

# EGI Portfolio draft

Service name	Service area	Service phase	Service description	Customer group	Tagline	Features	Access policies
Cloud Container Compute	Compute	Beta	<p>Cloud Container Compute gives you the ability to deploy and scale Docker containers on-demand. It offers guaranteed computational resources in a secure and isolated environment with standard API access, without the overhead of managing the operating system.</p> <p>The result is improved performance, ideal for development</p>	EGI and EGI Federation participants, Researchers, SME/Industries	Run Docker containers in a lightweight virtualized environment	<ul style="list-style-type: none"> <li>• On-demand provisioning</li> <li>• Lightweight environment for maximised performance</li> <li>• Standard interface to deploy on multiple service providers</li> <li>• Interoperable and transparent</li> <li>• -Reduce time to production by removing friction between development and operations environments.</li> </ul>	Policy-bas Market-dri
Cloud Compute	Compute	Production	<p>Cloud Compute gives you the ability to deploy and scale virtual machines on-demand. It offers guaranteed computational resources in a secure and isolated environment with standard API access, without the overhead of managing physical servers.</p> <p>Cloud Compute offers the possibility to select pre-configured virtual appliances (e.g. CPU, memory, disk, operating system or software) from a catalogue</p>	EGI and EGI Federation Participants, Research Communities, VREs, SME/Industry	Run virtual machines on-demand with complete control over the computing resources	<ul style="list-style-type: none"> <li>• -On--demand provisioning</li> <li>• Full control over computing resources</li> <li>• Standard interface to deploy on multiple service providers</li> </ul>	Policy-bas Market-dri

			<p>replicated across all EGI cloud providers.</p>				
High-Throughput Compute	Compute	Production	<p>With High-Throughput Compute you can run computational jobs at scale on the EGI infrastructure. It allows you to analyse large datasets and execute thousands of parallel computing tasks.</p> <p>High-Throughput Compute is provided by a distributed network of computing centres, accessible via a standard interface and membership of a virtual organisation. EGI offers more than 650,000 cores of installed capacity, supporting about 1.6 million computing jobs per day.</p> <p>This service supports research and innovation at all scales: from individuals to large collaborations.</p>	EGI and EGI Federation participants, Research communities, SME/Industry	Execute thousands of computational tasks to analyse large datasets	<ul style="list-style-type: none"> <li>• Access to high-quality computing resources</li> <li>• Integrated monitoring and accounting tools to provide information about the availability and resource consumption</li> <li>• Workload and data management tools to manage all computational tasks</li> <li>• Large amounts of processing capacity over long periods of time</li> <li>• Faster results for your research</li> <li>• Shared resources among users, enabling collaborative research</li> </ul>	Policy-bas Market-dri
Content Distribution	Data	Beta	<p>Deliver content with scalable, reliable and low maintenance software and data delivery system available as user-space read-only file system</p>	EGI and EGI Federation participants, Researchers, VREs, SMEs	Deliver data in the most efficient way		Policy-bas Wide acce
Federated Data Manager	Data	Alpha	<p>Share, discover, and process data federated from</p>	EGI and EGI federation participants, Research	Share, discover, and process data federated from		Policy-bas Market-dri

			different sources. The service provides you a single virtual storage that maps virtual paths to physical file paths. Files can be distributed across different types of storage and across multiple storage providers, but users can store their data across multiple sites, and can run their applications directly on their personal computers or workstations, as if the files are local.	communities, SME/Industry	different sources	
Data Hub	Data	Discovery	Access selected public datasets and efficiently consume them from EGI compute services		Access key scientific datasets scalably	Policy-bas
Data Transfer	Data	Production	Data Transfer allows you to move any type of data files asynchronously from one place to another. The service includes dedicated interfaces to display statistics of on-going transfers and manage network resources.  Data Transfer is ideal to move large amounts of files or very large files. The Data Transfer service has mechanisms to ensure automatic retry in case of failure.	EGI and EGI Federation participants, Research communities, SME/Industry	Transfer large sets of data from one place to another	Policy-bas
Configuration Database	Operations	Production	The	EGI and EGI Federation Participants	Manage the configuration information of	Policy-bas

Configuration Database is a central registry to record topology information about all the participating sites of your e-infrastructure.

federated e-infrastructure assets and their functional relations

The Configuration Database also provides different rules and grouping mechanisms for filtering and managing the information associated to resources. This can include entities such as operations and resource centres, service endpoints and their downtimes, contact information and roles of staff responsible for operations at different levels.

Service Monitoring

Operations

Production

Service Monitoring keeps an eye on the performance of your IT services and highlights potential issues.

Service Monitoring allows you to probe services, collect monitoring data and to merge it into customised statistics, through a friendly user interface.

EGI and EGI Federation participants

Monitor a wide range of services across your infrastructures

- -Minimal development effort for setting up monitoring services
- Based on extensive experience of monitoring large distributed infrastructures
- User-friendly, ready-to-use interface

Policy-bas

Helpdesk

Operations

Beta

Helpdesk services offers professional, reliable and efficient technical support ticketing system

Handle service requests and incidents for distributed support teams

Policy-bas

to guarantee a well-run infrastructure with improved productivity and usability. Setting up helpdesk facilities for federated infrastructures is expensive and is a real cost that lowers your bottom line on a daily basis; while, outsourcing is viewed as a deductible business expense

Attribute Management	Security	Production	<p>EGI provides services to manage user membership, where users can register and ask to be part of a VO, and where the VO supervisor can approve or remove users from the VO. The service is a third party service that can be queried by service providers to decide on user authorization.</p> <p>Currently EGI has in production: VOMS an X.509 based service</p> <p>In the wake of extending AAI capabilities, EGI will provide similar capabilities also for other authentication technologies, like OpenID and SAML2, for example.</p>	Research communities, research infrastructure	Manage community membership and expose trusted information	<ul style="list-style-type: none"> <li>•Manage user membership</li> <li>•Users can register and ask to be part of a community</li> <li>•The community supervisor can approve or remove users</li> </ul>	Policy-bas
Check-in	Security	Alpha	The IdP Proxy provides AAI services for	EGI and EGI Federation participants,	Handle transparent Single Sign-On	<ul style="list-style-type: none"> <li>• Enables federated access to</li> </ul>	Policy-bas

both service providers and users.

Research communities

from multiple heterogeneous identity providers

- services
- Support for IdPs: SAML2.0, OIDC
  - Support for SPs: SAML2.0, OIDC
  - Connection with the CILogon TTS
  - Enables multiple federated authentication sources using different technologies
  - Direct integration with the communities AAI services
  - User registration portal to allow accounts-linking
  - Provisioning to SPs of an EGI User UID

For the user the feature is transparent: as soon as their IdP is integrated with the proxy, they are redirected by the service to their own IdP. Once integrated the IdP with the proxy, all the services using the IdP proxy will be available.

The service providers will get all the AuthN/AuthZ information needed from the IdP Proxy (in form of attributes), without the need to deal with individual IdPs.

Other components that can be attached to the IdP Proxy are credential translation services and attribute authorities.

Archive Storage

Storage

Production

Archive Storage allows you to store large amounts of data in a secure environment freeing up your usual file storage resources. Access to the archive can be given at an individual, small group or large collaboration level.

EGI and EGI Federation participants, Research communities, SME/Industry

Archive data and preserve it for future use in a secure environment

- Stores large amounts of data for long-term retention
- Long-term retention
- Reliable and interoperable
- Recovery of useful space
- Add standards supported

Policy-bas

All the files in Archive Storage are easily located and retrieved to and

from different types of platforms.

The data on Archive Storage can be replicated across several storage sites, thanks to the adoption of interoperable open standards . More copies of your archives mean fewer opportunities for disaster.

Online Storage

Storage

Production

Online Storage allows you to store data in a reliable and high-quality environment and share it across distributed teams. Your data can be accessed through different standard protocols and can be replicated across different providers to increase fault-tolerance.

Online Storage gives you complete control over the data you share and with whom.

Store, share and access your files and their metadata on a global scale

- -Assign global identifiers to files
- Access highly-scalable storage from anywhere
- Control the data you share
- Organise your data using a flexible hierarchical structure

Policy-bas  
Market-dri

Training  
Infrastructure

Training

Production

The Training Infrastructure offers cloud compute and online storage for training activities. It is useful to organise onsite tutorials or workshops and online training courses or as a platform for self-paced learning.

For example, with the Training infrastructure trainers can

EGI and EGI Federation participants, Research (Infrastructure) collaboration, Large research groups, Universities, SME/Industry

Dedicated cloud compute and online storage for training and education

The tutor creates the images and either deploys virtual machine images before the course (so the users see only what is provided with the image, or let the students deploy the images during the course (if the image deployment is what students should learn).

The images that tutors create can be any own image, or can be

Policy-bas

create and deploy any custom virtual machine images for the students. A library of existing virtual machines images is offered so that tutors can customise and use these according to their specific needs. This allows easy deployment, sharing and reuse of course materials.

a custom contextualisation script for an existing image provided in the virtual machine image library AppDB. In the latter case the contextualisation will trigger the deployment of specific software into the virtual machine after it is instantiated.

The Training Infrastructure uses the same high- quality computing and storage environment that EGI provides to researchers.

FitSM

Training

Production

FitSM is a lightweight standards family aimed at facilitating service management in IT service provision, including federated scenarios. FitSM training aims at providing those involved in operating federated infrastructures with the professional skills they need in order to effectively manage their services.

Any organisation that delivers IT services

Learn how to manage IT services with a pragmatic and lightweight standard

Formal certificate backed by TÜV SÜD for those passing the exam including a unique certificate license number

Market-ba

FitSM professional training is certified by TÜV SÜD, a global leader in standardisation and certification. The qualification programme offers three training levels:



Foundation,  
Advanced and  
Expert.