Rubin Observatory

SQuaRE S20B and next steps

DMLT f2f | 2020-05-13

"Deployment Of The Week"
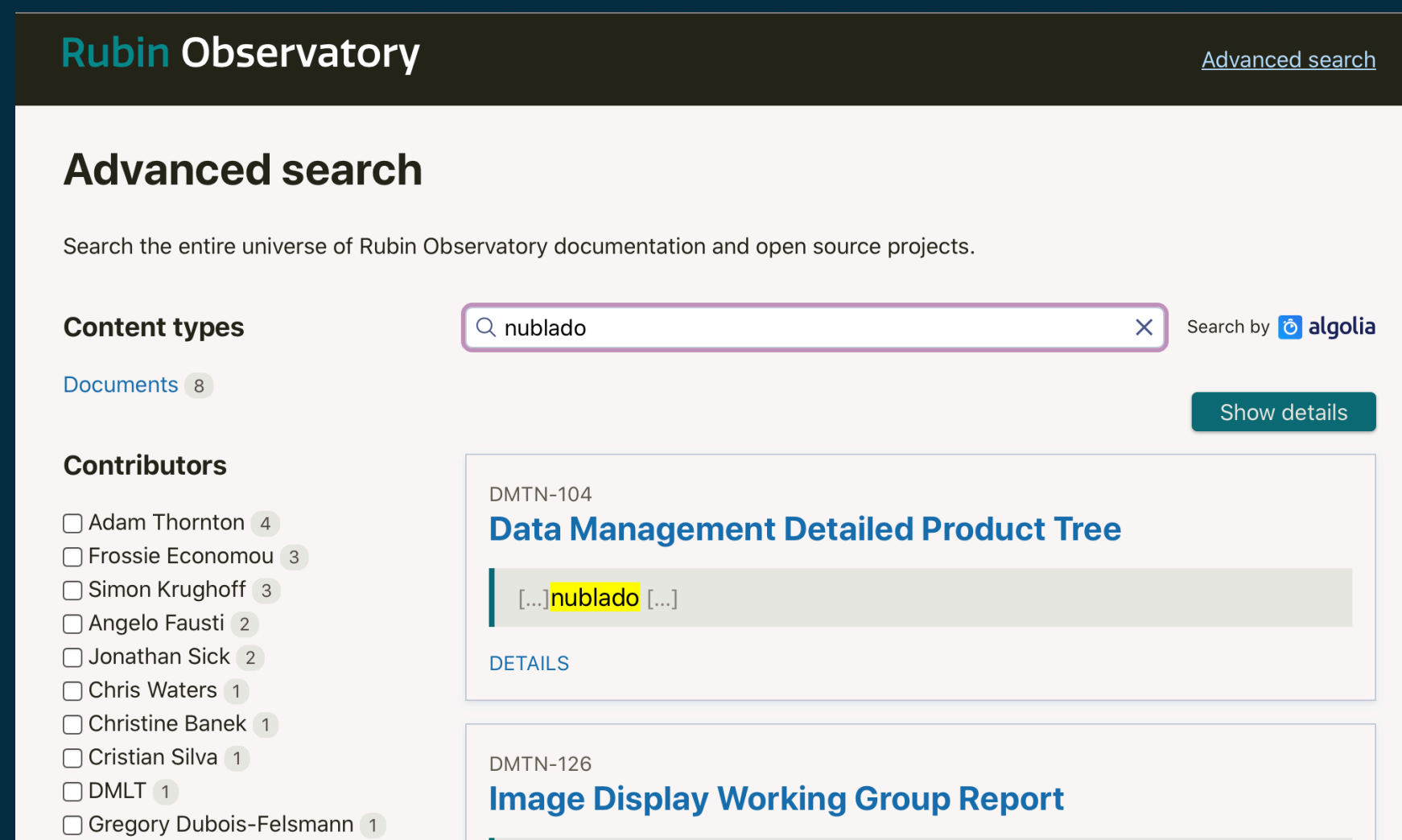
	Argo-CD	LSP	Auth	EFD/Kafka	Everything Else	Inrastructure
Stable	✅	Nublado, VO, SUI, Monkeys	✅	✅		NCSA
Int	✅	Nublado, VO, SUI, Monkeys	✅	✅	Jenkins (+ cloud)	NCSA
Summit	✅	Nublado, Firefly		✅		Chile IT
Base	✅	Nublado, Firefly	✅	✅		Chile IT
NCSA Teststand	✅	Nublado, Firefly	✅	✅		NCSA
Tucson Teststand	✅	Nublado, Firefly	In progress	✅		Tucson IT / us / TBD
GCP	✅	Nublado, SUI	✅	✅	Roundtable (inc. LTD, Vault, bots)	Google
more				Telescope, INREA		

U.S. DEPARTMENT OF **ENERGY** | Office of Science

Doc System and Developer Services

Shipping In S20B

- Proof-of-concept sprint for search: search-demo.lsst.io

- Integrated LTD with Roundtable's SQuaRE Events

- Refactored our identity look up service (ghslacker is now checkerboard, Jenkins re-pointing pending)

F20A Next Steps

- Search 🎉 (increase our tier, release with LSST The Docs holdings, document how to supply other holdings)

- SQuaSH badly needs a maintenance sprint

- Consider lsst.verify support ICW Pipelines/ Science

- Doxygen LTD integration

- Strategize with KT on whether/how much we can move off in-house Jenkins to hosted CIaaS

Shipping In S20B

- Proof of concept replication/aggregation cluster based on Confluent replicator & Faust

- Performance Improvements

- Summit shutdown support

- Base and NTS deployments

- Helped TS&S with ArgoCD

- efd_client helper module for python/nb

- Training

F20A Next Steps

- Switch to open source replication connector and continue replication/aggregation work (first target: parquet)

- Kafka security (use strimzi)

- Investigate alternative to InfluxDB annotations and other Influx 2.0 related transition issues

Auth and Security
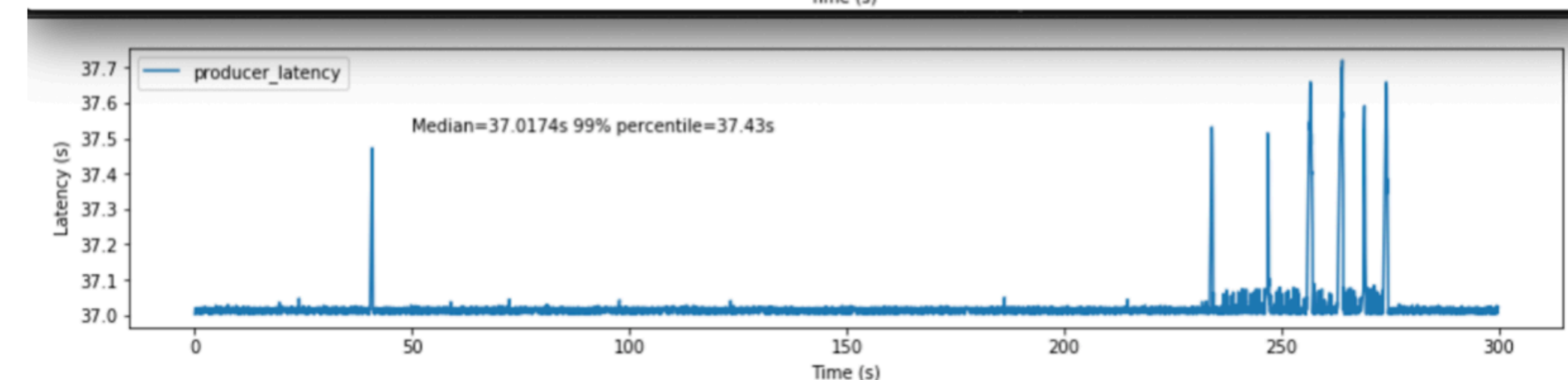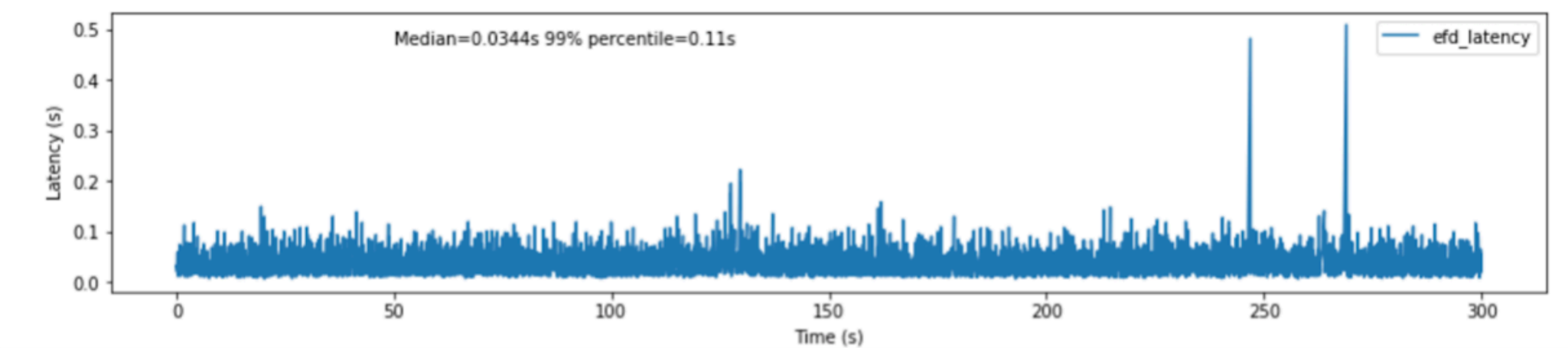
Shipping In S20B

- Completed transition of Science Platform A&A service support to SQuaRE

- Refactored to use aiohttp etc and to allow us to use it as the auth service for all deployments (including Google nublado and EFD): gafaelfawr.lsst.io

- Vault deployment improvements

- Drafted a proposal for future direction of Science Platform A&A given USDF, summit and other developments: sqr-039.lsst.io

F20A Next Steps

- Iterate on SQR-039 with Architecture and plan and prioritize work

- Contribute to Data Security discussions

Science Platform
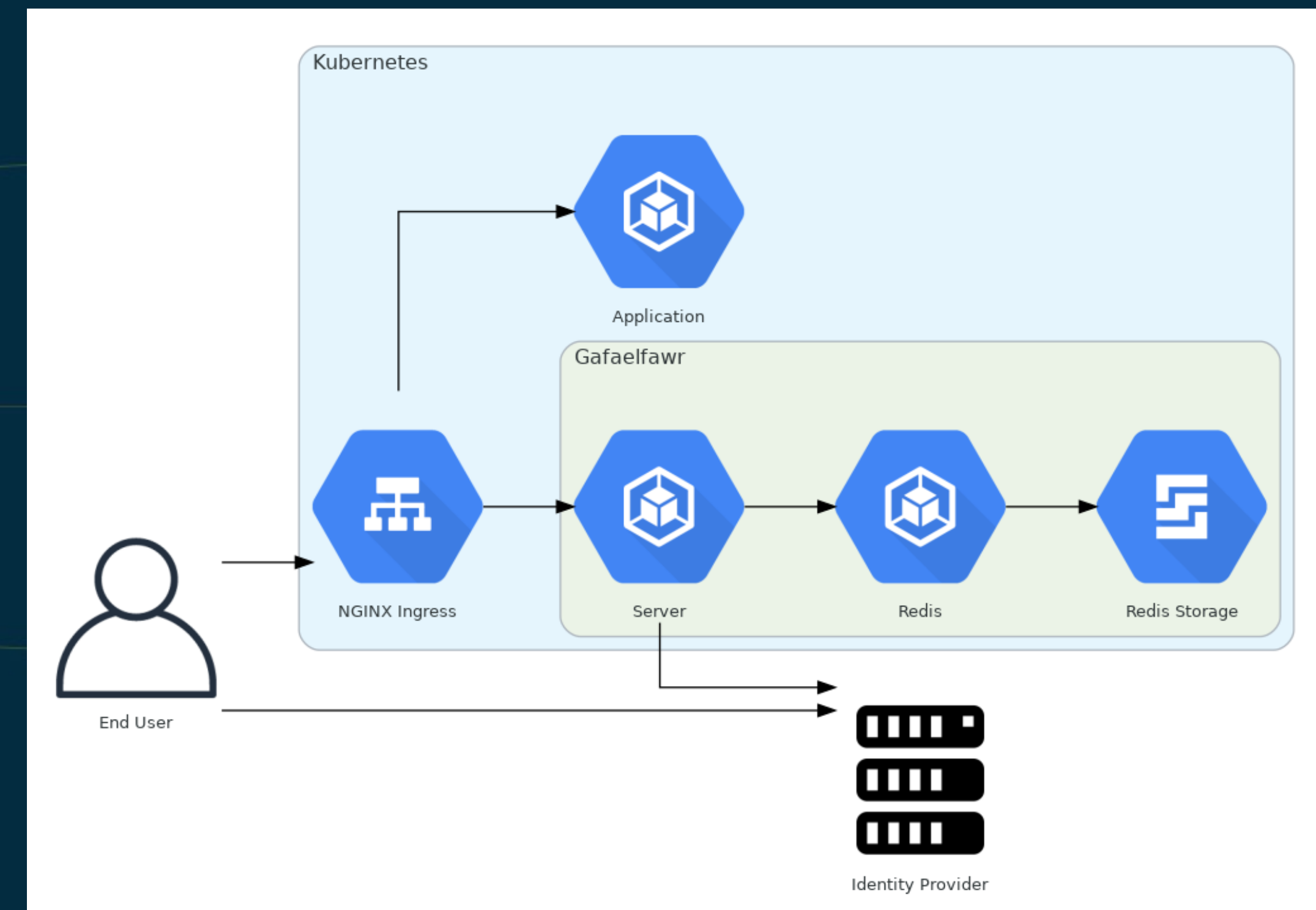
Shipping In S20B

- Testing framework prototype, first test case was spawing non-interactive authed sessions in nublado (bad news: it hit the nublado auth bug; good news, that allowed us to track down the auth bug)

- SessionDB off sqlite onto an RDB

- Investigated round-tripping of schemas TAP<->Felis

- Base & NTS deployments for Nublado

F20A Next Steps

- Organize some scale-testing

- Kick the WebDav tires with GPDF & RRA

- Work with GPDF/POs to draw up test plans for individual VO services

- Nublado firefighting mode squashing and user niggles sprint

- Draft management proposal for SUI

- Transition SODA from SLAC

- RFC to move the ConsolidatedDB to Postgres