

SQuaRE F17 forward look

Frossie Economou • frossie@lsst.org



Resources



Limited person-power in F17A

avail FTE full 50-75% 25-50% 0-10%

F17A	F17B
AT	AT
AF	AF
JMP	JMP
JS	JS
JH	JH
MWV	MWV
SK	SK
FE	L#FE

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TECHNICAL GOALS

Primary deliverables (excluding ongoing services)

- SciPlatNB: TBD (see next slide)
- Documentation: JS to Pipelines for User Docs ramp-up
- Dev Infrastructure: Blue Ocean / CI revamp
 - Improve user experience 💩
 - Beat down release engineering load (stretch)
 - Move non-time-critical verification jobs to Nebula
- SQuaSH: Evaluate front end in light of SciPlatNB / SciPlatPortal
- Verification report alpha (characterisation)
- When we get activator/supertask MVP we will assess a practical first deliverable at the time

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DMLT / DECISION / INTERFACE ISSUES

If we don't deal with these soon they will become blockers or lead to

duplicating work 🚱

SciPlatNB:

SCIPLATNB (SQR-018)



TIMEBOXED EXERCISE RESULTS IN USABLE & SERVICE

- jupyterlabdemo.lsst.codes (frequently redeployed with no notice) + dev sandboxes
- A Dockerfile for installing Hub+Lab components on CI-built LSST stack container and exposing the stack kernel to Jupyter.
- A Kubernetes configuration to deploy this service on the GKE cluster.
- JupyterHub spawning Jupyterlabs in individual user pods (for scaling)
- OAuth to this service via SQuaRE's Github "shim" authentication
- Persistent Unix uid/gid mapping for users using Github as a shim
- Small persistent storage via an NFS pod to allow alpha-testers to keep nbs
- Multiple choice of containers to users (eg. with different versions of the stack).
- Basic usability-friendly version-control workflow (want to upstream)

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SciPlatNB:

- Agree design at CoDR-level (architecture & deployment)
- Work breakdown & T/CAM assignment
- Timeline for beta (developer-oriented) service well before commissioning-ready service

Shims:

- Currently shim almost all internal interfaces (auth, databases, APIs, storage, infrastructure, logging service, workflow, deployment/configuration, provenance etc). We are not blocked, but we can't leave dropping all shims to the last minute.
- DB was first on my list but ??
- Is this a DM integration activity or a SQuaRE deploy activity

