Accounting of (HPC) Resources with AUDITOR





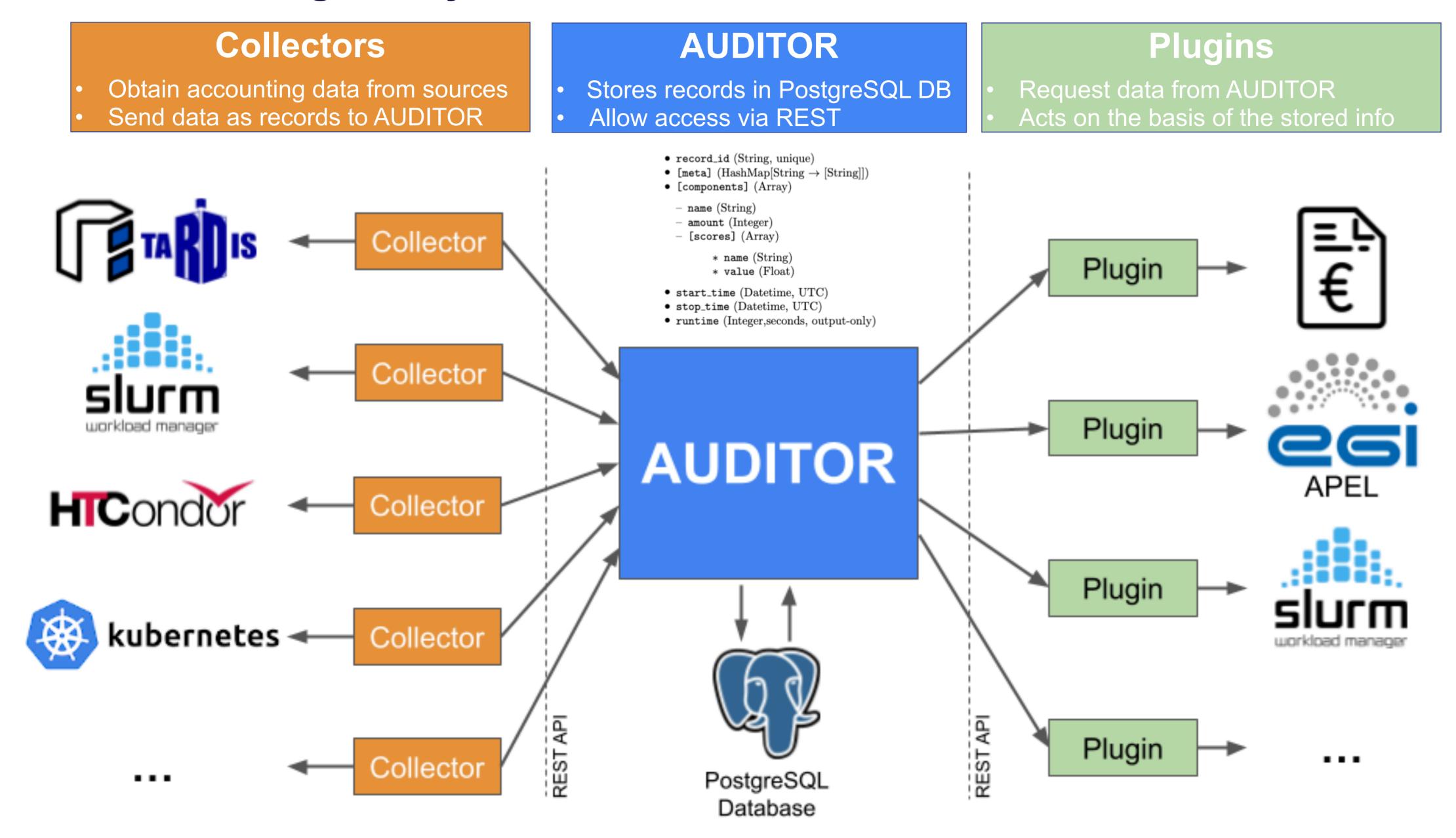


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Introduction

- AUDITOR is a multi purpose accounting ecosystem
- Suitable for accounting of combined resources e.g. via COBaID/TARDIS

The AUDITOR Accounting Ecosystem

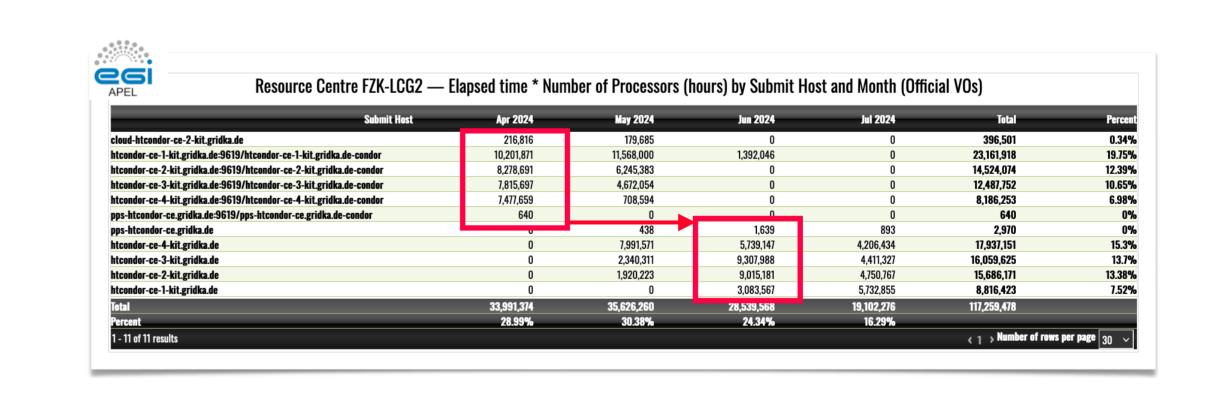


Selected Accounting Use Cases

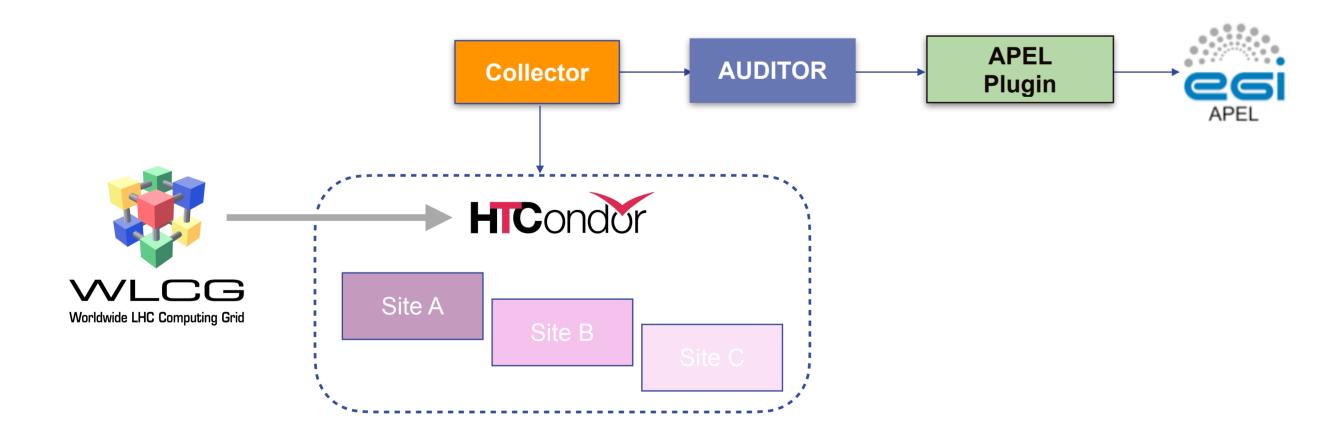
1. Replace EGI Accounting by AUDITOR Pipeline



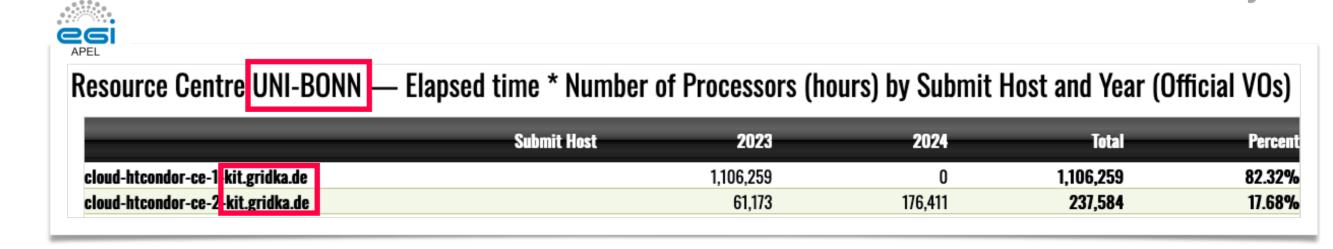
use case: DE Tier-1 @ KIT replaced APEL client by AUDITOR



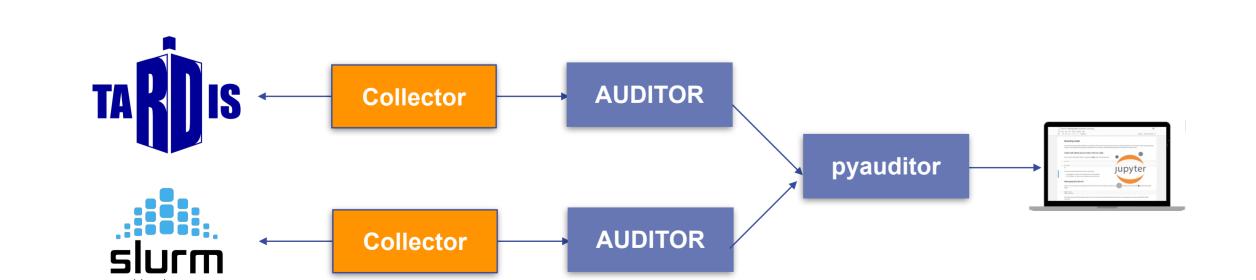
2. Account resources behind one CE for different providers

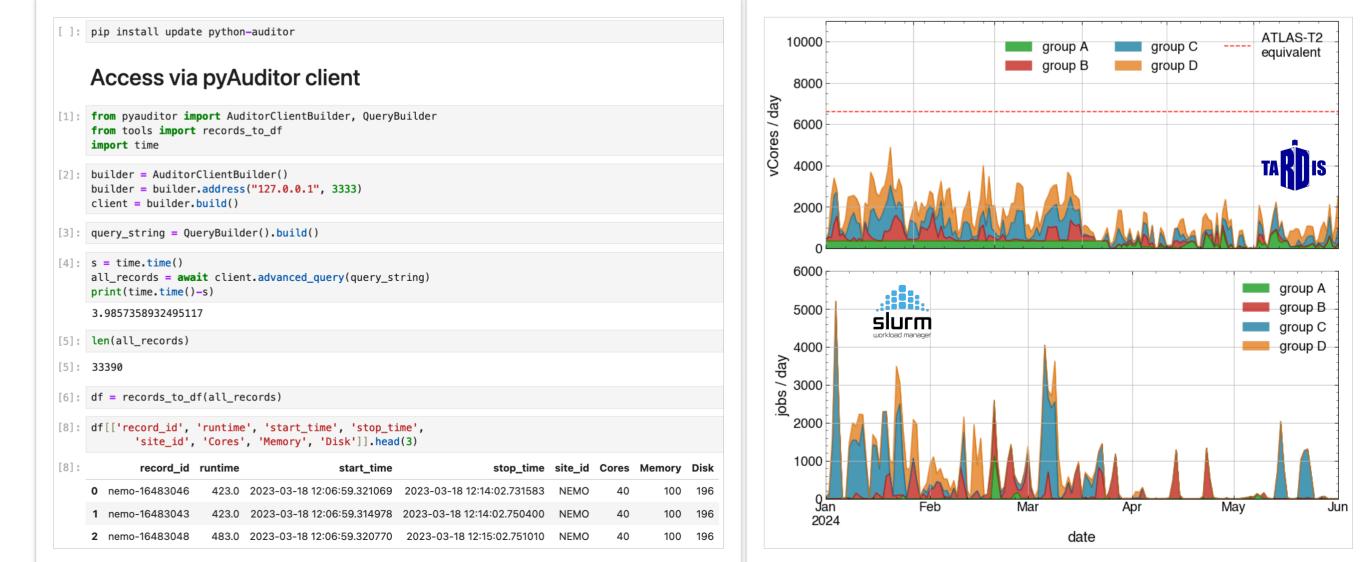


use case: DE-TARDIS queue @ KIT integrates (HPC) resources from different compute sites (e.g. Uni-Bonn). AUDITOR allows to account sub-clusters individually



3. Collect Accounting data (from several source) → create combined report





use case: ATLAS Tier-3 @ UniFR integrates HPC resources, accounting of HPC done by TARDIS Collector, of ATLAS Tier-3 s by Slurm Collector, combined plots created via pyauditor client in jupyter notebook (few lines of code)

References:

- [1] Boehler, M., Gamel, A. J., Kroboth S., et al. (2024). AUDITOR: Accounting for opportunistic resources 10.1051/epjconf/202429504008
- [2] Boehler, M., von Cube, F., Fischer, et al. (2024). The accounting ecosystem AUDITOR (v0.6.2). Zenodo. 10.5281/zenodo.13239266
- [3] Software Repository: github.com/ALU-Schumacher/AUDITOR/