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APEL Update

GridPP52, August 2024

Tom Dack

Introduction to the APEL Team

- Team Leader: Tom Dack
- Service Manager & Lead Developer: Adrian Coveney
- Federating Services Team Developer: Saiteja Vennapusa
- Operational/Development Support: Greg Corbett

Further Operational Support as part of Federating Services on-duty currently provided by Rose Cooper

Honorary Members:



Pasta



Toastie



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Development Updates



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Development Work Completed during June-July 2024

Planning Increment 1

- **SL7 Migration Prep for APEL Server**
 - As part of this, moving APEL Server from dedicated hardware to VM platform
 - This provides better sustainability and management of the service
 - Puts APEL with the RAL Quattor Configuration management platform
 - Moves database to managed Galera cluster
- **Accounting for interTwin**
 - A simple accounting system (similar to IRIS dashboard) has been deployed
 - Work within the interTwin space – including storage, GPU, and Kubernetes accounting – will deliver value for GridPP and IRIS down the road

Development Work Completed during Aug-Sept 2024

Planning Increment 2

- **SL7 Migration Wrap-Up**
 - IRIS Accounting hosts and other VMWare hosts migrated
 - Final steps for main server migration underway
- **New Release for APEL software**
 - Py3 client fix for LDAP issue [github.com/apel/apel/issues/375]
 - Fix for VOMS attribute parsing when no Role/Capability present [github.com/apel/apel/issues/374]
 - Support for deletion of stale Cloud Accounting summaries [github.com/apel/apel/issues/217]
- **interTwin**
 - Next steps to deploy accounting platform

Development Work Completed during Aug-Sept 2024

Planning Increment 2

- **HEPScore**

- HEPsScore testing currently underway, targeting a late Sept/early Oct rollout
- Greg Corbett is coordinating our side of HEPsScore testing, working with Julia Andreeva and the HEPsScore WG
- Testing so far has been with the sites:

CERN-PROD	KIT	FZK-LCG2	PIC
UNI-FREIBURG	INFN-CNAF-LHCB	IN2P3-CC	RAL-LCG2

- These cover a range of clients and message types, from HTCondor with the APEL Client, ARC, and more bespoke clients.

Development Work Completed during Aug-Sept 2024

Planning Increment 2

- **HEPScore – cont.**
 - As a summary on each:
 - **CERN-PROD** – successfully sending test normalised data
 - **KIT, FZK-LCG2** and **PIC** – all using HTCondor with the APEL client, and have successfully tested sending individual job records
 - **UNI-FREIBURG** and **INFN-CNAF-LHCB** – both are using more bespoke means to send data, which have been tested successfully
 - **RAL-LCG2** – have successfully sent test data
 - IN2P3-CC is ongoing via GGUS 163458, they've just got back to us 28/08 in fact - so we will progress with validating the data.
 - We are also waiting to hear back from **OSG** and the **TUBITAK** site.
 - Working with CESGA's contractors, the issue with the staging version of the EGI Accounting Portal has been identified, and should be soon sorted

Development Work Planned For Oct-Nov 2024

Planning Increment 3

- **Final HEP Score deployments**
 - Targeting to be wrapped up by 25th October, depending on planning & scheduling
- **Deployment and re-release of new pub/sync service**
 - Validation service, primarily used by EGI
 - It is anticipated that this will benefit other communities also
- The previous two are the last notable items on the current backlog
- We anticipate that in the second half of this PI, we will be able to look at new feature development for APEL
 - A notable item in this list includes support for WLCG Tokens



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Operational Updates



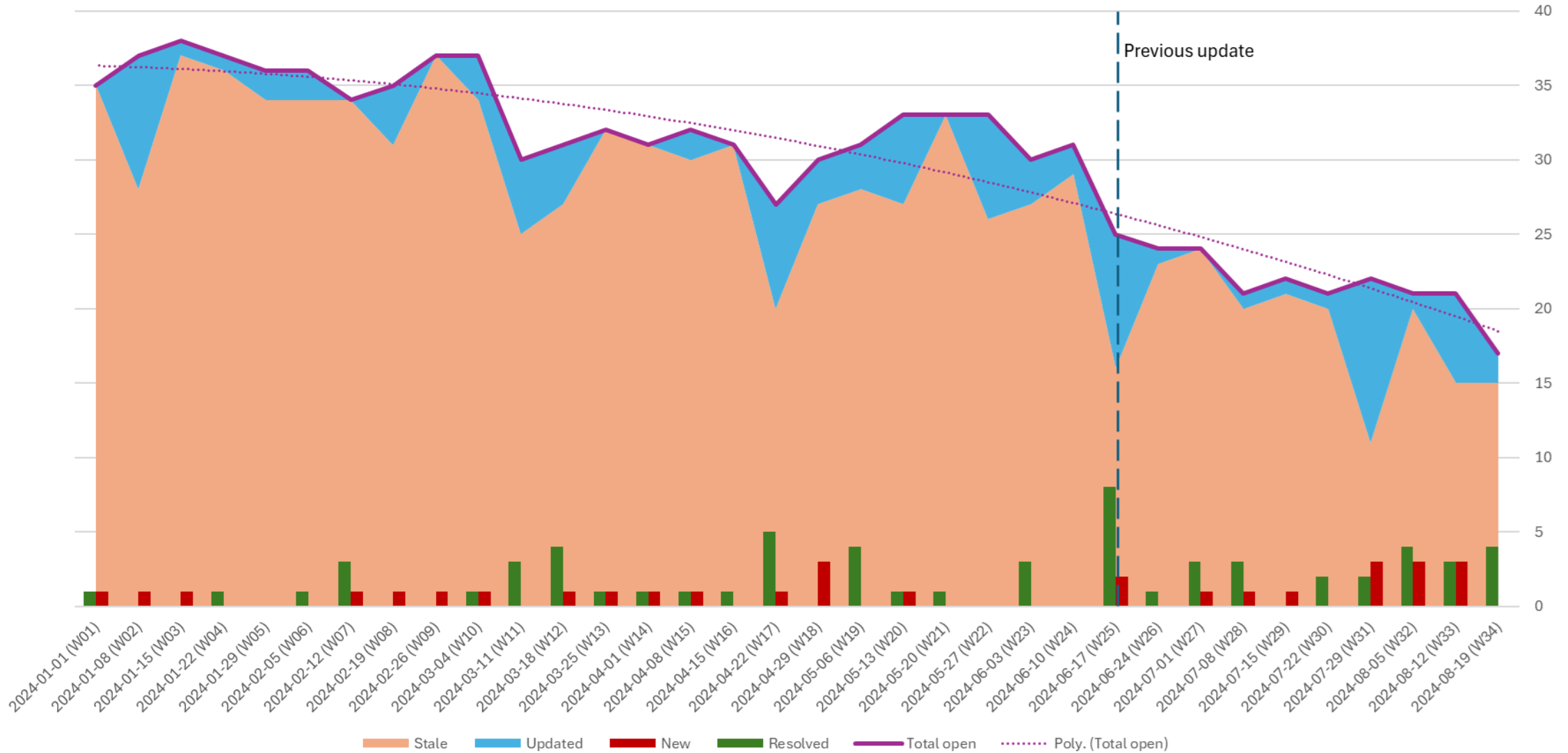
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Ticketing and Support Improvements

APEL GGUS SU ticket metrics



Ticketing and Support Improvements

- Ticketing has been a previous pain point – but improved processes and prioritisation has helped improvements in this space
- **Next Steps:**
 - Re-organisation of on duty responsibilities within the team, to have On Duty responsible for first-response & triage, which can be escalated to service manager team as needed
 - Improved shared knowledge between Federating Services Team service knowledge, to prevent single points of failure
 - Ongoing recruitment for a role split between CA service manager and FED team helpdesk/service manager



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Closing Remarks



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Closing Remarks

- A busy year for APEL, for several reasons
- **Service is now in a much healthier state**
 - Positive trajectory for service development and operations
 - Better stakeholder engagement with WLCG – engaging and sharing the team planning process
 - Nearing the position where the team can start delivering new features



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Questions?

