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Management of virtualized infrastructure for databases in HEP

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As elsewhere in today's computing environment, virtualisation is becoming prevalent in the database management area where HEP laboratories, and industry more generally, seek to deliver improved services whilst simultaneously increasing efficiency. We present here our solutions for the effective management of virtualised databases, building on over five years of experience dating back to studies with the Xen hypervisor in early 2006.

After reviewing the evolving functionality of virtualisation solutions for database and middle tier and their associated virtualisation management applications, we will present CERN's solutions for managing our virtualized database infrastructure efficiently and explain how these solutions have enabled us to meet the rapidly increasing demands for database storage of physics metadata with an improved service availability.

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