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Compute Resources

Have questions or need help with compute, including activation or issues? Follow [this link.](#)

[User Agreement](#)

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=eyJpIjoiNzc4YTZjNjIxYmQwNGI3OTk4M2Q0MW](https://washu.atlassian.net/wiki/spaces/RUD/pages/1705115761/Docker+and+the+RIS+Compute1+Platform)

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

Image Details

Docker image hosted at ghcr.io/washu-it-ris/relion.

Software Included:

Relion (https://www3.mrc-lmb.cam.ac.uk/relion//index.php/Main_Page)

CTFFIND (https://grigorieflab.umassmed.edu/ctffind4)

GCTF (hhttps://www2.mrc-lmb.cam.ac.uk/research/locally-developed-software/zhang-software/)

MotionCor2 (https://emcore.ucsf.edu/ucsf-motioncor2)

Requirements for Usage in RIS

Interactions GUI sessions are done via the `Custom noVNC Image` application in Open On Demand (OOD).

You can find out more about OOD here: [Compute Quick Start](#).

There are two fields beyond the basics that will need information specific to this image.

Environment Variables

Docker Image

Environment Variables

This information should be space separated in the field.

Optional variables

GUI display size. This can be changed with the following variables.

Width default: 1024

Height default: 768

- DISPLAY_HEIGHT=]]>

Docker Image

]]>

Fill out the rest of the fields with the appropriate information (explained in the quick start).

Launch the job through the methods described in the quick start.

Once in an interactive relion session using the following command:

Available Versions

Current Version:

ghcr.io/washu-it-ris/relion

latest, 3.1

ghcr.io/washu-it-ris/relion

latest, 3.1