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.

**Never mix and match R versions.** E.g., to use R packages installed by Conda with the R in module system will lead to failures which are impossible to debug.

Step-by-step guide

**Install R Modules:**

2. Login Dalma.
3. Make sure you **don't** have anything related to R automatically set up. E.g., in your `.bashrc`, no `R_LIBS` is set, no specific R executable is added to `$PATH`
4. Load R module

```bash
module load R
```

Or, specify a version to load

```bash
module load R/3.4.1
```

5. Now you should be able to install R packages locally. For certain packages, gcc must be loaded before installation:

```bash
module load gcc
```

Then you enter R. Run this in terminal:

```bash
R
```

Then, inside R:

```r
install.packages('coda')
```

6. (One time only) It might ask you to install the package in a personal folder. Say yes. The following is a sample message. It will vary from different R versions you have loaded.
If in any doubt, remove the folder R personal library folder and start from scratch.

Remove R Modules

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

   ```r
   remove.packages('coda')
   ```

Update R Modules

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

   ```r
   update.packages('coda')
   ```

List R Modules

1. To list installed R modules

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

Related articles

- Use GPU nodes in Dalma
- Access Dalma
- Mount $WORK with SSHFS
- Python - Create Your Own Environment using Anaconda
- Enable X11 Forwarding on Mac OS X