

SODA Use-case and PoC for Yahoo! JAPAN

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Yahoo! JAPAN Introduction



Yahoo! JAPAN is one of the largest internet company in Japan

Our 100+ services earn 78billion PV per month

Infrastructure

- Multiple DCs (2DC in the US)
- 100,000 Physical Servers
200,000+ Virtual Servers
- 60PB+ Storage
- 200+ OpenStack Clusters



openstack™



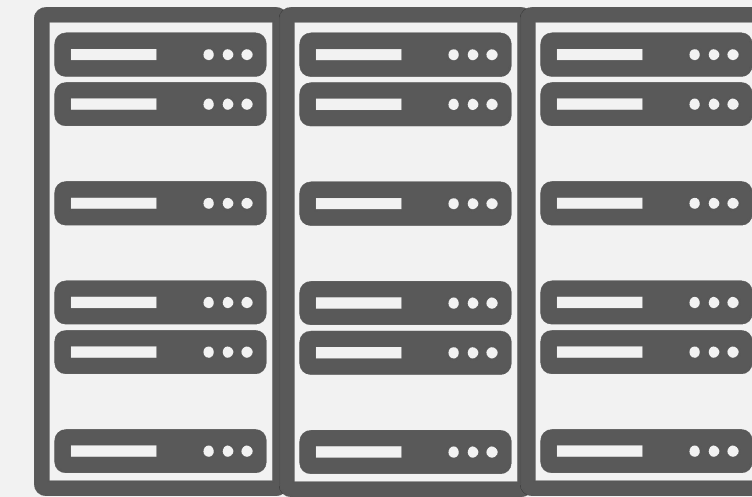
kubernetes



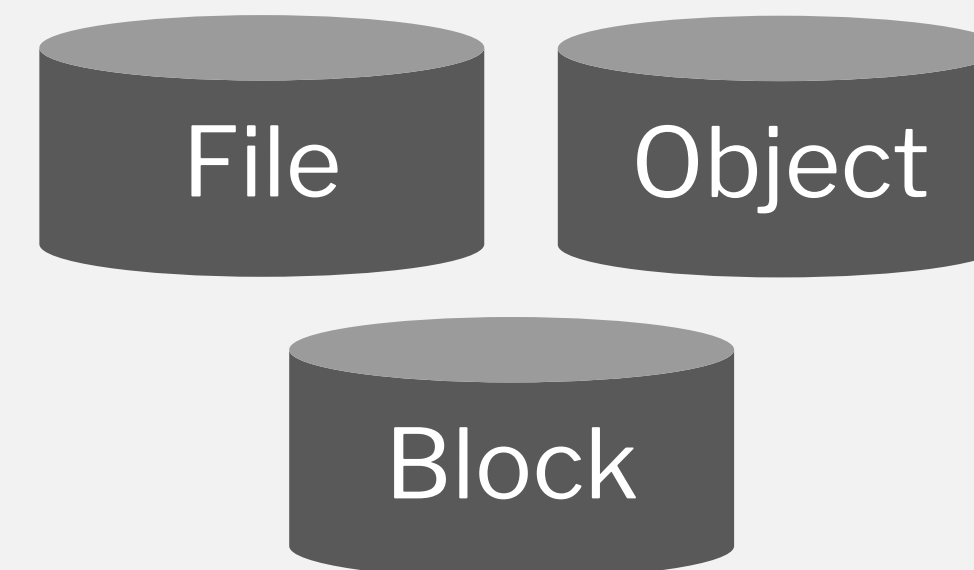
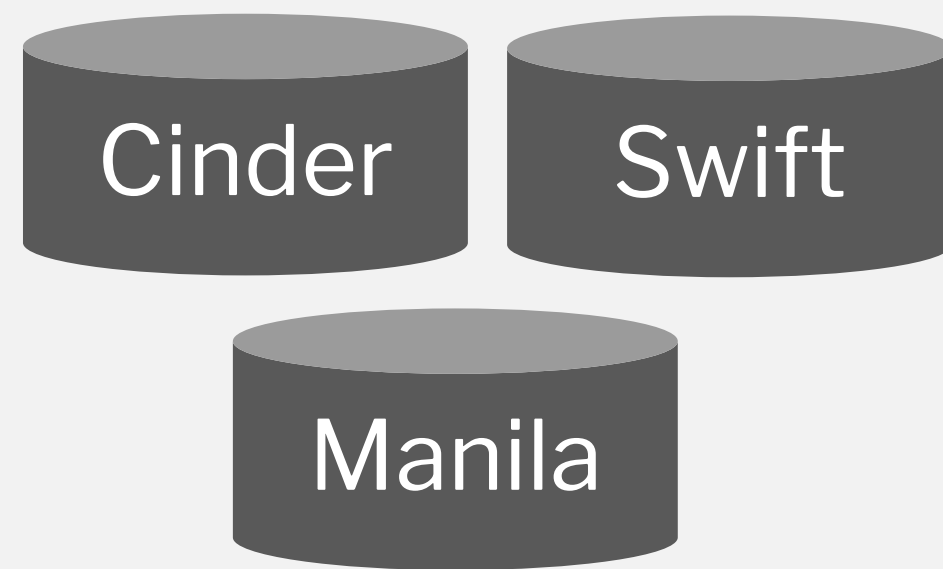
Storage Complexity



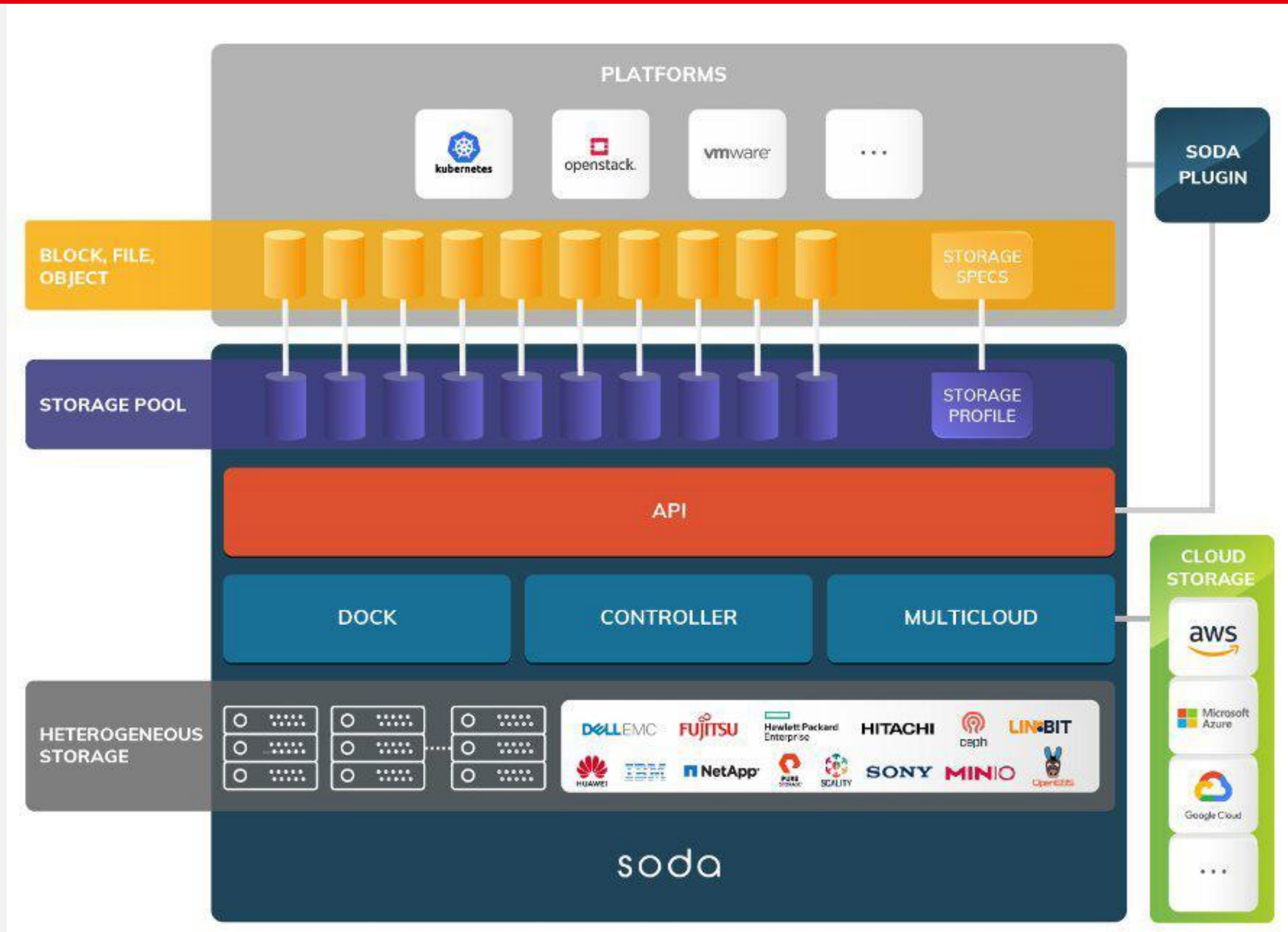
kubernetes



Other System

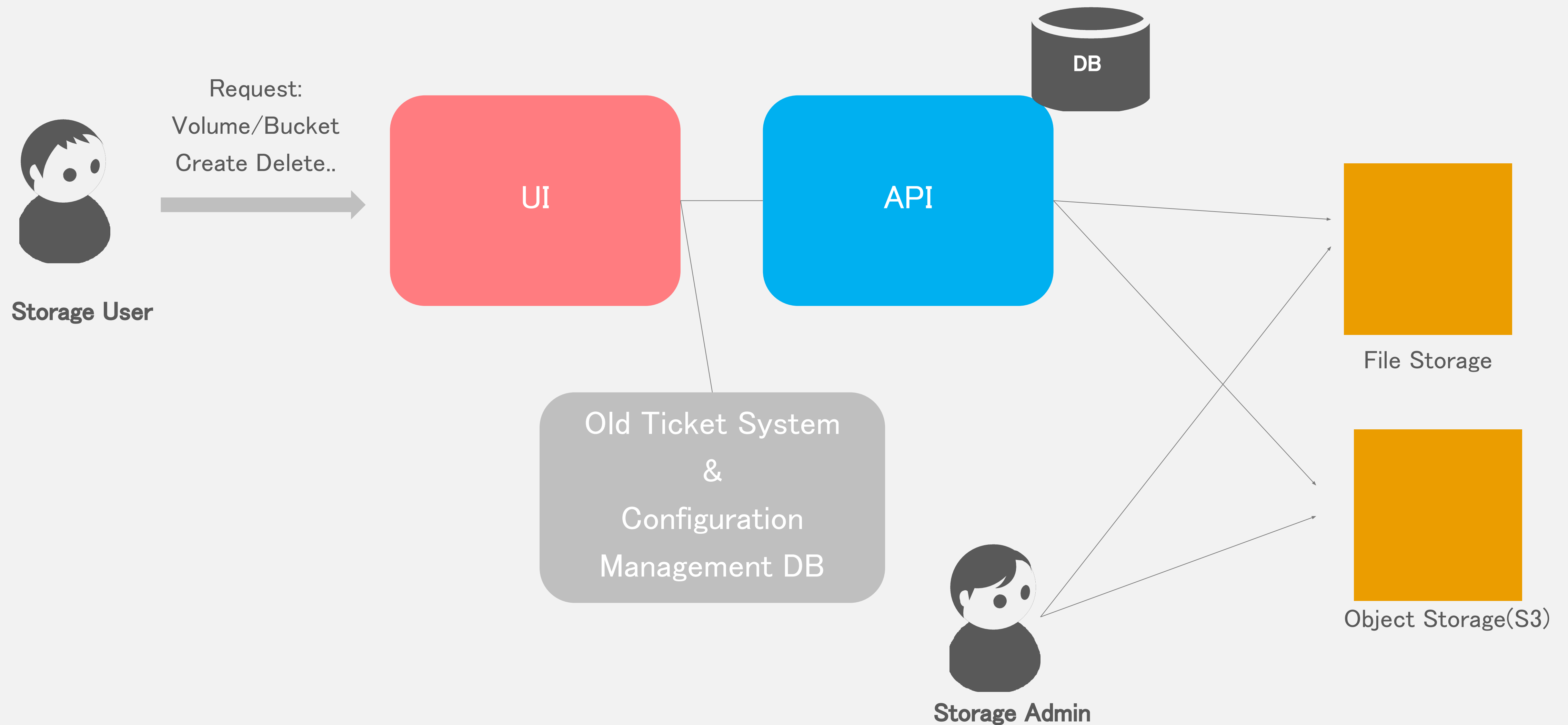


Why We Join SODA



Heterogeneous Storage Backends with Centralized API

Use Case: Storage Ticketing System



PoC with SODA Faroe Release

- Focus on Fileshare Driver

- We tested Block(LVM, Ceph, Huawei Dorado, Nimble) with past SODA version. It works.
- NetApp Fileshare Driver is very important for us 🙏

- Test Items

- Volume create/delete
- Snapshot create/delete
- ACL (exports policy)



Results of PoC

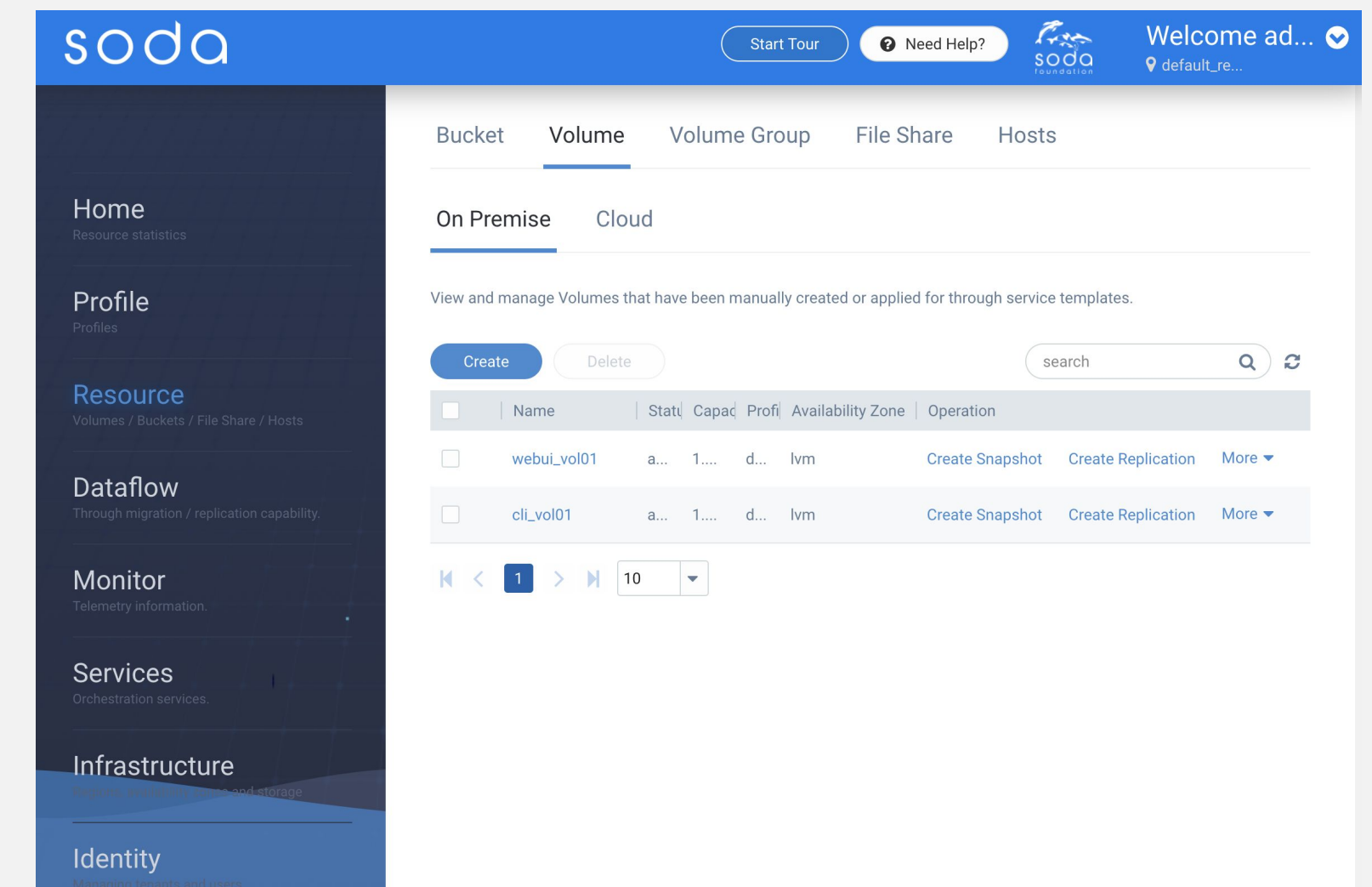
- It worked!
 - NetApp File Share Driver hasn't been supported in Faroe Release. But SODA team developed it for this PoC rapidly! 🙏🙏🙏

- Test Items

- Volume create/delete 👍
- Snapshot create/delete 👍
- ACL (exports policy) 🛠 under development

- Future Requests

- Support SVM management (for Multi-tenant use-case)



Conclusions

- **We want to make storage management simpler**
- **We tested SODA for our use-case and feedbacked to community**
- **We expect more vendors and users to join and the SODA community makes progress!**

