

## HTCondor Workshop Autumn 2024 in Amsterdam



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# Dynamic resource integration with COBalD/TARDIS

*Wednesday 25 September 2024 14:00 (20 minutes)*

With the continuing growth of data volumes and computational demands, compute-intensive sciences rely on large-scale, diverse computing resources for running data processing, analysis tasks, and simulation workflows.

These computing resources are often made available to research groups by different resource providers resulting in a heterogeneous infrastructure.

To make efficient use of those resources, we are developing COBalD/TARDIS, a resource management system for dynamic and transparent integration.

COBalD/TARDIS provides an abstraction layer of resource pools and sites and takes care of scheduling and requesting those resources, independent of their sites local resource management systems.

Through the use of adapters, COBalD/TARDIS is able to interface with a range of resource providers, including OpenStack, Kubernetes, and others, as well as support different overlay batch systems, with current implementations for HTCondor and SLURM.

In this contribution we present the general concepts of COBalD/TARDIS, several setups, with a focus on those using HTCondor, in different university groups, as well as WLCG sites.

### Desired slot length

### Speaker release

Yes

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