

# ESO pipelines

ESO offers pipeline software for their instruments (see <https://www.eso.org/sci/software/pipelines/>) However, installing this software directly on to the system, is usually not possible, since they don't support every version of Fedora or RedHat.

We have two methods to make this software available to users:

1. a local install on a desktop, for a specific pipeline (if supported) and
2. through apptainer containers

## Local install

Until early 2025, this was the only available method, which would work in most cases, but not all. If it works, it could be slightly easier and perhaps faster.

If you want a pipeline installed on your Linux desktop system, please request it through the [helpdesk form](#) and specify on which computer you are, and which pipeline(s) you want to have installed.

## Apptainer

We have recently adapted ESO's apptainer setup to work with our system. Apptainer is a container system, where an application runs in a specially tailored environment, possibly with tools from another Linux system, and mostly isolated from the actual operating system.

The main benefit is, that software that is supported on any Linux version, can be supported in this way. In our case this means, that the software is now available on the desktops, as well as on compute nodes and the vdesk cluster.

There are however a couple of drawbacks: it will be less efficient with CPU, memory and disk space, and you may have to pass some additional options to bypass parts of the isolation, in order to make data available to programs running in the container.

ESO's site about apptainer has some more information about usage and options, see <https://www.eso.org/sci/software/apptainer.html> (skip the part about installation if you run on Sterrewacht workstations, that has already been done for you)

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