

DataNet - GridSpace Data Management Framework

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» providing means for **ad-hoc metadata model creation** and deployment of corresponding storage facilities (without specialized knowledge of metadata notations such as RDF, XML or OWL)

» creating a research space for **metadata model exchange and discovery** with associated data repositories with access restrictions in place

» supporting **different types of storage sites** and **data transfer protocols**

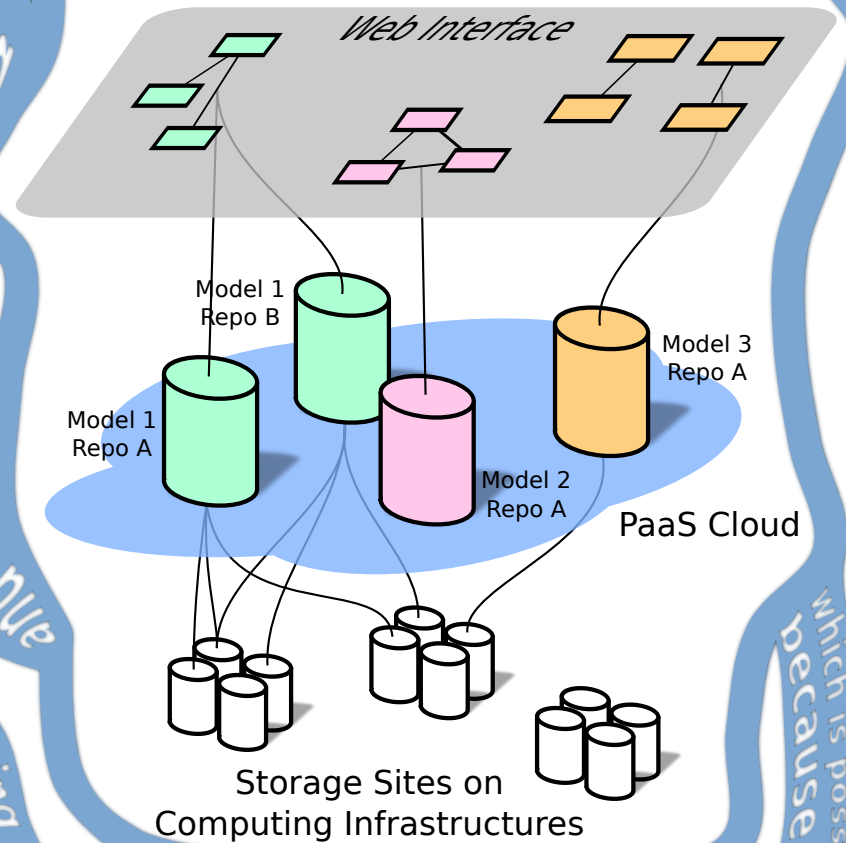
» custom CloudFoundry environment was setup as a PaaS platform to ensure quick deployments of required application and storage services

» preliminary schema for metadata model creation was elaborated and is being evaluated for NoSQL storage service MongoDB

» prototypes of storage site access libraries were implemented and tested

» build and deploy a web-based tool to create, discover and manage data models
» integrate storage site access libraries in a web application for convenient data access
» support various types of metadata storage services to fulfill different application requirements

» **Web Interface** is used by users to create, extend and discover metadata models
» model repositories are deployed in the **PaaS Cloud** layer for scalable and reliable access from computing nodes through REST interfaces
» data items from **Storage Sites** are linked from the model repositories



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