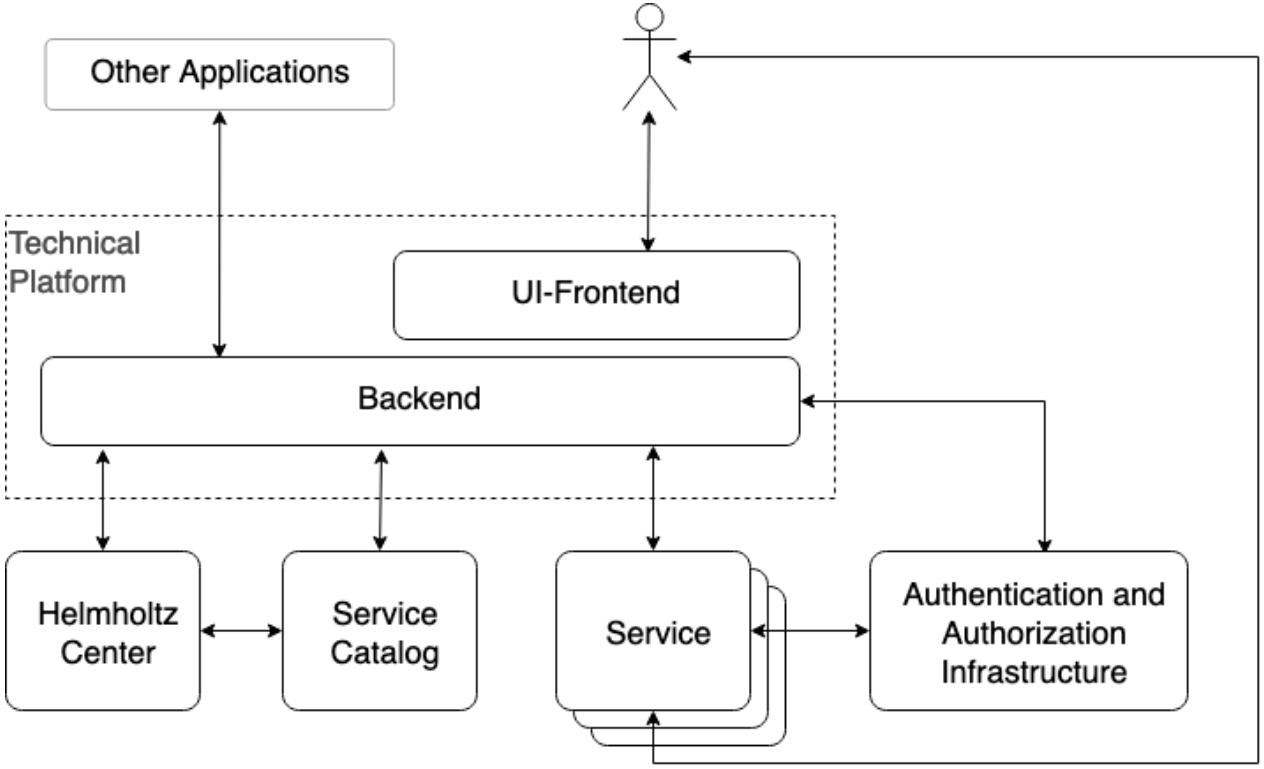
Why are we here?

Function	Benefit for the scientist	Benefit for the Helmholtz centres
Service catalogue	Find the resources they need quickly.	Maximise use of their resources.
User enrolment	Get access to the resources as quickly as possible.	Lower cost of providing service.
Service monitoring and usage accounting	Better overview, resulting in fewer surprises.	Reduced support effort.

Technical Platform

Architecture

https://www.hifis.net/doc/technical-platform/TP_Whitepaper/



Technical Platform

Architecture

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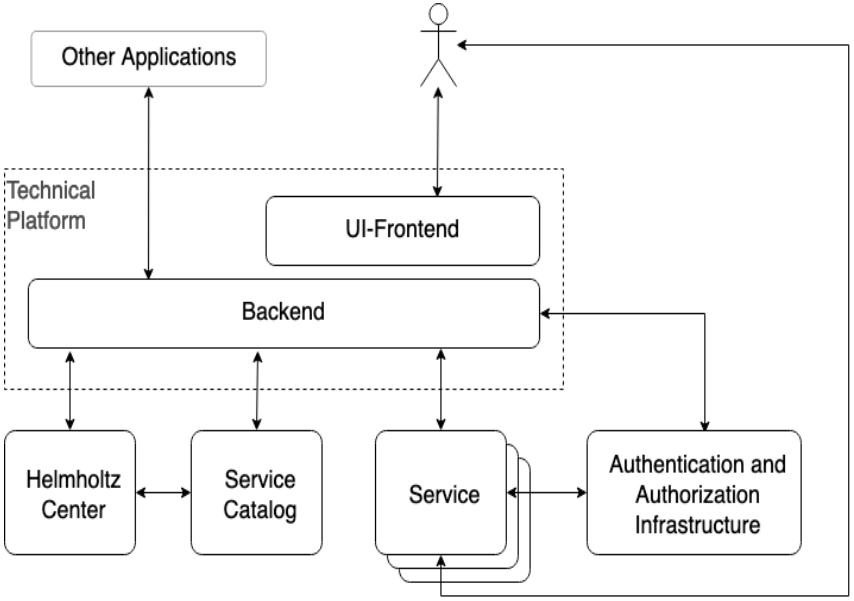

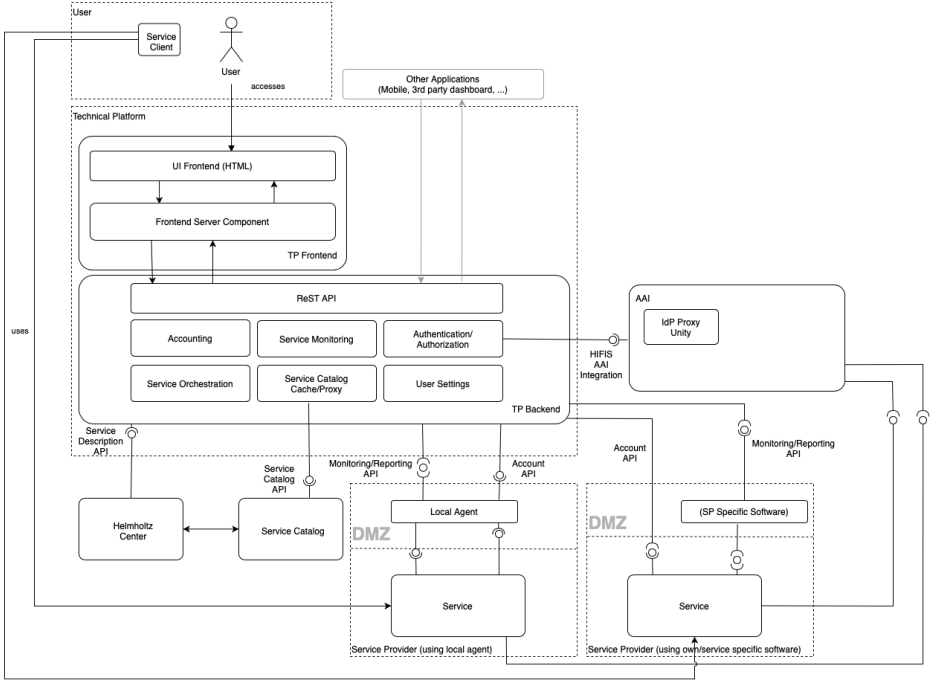

Technical Platform

Architecture
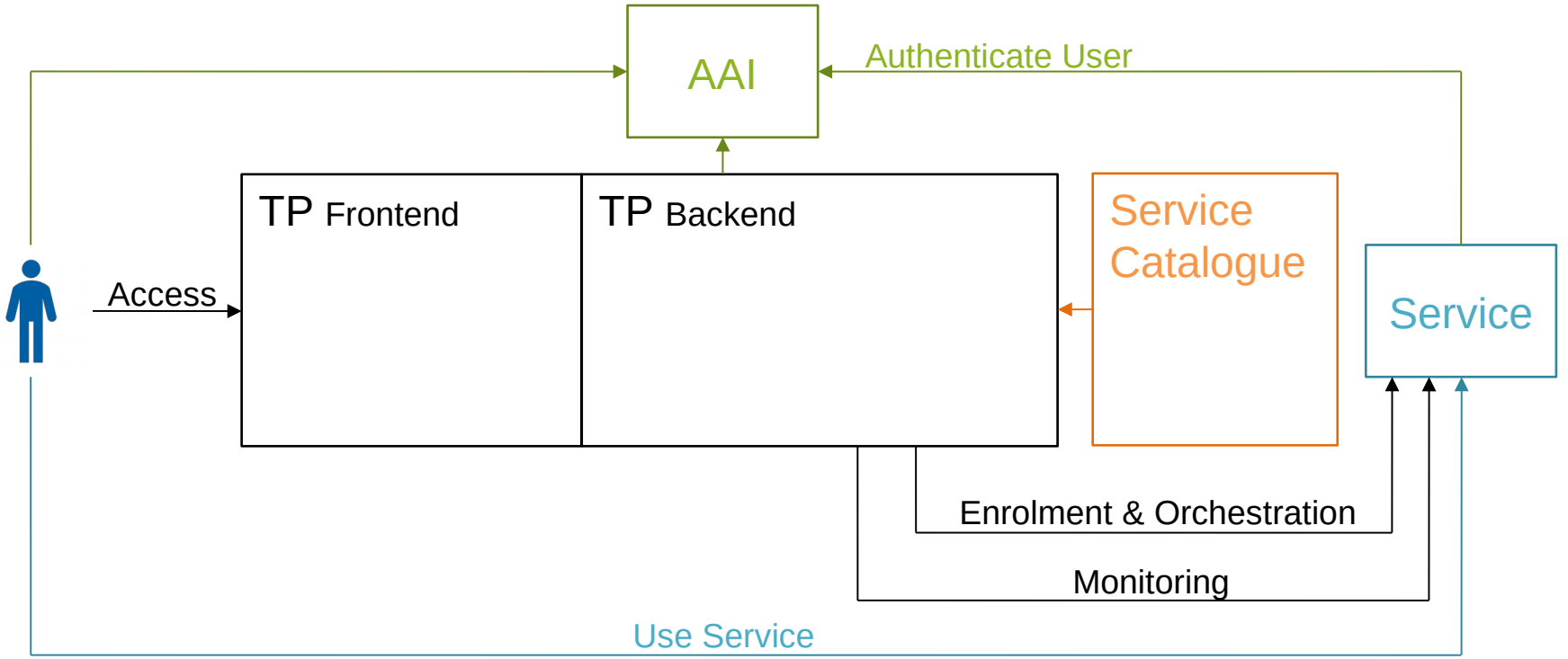
Diagram from Andreas Klotz