What is EasyBuild?

EasyBuild is a software build and installation framework that allows you to manage (scientific) software on High Performance Computing (HPC) systems in an efficient way. It is motivated by the need for a tool that combines the following features:

- a flexible framework for building/installing (scientific) software
- fully automates software builds
- divert from the standard configure / make / make install with custom procedures
- allows for easily reproducing previous builds
- keep the software build recipes/specifications simple and human-readable
- supports co-existence of versions/builds via dedicated installation prefix and module files
- enables sharing with the HPC community (win-win situation)
- automagic dependency resolution
- retain logs for traceability of the build processes

You can see more information in the official project website: https://easybuild.readthedocs.io/

Requirement

- Python: 2.6 or 2.7, or Python 3.x (>= 3.5).

1. Only EasyBuild v4.0 (or newer) is compatible with Python 3, earlier EasyBuild releases require Python 2.
2. only EasyBuild versions prior to v4.0 require vsc-base. See required Python packages for older EasyBuild versions

- modules tool: Tcl(/C) environment modules or Lmod, see Required modules tool for more details. See too Install Lmod

Install

Easybuild cannot be installed with the root user, for this reason it is necessary to create a user account that will take care of using it

To create the user account do the following:

```
adduser easybuild
```

Now it is necessary to execute the Easybuild installation process with the user created previously.

```
su - easybuild
```

```
EASYBUILD_PREFIX=$HOME/.local/easybuild

# download script
curl -O
https://raw.githubusercontent.com/easybuilders/easybuild-framework/develop/eas
ybuild/scripts/bootstrap_eb.py

# bootstrap EasyBuild
python bootstrap_eb.py $EASYBUILD_PREFIX

# update $MODULEPATH, and load the EasyBuild module
module use $EASYBUILD_PREFIX/modules/all
module load EasyBuild
```

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