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OpenStack Chances and Practice in IHEP

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OpenStack is a global collaboration of developers and cloud computing technologists producing the open standard cloud computing platform for both public and private clouds. The project aims to deliver solutions for all types of clouds by being simple to implement, massively scalable, and feature rich. The technology consists of a series of interrelated projects delivering various components for a cloud infrastructure solution. This talk will present the status of the project from the user's and developer's perspectives and also show our practice on using OpenStack to build our cloud computing environment in data center. Then a series of experiments will be conducted and the performance comparison with the current solution will be also demonstrated. Some interesting research and development what we concern on OpenStack will be stated, including private cloud store for HEPiX users, operation monitoring, etc. Finally, the future developments of OpenStack such as auto deployment, network planning and high availability will also be discussed.

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