R - Create and manage your own R environment

NYUAD HPC team provides a global R software environment which can be used through "Linux environment modules". However, we do not install additional R modules to the global environment. So if you need, say the "coda" module, you will need to install it in your own environment.

Step-by-step guide

Install R Modules:

1. Login Dalma.
2. (One time setup) Run this in terminal:
   
   $RECIPESDIR/localize-R.sh

3. Logout Dalma and login again.
4. Now you should be able to install R packages locally. For certain packages, gcc must be loaded before installation:

   module load gcc

Then you enter R. Run this in terminal:

   R

Then, inside R:

   install.packages('coda',lib='~/R.local')

The command above will install package coda to your local folder ~/R.local, which is in the R search path. The general formula is:

   install.packages('<package-name>',lib='~/R.local')

Remove R Modules

1. In R, if you want to remove a package called coda:

   remove.packages('coda',lib='~/R.local')

Update R Modules

1. In R, if you want to update a package called coda:
List R Modules

1. To list installed R modules

```r
installed.packages()
```

Related articles

- Perl - Create and manage your own Perl environment
- R - Create and manage your own R environment
- Python - Create and manage your own Python environment
- Bash commands quick reference
- Finding HELP on Linux