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Container Image Management Service at IHEP (Remote Presentation)

This article presents a Container Image Management Service designed for High Energy Physics Research Institutes. The service utilizes Harbor, Cvmfs, and a self-developed image conversion tool, along with other related security components.It meets the specific requirements of high-energy physics image services and focuses on large-capacity and multi-version update management to ensure stable and efficient distribution. It supports automatic publication of mirror images across multiple sites, achieving high transmission performance through proxies and caching. Additionally, it supports conversion of images in multiple formats and incorporates multi-dimensional security measures to ensure the safety and integrity of the images. Currently, it has been applied in multiple experimental projects.

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Track Classification: Track 5: Virtual Research Environment (including tools, services, workflows, portals, … etc.)