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# APEL Status And Plans

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Product Owner for APEL at STFC
14/05/24

# New APEL Release

## 2.0.0-1 released on GitHub on the 8th May

- Migrates the APEL codebase to Python3
  - As well as other changes, details at: https://github.com/apel/apel/releases/tag/2.0.0-1
- EL8+ RPMs (and EL7) for APEL are available at the above link
  - if you encounter any bugs, please report them via either:
    - GitHub issues
    - GGUS
    - Via the team helpdesk

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# APEL Organisation Update

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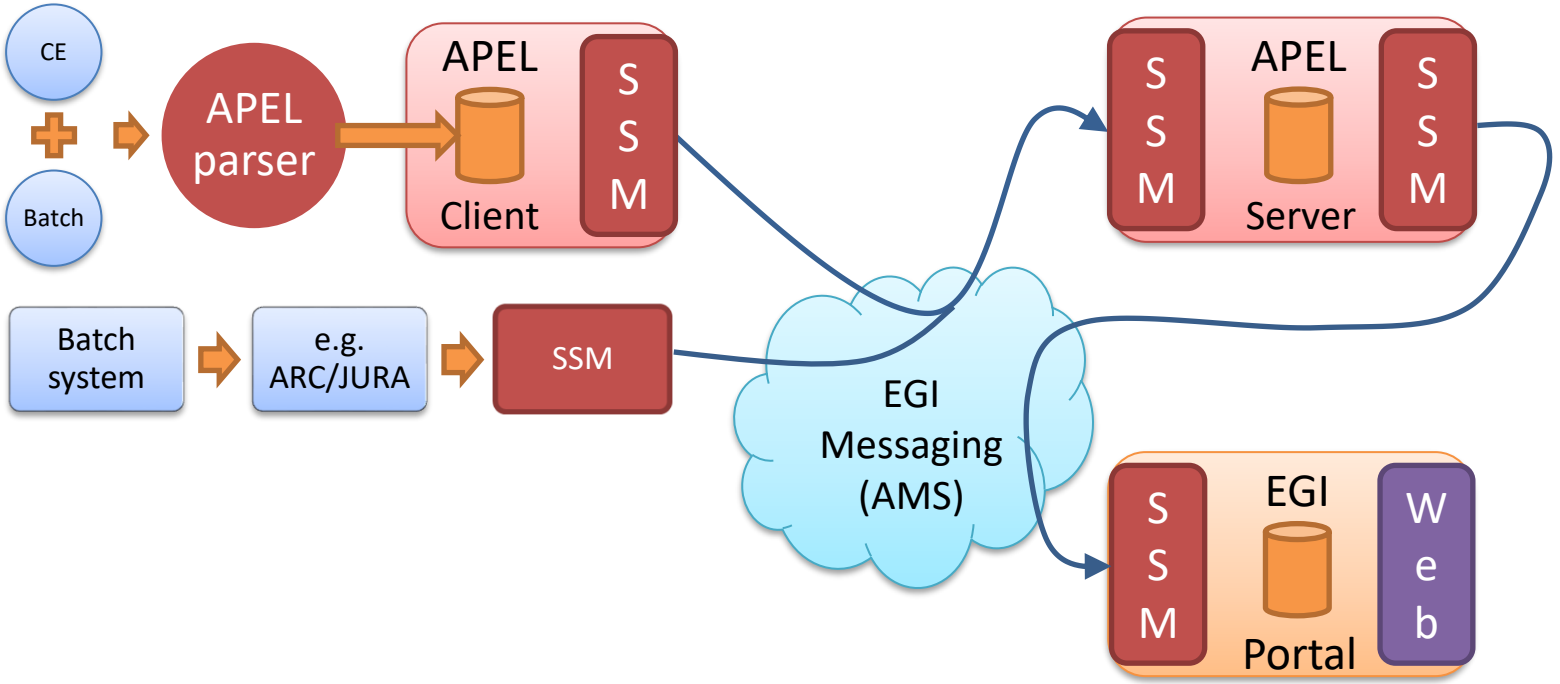
# APEL at STFC

- STFC manages the development of the APEL Client, Server, and messaging client, as well as running the APEL server service
- STFC is not responsible for the accounting frontends (EGI Accounting and CRIC), or EGI Messaging/AMS/Argo Messaging Service



# APEL Reorganization - Team Structure

- Earlier this year, we took steps to restructure and reorganise the management of APEL, and other services - such as GOCDB
- Services now have a single, clear team leader
- Unified as one Federating services/Grid tools team
  - Separate from the RAL Tier 1 & Tier 2
  - Taking some overhead responsibility away from developers/service manager
  - This allows a refocus on requirements management and delivering key priorities for stakeholders – such as WLCG

# APEL Reorganization – Agile Methods

- As part of the team changes, Agile methods and processes have been adopted
- This includes agreed upon planning and reporting processes, and short term development goals – allowing value to be delivered sooner
  - Peer led planning increments, based on Product Owner* defined priorities
  - Makes better use of shared developer and service manager effort development work

*Product Owner: the Agile team member primarily responsible for maximizing the value delivered by the team by ensuring that the team backlog is aligned with customer and stakeholder needs.

# APEL Reorganization – Next Steps

- Revisions to Operational Management within the team
  - Sharing service manager operations within the team
  - This will involve knowledge sharing to ensure more staff able to handle operational issues

- Improved helpdesk functions
  - Implementing new internal ticketing, to manage ownership and work done for support requests

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# APEL Development Update

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# Features for Next Planning Increment

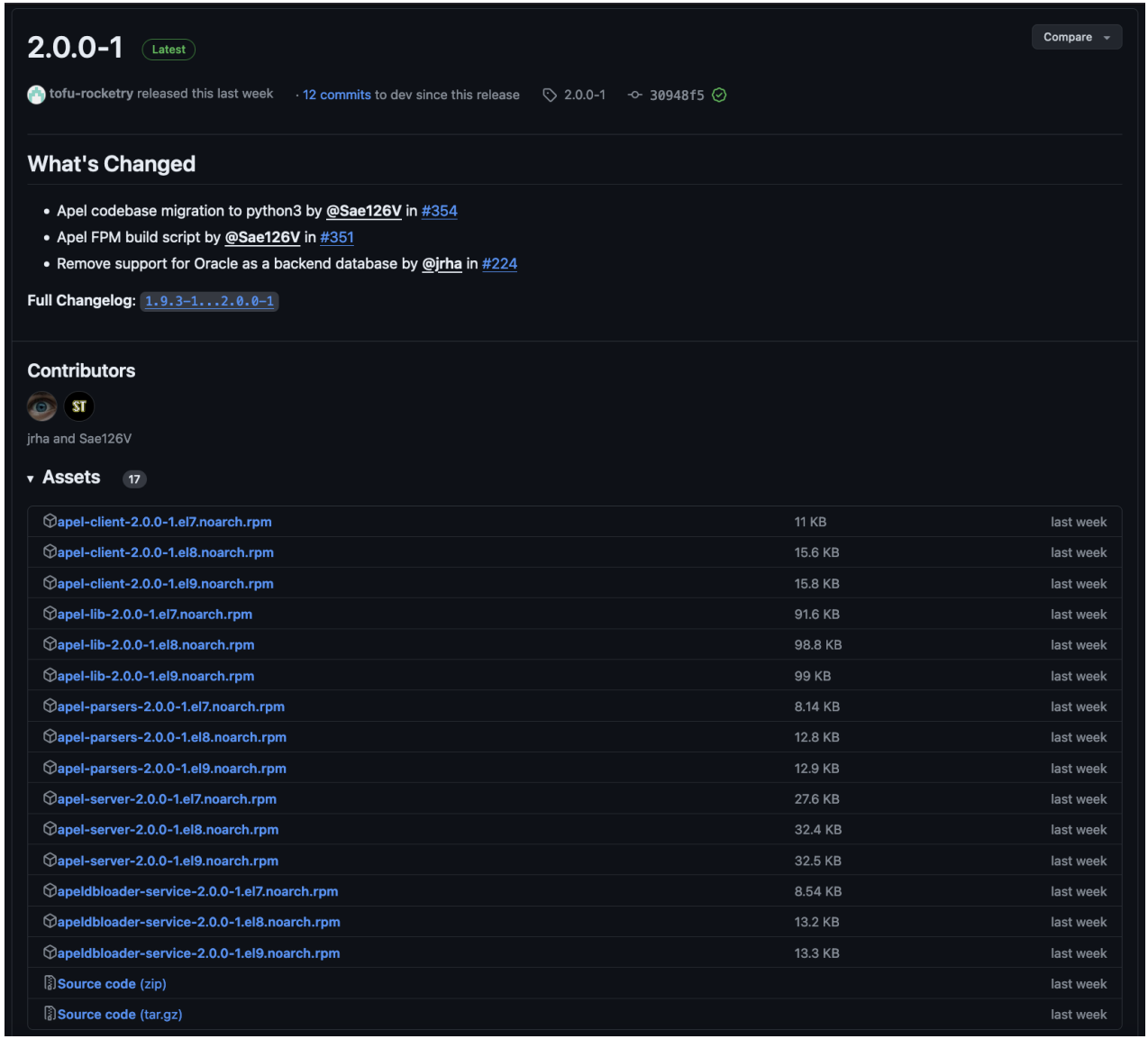
## PI2 Planning on 24th May, to cover the following 2 months

- The feature backlog has been reviewed and prioritised, and a retrospective for this increment will happen during the week of 20/05
- Priority features will planned based on team capacity
- Prioritised features:
  - Update and replacement of the Pub/Sync monitoring system
  - Finalisation of HEPScore23 Accounting to production
  - Upgrading of STFC-run APEL service and operating systems

# Python 3 & New OS Compatibility

## 2.0.0-1 released on GitHub on the 8th May

- APEL server and client software is now compatible with Python 3.
  - We last week released **2.0.0-1** which has RPMs for EL 7, 8 and 9.
  - The EL 8 and 9 packages for SSM 3.4.0-1 have been rebuilt which should fix an issue some early adopters were seeing.
- Testing of HEPscore23 rebased onto Py3 base, and compatibility work is currently underway
- Fixes for EL8 & 9 builds with prioritised, as found



2.0.0-1 Latest

Compare

tofu-rocketry released this last week · 12 commits to dev since this release 2.0.0-1 30948f5

**What's Changed**

- Apel codebase migration to python3 by @Sae126V in #354
- Apel FPM build script by @Sae126V in #351
- Remove support for Oracle as a backend database by @jrha in #224

**Full Changelog:** 1.9.3-1...2.0.0-1

**Contributors**

jrha and Sae126V

**Assets** 17

| | | |
|---|---|---|
| apel-client-2.0.0-1.el7.noarch.rpm | 11 KB | last week |
| apel-client-2.0.0-1.el8.noarch.rpm | 15.6 KB | last week |
| apel-client-2.0.0-1.el9.noarch.rpm | 15.8 KB | last week |
| apel-lib-2.0.0-1.el7.noarch.rpm | 91.6 KB | last week |
| apel-lib-2.0.0-1.el8.noarch.rpm | 98.8 KB | last week |
| apel-lib-2.0.0-1.el9.noarch.rpm | 99 KB | last week |
| apel-parsers-2.0.0-1.el7.noarch.rpm | 8.14 KB | last week |
| apel-parsers-2.0.0-1.el8.noarch.rpm | 12.8 KB | last week |
| apel-parsers-2.0.0-1.el9.noarch.rpm | 12.9 KB | last week |
| apel-server-2.0.0-1.el7.noarch.rpm | 27.6 KB | last week |
| apel-server-2.0.0-1.el8.noarch.rpm | 32.4 KB | last week |
| apel-server-2.0.0-1.el9.noarch.rpm | 32.5 KB | last week |
| apeldbloader-service-2.0.0-1.el7.noarch.rpm | 8.54 KB | last week |
| apeldbloader-service-2.0.0-1.el8.noarch.rpm | 13.2 KB | last week |
| apeldbloader-service-2.0.0-1.el9.noarch.rpm | 13.3 KB | last week |
| Source code (zip) | | last week |
| Source code (tar.gz) | | last week |

# HEPScore

- Work to finalise changes, testing, and production rollout
  - Code changes complete barring anything new being raised in testing.
  - Initial tests on migration script for the database have been successful.
  - Code does need re-testing now that the Python 3 work has been merged.
    - Additional sites sending test data appreciated.

- Deploying to production planned for the next two-month increment – exact dates to be understood
  - A pre-release RPM is available, please reach out if you would like access

# New Pub/Sync Monitoring System

- Work on this stalled when bugs were encountered with the new system, and effort needed to be directed towards Python 3/EL8+ development.
- Manually summarised output, similar to the pub/sync system, is being provided to EGI Ops so that they can keep an eye on site publishing.
- Until the new system is deployed, If sites require data for reports or similar, they can request a manual extraction of the results via GGUS.

# STFC-APEL Infrastructure Migration

- Completion of the Python 3 and new OS compatibility work enables infrastructure migration work to wrap up.
- The APEL Repository is currently on dedicated hardware running EL 7, with configuration management only for the base host.
- It will move to a departmentally managed Galera Cluster for the database, and a fully configuration managed VM – targeting Rocky 9 - for the APEL server.

# Future Work

## Planning for the subsequent increment (PI3) will be late July/early August

- The following are on the feature backlog for future development:
  - Token authenticated accounting
  - GPU Accounting
  - Storage Accounting

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# Questions?

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# Thank you

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