Galaxy in MetaCentrum
integration

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Galaxy in general

- open source scientific work-flow system
- web server based front-end for bioinformaticians (you can run computations through web browser)
- lightweight, modularly written in python
- tools are managed by wrappers and allow pipe-lining
- running analyses in background
- primarily designed for single user and run in VM
Cloud solution

Be default
- primarily for Amazon Elastic Compute Cloud (EC2) and Simple Storage Service (S3)
- CloudMan deployment tool

In MetaCentrum
- MetaCloud testbed with OpenNebula
- we can provide dedicated cloud resources
- we can prepare VMs with pre-set services (application wrappers, storages, ...) or users can have own images
- user is completely managing VM
one Galaxy front-end *per* computation and/or user
- user is completely managing Galaxy (settings, users and data)
- not-persistent
- we can prepare service’s settings (application wrappers, ...), but administration of Galaxy is on user
- (not supported but still possible to use)

one Galaxy front-end for all users (or *per* VO/project)
- MetaCentrum accounts (accounting, security)
- computations through PBS (efficient resources use)
- we will prepare everything (frontend, ...), integration is ongoing
- *(currently preferred approach)*

Combinations of previous approaches and solutions are possible too.
Questions/comments?

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