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Multicomponent cluster management system for the computing center at IHEP

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Cluster management system is a core part of any computing infrustructure. Such system includes components for allocating and controling over resources for different computing tasks, components for configuration management and software distribution on the computing hardware, components for monitoring and management software for the whole distributed infrustructure. The main goals of such system are to create autonomic computing system with functional areas such as self-configuration, self-healing, self-optimization and self-protection or to help to reduce the overall cost and complexity of IT management by simplifying the tasks of installing, configuring, operating, and maintaining clusters. In the presented work current implementation of the multicomponent cluster management system for the IHEP computing center will be shown. For the moment this system consists of event-driven management system, configuration management system, monitoring and accounting system and a chat-ops technology which is used for the administration
tasks.

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