**What is galaxy-docker-ansible?**

Galaxy-docker-ansible is an ansible playbook directory containing all the roles to install the bgruening/docker-galaxy-stable image on a ubuntu server.

**Why galaxy-docker-ansible?**

Using the docker-galaxy-stable image simplifies running a galaxy server. However the container must be set up using the exact settings you want. Doing this from the command line is cumbersome, and using a script is not scalable.

Galaxy-docker-ansible leverages the power of ansible to set up a galaxy instance using the docker-galaxy-stable image. It allows you to set all the necessary variables and start the galaxy instance with just one command.

**Features**

- Fully automated setup and installation of a galaxy instance
- Easy configuration
- Integration with Active Directory LDAP server
- Installs on a Ubuntu 16.04 machine

**Work in progress**

- Automatic integration and connection with computer clusters running SGE via DRMAA API
- Support for multiple distributions
- Better data provision procedure (work with ephemeries upstream)
- Find out how to use the ProFTPD server in a secure way
- Automating the setting of an admin api key

**Acknowledgements**

Galaxy-docker-ansible is dependent on work done in the docker-galaxy-stable project. It also depends on the ephemeries bootstrapper to install tools and genomes.

Docker-galaxy-stable: https://github.com/bgruening/docker-galaxy-stable

Ephemeries: https://github.com/galaxyproject/ephemeries

**Links**

Documentation: http://galaxy-docker-ansible.readthedocs.io/

Github page: https://github.com/LUMC/galaxy-docker-ansible

NL Galaxy Portal (Initiative of the DTL Galaxy Interest Group): https://choosethegalaxy.nl/

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**Virtual machine**

A virtual machine provisioned by galaxy-docker-ansible

A docker container based on the docker-galaxy-stable image is running on the VM. The docker container has access to part of the filesystem on the host.

In this filesystem the database, tools, user data, reference genomes and galaxy configuration files are kept.

This makes maintenance easier. When galaxy releases a new version, the container can be swapped out for a container based on a newer version of the docker-galaxy-stable image.

**The DTL Galaxy interest group**

The Dutch Techcentre for Life Sciences (DTL) is a public-private partnership of more than 50 life science organisations in the Netherlands. The DTL Galaxy Interest Group aims to:

- Build Galaxy instances to showcase project deliverables and tools, pipelines built by the bioinformatics community in the Netherlands
- Provide professional IT infrastructure and Galaxy core development support to Institute and project specific Galaxy servers
- Coordinate and support education activities using Galaxy at BSc, MSc and postgraduate levels

Galaxy-docker-ansible aids in these goals by providing an easy way to configure, set up and provision Galaxy instances. The NBIC Galaxy server at galaxy.nbic.nl is an example of a server set up using galaxy-docker-ansible.