

# User customization with module

Example of environment configuration for *Octave* application installed on the example [Example of a User application Installation](#) page.

## Login on the submit node

Login on the cluster submission node, check the page [How to Access](#) for more information:

```
$ ssh -l <username> hpc7.ncg.ingrid.pt
[username@hpc7 ~]$ _
```

## Select a directory to store your modules environments

In this example we will use `~/.module` on the user *Home* directory:

```
[username@hpc7 ~]$ mkdir .module
```

## Create a modules resource file

Create a file named `~/.modulerc` with the following content:

```
[username@hpc7 ~]$ cat .modulerc
#%Module1.0#####
#####
##
## User prefer modules at session startup
##
module use $env(HOME)/.module
```

## Create a configuration file for Octave application

Lets create a simple configuration file for the **Octave** application installed on the *Home* directory:

```

[username@hpc7 ~]$ mkdir .module/octave
[username@hpc7 ~]$ cat .module/octave/5.1.0
#%Module1.0
##
## octave/5.1.0 modulefile
##

proc ModulesHelp { } {
    global version
    puts stderr "\tSets up Octave"
    puts stderr "\n\tVersion $version\n"
}

module-whatis "Sets up Octave"

set version 5.1.0
set modroot /home/hpc/jmartins/soft/octave/$version

setenv OCTAVE_HOME $modroot
prepend-path PATH $modroot/bin
prepend-path CPATH $modroot/include
prepend-path LD_LIBRARY_PATH $modroot/lib
prepend-path PKG_CONFIG_PATH $modroot/lib/pkgconfig

```

## Check the new modules environment

The next time you login on server you will find your environment profile available for normal usage:

```

[username@hpc7 ~]$ module avail
----- /home/hpc/jmartins/.module -----
octave/5.1.0

----- /cvmfs/sw.el7/modules/soft -----
aster-13.1.0          gromacs-4.6.7
blat-36.2             hdf5-1.8.16
....

```

## Manage your new modules environment

```
[username@hpc7 ~]$ module load octave/5.1.0
```

```
[username@hpc7 ~]$ which octave  
/home/mygroup/username/soft/octave/5.1.0
```

```
[username@hpc7 ~]$ octave  
octave:1> grid on # a GRID plot will popup  
octave:2> exit
```

```
[username@hpc7 ~]$ module unload octave/5.1.0
```

```
[username@hpc7 ~]$ which octave  
<empty>
```

## Some Links

- [Environment Modules Documentation](#)

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