



# AKKA

## *Insights into the Technical Aspects of the InGeoCloudS platform*

### *APPLICATION INTEGRATION*

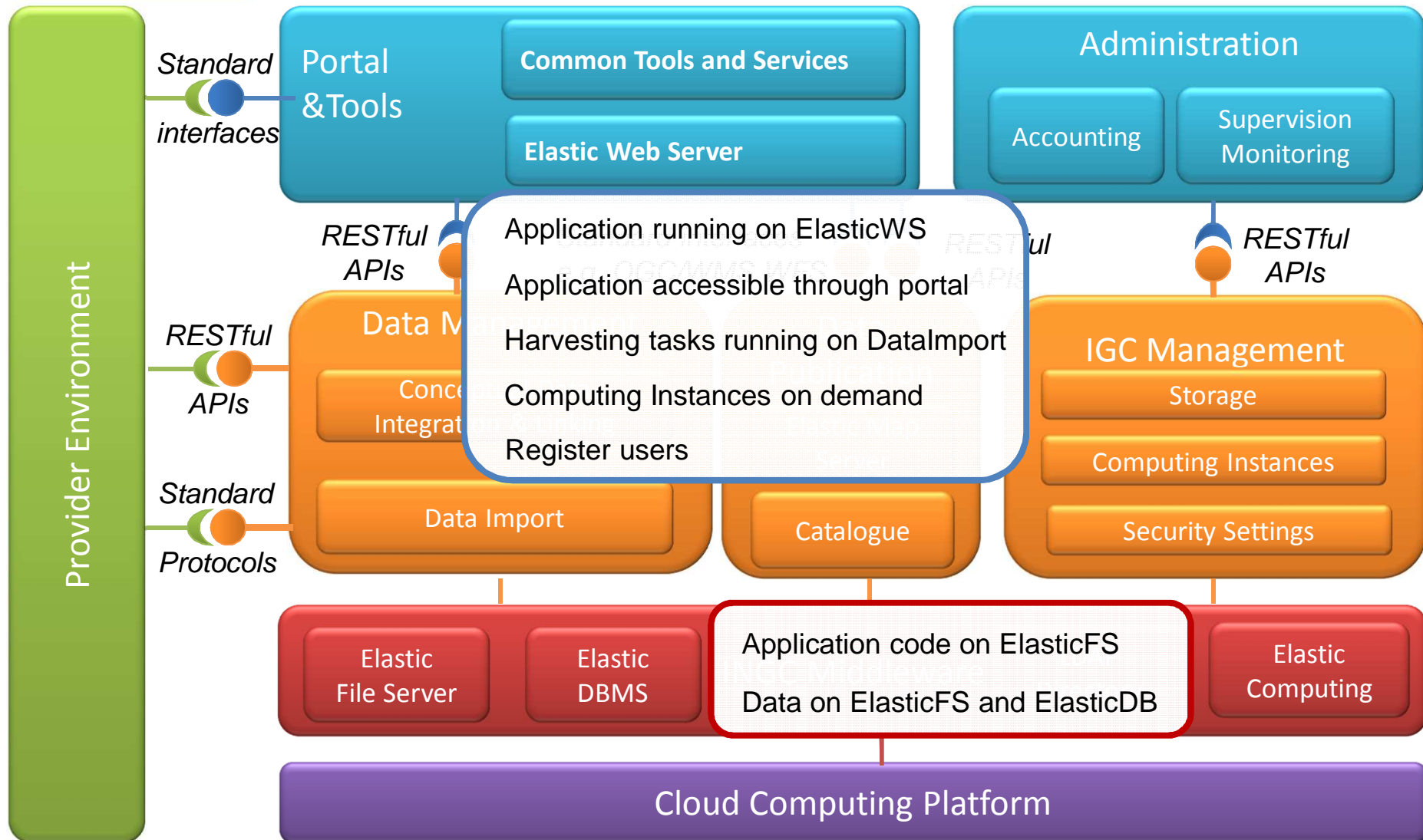
Experts Workshop

Nov. 21st, 2013



**InGeoCloudS**  
Inspired GEOdata CLOUD Services

# Application Integration



# Workspace

- Workspace is only for data provider
  - Automatically created when a new data provider is created,
- Workspace stored on ElasticFS
  - Accessible on all instances of the platform.
- Location is /mnt/glusterfs/<PROVIDER>/workspace
  - [Get information with ElasticFS API](#)
- Workspace is your home directory
  - SSH or SCP using your credentials (provided SSH is allowed.)

# Workspace

- Predefined file hierarchy:
  - `/workspace/public_web`
- Root is not writable:
  - Security constraint from FTP server (vsftp)
- `/workspace` is your
  - Manage file hierarchy as you want
- except `/workspace/public_web`
  - Use to store your Web application code

# Database

- Dedicated database only for data provider
  - Optional -> must be manually created by the administrator.
- Dedicated database comes with a dedicated technical user
  - Dedicated user has administration privileges on the database.
- Dedicated database is your
  - Manage your database as you want: create schema, tables, users.
- Dedicated database stored on ElasticDB
  - Accessible from all instances of the platform.

- RESTful services for database access:
  - Get connection information on a provider's database (Administrator, Data provider)
- Only accessible inside the private network
  - Not accessible from Internet,
  - Possibility to open access from external (Internet)
- We plan to improve the API and provide an application
  - Manage users, rights and schema,
  - Manage access policy (internal, external, authentication mode)

# Web Application

- Web application automatically running in ElasticWS
  - If uploaded to /workspace/public\_web
  - Supported languages: PHP, ?
- Web application not automatically accessible
  - Must be integrated in the portal by Administrator.



# Web GIS Application



- Applications with background map and a WMS layer
  -
- Integrate your WMS layer
  - `igcsModule` module provided by the INGeoCloudS portal,
  - Must be integrated in the portal by Administrator.

# Computing Instance on demand

- Possibility to request for a dedicated instance
  - E.g for running heavy process,
- Computing instance must be ephemeral
  - For process running occasionally or periodically,
  - Costs are yours.
- RESTful services to manage computing instances:
  - [Geo Processing Service \(Administrator, Data Provider\)](#)

# Harvesting

- RESTful services to manage harvesting tasks:
  - CRUD operation on tasks (Data Provider)
- Harvesting application provided the Data Provider Toolkit



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# Registered Users



- RESTful services to manage registered users:
  - CRUD operation on registered users (Data Provider)
- Registered Users application provided by the Data Provider Toolkit

