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Infrastructure consideration for Science Engagement Information Management Systems on CHPC

Tuesday, 3 December 2024 12:00 (20 minutes)

The Science Engagement Information Management Systems (SEIMS) is a digitalisation initiative of the Department of Science and Innovation (DSI)'s Science Engagement (SE) Programme in collaboration with the CSIR-NGEI and other stakeholders. The SE programme has the main objective of creating a society that is scientifically literate towards socio-economic emancipation. SEIMS consists of a number of initiatives run by different stakeholders with the aim of expediting the monitoring and evaluation processes in SE programmes by eradicating manual data management. The infrastructure of SEIMS is split between production and testing environments. The production environment is publicly available and requires high availability. As a result, a topology that supports these requirements was adopted. On the other hand, the testing environment mainly required availability and a topology supporting this requirement had to be adopted. For this purpose, the CHPC infrastructure, a DSI supported cyber-infrastructure was utilised. The CHPC
collaborated with the CSIR-NGEI's Software Architecture and Solutions (SAS) group for the sourcing and configuration of the infrastructure necessary for the SEIMS initiative. This presentation with outline experiences and lessons learned through utilization of the infrastructure and how it helped fulfill the requirements and demands of the SEIMS product.

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Workshop Duration

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