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CC-EPOS: Earthquake simulation use case (MISFIT)

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The goal of the project is to make use of EGI.eu's federated cloud resources for the MISFIT part of EPOS computation pipeline. In order to leverage the huge resources available to parallelize the work across many resources provided by member sites.

The CNRS/IN2P3/IPHC cloud site has been setup to allow verce.eu Virtual Organization members to access the resources. Appliance images from the cloud marketplace at the EGI application database were installed. The network needed some configuration to allow relevant traffic to get through. The IRES-IN2P3 resource site has then been configured on the Verce development portal.

The version of GUSE/WSPGRADE initially used did not support OCCI interface, or VMs with floating IP addresses, both being requirements for seamless integration of fedcloud resources, so new versions were developed by Sztaki and then installed at SCAI.

The ongoing / current work is to evaluate the feasibility of compute workflow submission to EGI fedcloud resources.

What remains to be done is the investigation of generic image contextualization versus a complete image creation and its maintenance.