## **OGC Standardization Efforts to Enable**

## Large Scale In-Cloud Processing of Earth Observation Data

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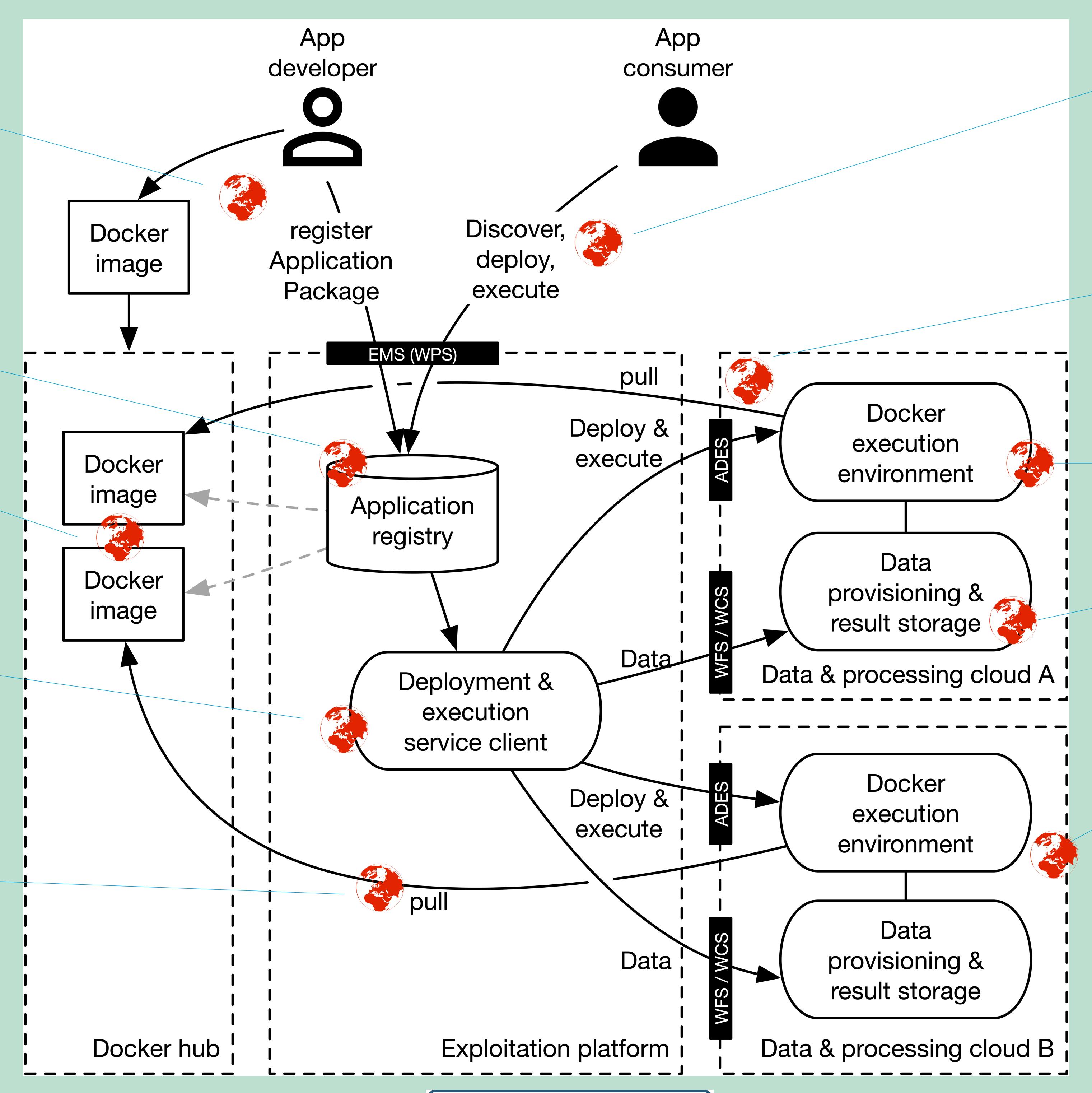
Application developers provide their applications as a Docker images and register them a the exploitation platform using OGC emerging standard Application Package

All applications are registered at the application registry. The registry is part of the exploitation platform, which provides an OGC WPS interface called Exploitation Management Service (EMS)

All applications are stored on private or public Docker hubs

The exploitation platform provides an ad-hoc deployment and execution service. The service is accessible via an OGC WPS interface

Docker images are pulled from the data & processing clouds and then deployed close to the physical location of the data to minimize transport costs



Making location count.

Application consumers discover applications at the exploitation platform through OGC Catalog Services

Earth Observation data is stored on cloud platforms that provide processing capacities in addition to the data storage. The platform is accessible via an OGC WPS instance called Application Deployment and Execution Service (ADES)

Each cloud platform provides a Docker Execution environment

Once data has been processed, results will be made persistently available at standardized OGC WFS or WCS interfaces

The architecture allows any number of cloud platforms to co-exist



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