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The Vacuum Platform

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This paper describes GridPP's Vacuum Platform for managing virtual machines (VMs), which has been used to run production workloads for WLCG, other HEP experiments, and some astronomy projects. The platform provides a uniform interface between VMs and the sites they run at, whether the site is organised as an Infrastructure-as-a-Service cloud system such as OpenStack with a push model, or an Infrastructure-as-a-Client system such as Vac with a pull model. The paper describes our experience in using this platform, in developing and operating VM lifecycle managers Vac and Vcycle, and in interacting with VMs provided by LHCb, ATLAS, CMS, and the GridPP DIRAC service to run production workloads.

Tertiary Keyword (Optional)

Computing middleware

Secondary Keyword (Optional)

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Primary Keyword (Mandatory)

Cloud technologies

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