

The future EOSC-hub Marketplace for discovery e-/research infrastructure services

Content of your abstract

The European Research Area is lacking of an integrated service portfolio, while the current landscape of e-infrastructure services is fragmented by diverse access policies, support channels and service discovery mechanisms. EGI took the first steps in bringing harmonisation into this landscape by establishing the 'EGI Marketplace', a one-stop-shop for anyone to discover, request and access e-infrastructure services from EGI's federated providers. This demonstration will introduce the EGI Marketplace and how it will be used in the EOSC-hub H2020 initiative from 2018 to pull together services from EGI, EUDAT and INDIGO-DataCloud provides, and potentially to become 'the landing page' for users of the European Open Science Cloud. In this demo, we tackle the practical problem to facilitate the discovery and the access of e-Infrastructure services with the aim to support the exchange of research knowledge, ICT resources and services. To address this issue, we propose a marketplace as a service concept, where services can be advertised along with the related access policies and service levels. The overall goal of this marketplace is to represent a single entry point where a new customer can discover a service, get information about it, and place an order in few clicks by specifying the service requested along with the quantity, the quality and the duration. The technology behind this marketplace has been adopted by the EOSC-hub project to promote the services that will be integrated in its service catalogue. During the demo, we will also show how a customer can access the marketplace, navigate the catalogue to find information and eventually to access services. The services range from foundational e-infrastructure capabilities – such as cloud or HTC computing resources – to higher level systems – such as application brokers or scalable scientific applications for certain domains. From a technical perspective the Marketplace is built on top of PrestaShop, a free and Open Source e-commerce solution, to offer the best shopping cart experience for both merchants and customers, it is composed by a three high-level hierarchy and it has been designed to be easily extended to publish services offered by other e-/research infrastructures. The Marketplace is publicly accessible at <http://marketplace.egi.eu> and currently operates as a Beta service by EGI. The Marketplace back-end is connected to a ticketing system through which service requests can be tracked and distributed to providers. The Marketplace was launched in October 2017 with services of the EGI service portfolio. While most of the services are directly registered into the catalogue, science domain specific application services can be also integrated through the 'EGI Applications On Demand' service (AoDs). AoDs is operated as an open and extensible 'application hub' for programmers who wish to turn and offer scientific codes, Virtual Research Environments 'as Services' for international user communities - or often to members of the 'long-tail of science' AoDs offers integrated user identity vetting and support mechanisms, simplifying the task of service provisioning and consuming in a federated world.

Topic Area

The EOSC & EDI building blocks

Type of abstract

Demonstration

For SESSION abstracts only: session outline

For DEMO abstracts only: technical requirements

One video screen with VGA/HDMA adaptor and public network connectivity (port 80).

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