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Development of a knowledge base system for administration of the NRC 'Kurchatov Institute' – IHEP computing center based on Linux history tools

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Computer administration of complex computing systems and distributed computing clusters presents significant challenges. Each sophisticated computer system has unique architecture and software configurations, it is custom-built and it is optimized for specific operational requirements and support conditions. Long-term system administration of such environments includes daily execution of various server commands - both for troubleshooting and for monitoring system behavior under different operational loads. These accumulated commands can be transformed into a valuable knowledge base for future use. This paper describes the development of such knowledge management system using Linux history tools at NRC "Kurchatov Institute"–IHEP

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