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Transparent expansion of a WLCG compute site using HPC resources

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Restarting the LHC again after more than 3 years of shutdown, unprecedented amounts of data are expected to be recorded. Even with the WLCG providing a tremendous amount of compute resources to process this data, local resources will have to be used for additional compute power. This, however, makes the landscape in which computing takes place more heterogeneous.

In this contribution, we present a solution for dynamically integrating non-HEP resources into existing infrastructures using the COBalD/TARDIS resource manager. By providing all resources through conventional CEs as single point-of-entry, the use of these external resources becomes completely transparent for experiments and users.

In addition, experiences with an existing setup, operated in production since more than a year, extending the German Tier 2 WLCG site operated at RWTH Aachen University with a local HPC cluster will be discussed.

Experiment context, if any

References

Significance

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