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Impact of Configuration Management system of computer center on support of scientific projects throughout their lifecycle

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In this article the problem of support of scientific projects in the computer center is considered throughout their lifecycle and in every aspect of support. Configuration Management system plays a connecting role in processes related to the provision and support of services of computer center. In view of the strong integration of IT infrastructure components with the use of virtualization, control of infrastructure becomes even more critical to the support of research projects, which means higher requirements for the Configuration Management system. For every aspect of the support of research projects the influence on him from the Configuration Management system is reviewed and development of the corresponding elements of the system is described in the paper.
The key article is to review the Configuration Management system of computer center as a central component of the set of proactive procedures in support of scientific projects and the maintenance of the infrastructure. This set of activities tied to the Configuration Management system, aims to prevent accidents and to maintain a stable level of services.
Particular attention is paid to the resolution of specific requirements for the system, caused by the specifics of the computer center: the collective use of supercomputing resources and the use of solutions based on virtualization.
In addition, the article describes the possible future development of the system.

Summary

The key feature is to review the Configuration Management system of computer center as a central component of the set of proactive procedures in support of scientific projects and the maintenance of the infrastructure. This set of activities tied to the Configuration Management system, aims to prevent accidents and to maintain a stable level of services.

Primary author: Prof. BOGDANOV, Alexander (St.Petersburg State University)

Co-authors: Mr IUZHANIN, Nikolai (SPbSU); Ms EZHAKOVA, Tatiana (SPbSU); Dr ZOLOTAREV, Valery (SPbSU)

Presenter: Mr IUZHANIN, Nikolai (SPbSU)

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