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Connecting Open Science Infrastructures: CSTCloud, GOSC Initiative, and Future Envisions

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The China Science and Technology Cloud (CSTCloud) stands as one of the key national research e-infrastructures in China. Sponsored by the Chinese Academy of Sciences, CSTCloud aims to empower scientists with efficient and integrated cloud solutions across domains and disciplines. Through the integration of big data, cloud computing, and artificial intelligence, CSTCloud delivers robust data and cloud computing services to bolster scientific innovation and socioeconomic development. To break silos across domains and regions, the idea of co-designing and co-developing a Global Open Science Cloud was proposed during the CODATA Beijing 2019 Conference. This report introduces both CSTCloud and the GOSC initiative, focusing on CSTCloud cloud services and recent pilots within the CSTCloud-EGI and CSTCloud-AOSP EA cloud federations. It also highlights regional collaborations with Africa and Southeast Asia under the GOSC umbrella. Additionally, key cloud technologies and applications deployed in the newly established GOSC testbed will be shared, discussing the interoperability issues across diverse research domains and geographical regions. We aim to offer insights into constructing innovative open science infrastructures in the digital age, fostering robust alignment among stakeholders for interconnected and interoperable open science clouds, and bringing open dialogues in connecting research e-infrastructures for future-led Open Science and SDGs.

Topic

Needs and solutions in scientific computing: National and scientific perspectives

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