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Compute Resources

Have questions or need help with compute, including activation or issues? Follow this link.

Docker Usage

The information on this page assumes that you have a knowledge base of using Docker to create images and push them to a repository for use. If you need to review that information, please see the links below.

https://washu.atlassian.net/wiki/spaces/RUD/pages/1705115761/Docker+and+the+RIS+Compute1+Platform?atlOrigin=eyJpIjoiNzc4YTZjNjIxYmQwNGI3OTk4M2Q0MV

https://washu.atlassian.net/wiki/spaces/RUD/pages/1864892726/Docker+Basics+Building+Tagging+Pushing+A+Custom+Docker+Image?atlOrigin=eyJpIjoiMTVjMjNIMV

Software Included

vim (https://github.com/vim/vim)

Globus CLI (https://docs.globus.org/cli/installation/)

virtualenv (https://virtualenv.pypa.io/en/latest/)

Development Notes

The Globus CLI is incompatible with Python 2.7 (Python 2.7 should no longer be used in general), as thus uses Python3.

Dockerfile

> "$HOME/.bashrc" #Install Globus CLI RUN pip install --upgrade globus-cli #Install virtualenv RUN pip install virtualenv #Pull in necessary automation examples RUN git clone https://github.com/globus/automation-examples WORKDIR automation-examples RUN chmod +x cleanup_cache.py cli-sync.sh globus_folder_sync.py share-data.sh share_data.py #Run and install requirements for virtualenv RUN virtualenv venv RUN . venv/bin/activate RUN pip install -r requirements.txt]]>

Requirements for Usage in RIS

The Globus CLI needs particular environment variables to be able to function and so you need to make sure you use the LSF variable to turn off the override of environment variables.

Once the job is running you'll need to start up Globus with the login command.

This will generate commands for you to follow to go to the web portal for Globus to connect your account with the command line.

In all future instances of using the Globus CLI you'll need to be in the directory you started the Globus CLI job in the first time for it to function properly. If not you'll get an error.

Once the transfers are submitted to Globus via the CLI commands, you do not need to keep the interactive job running.

For more information on using the Globus CLI see our documentation located here.