

# Hands-on

## 1. Configuring ecFlow



# ecFlow configuration

## Documentation

[https://earth.bsc.es/gitlab/es/startR/-/blob/master/inst/doc/practical\\_guide.md#configuring-startR](https://earth.bsc.es/gitlab/es/startR/-/blob/master/inst/doc/practical_guide.md#configuring-startR)

### STEP 1: Open a terminal on nord3:

- have you needed to enter a password?
  - No → you can skip this step
  - Yes → follow this slide

**Passwordless to  
Nord 3**

1. Open a new terminal in your workstation home, run **ls .ssh**  
  
> do you see a file called **id\_rsa.pub**?
  - No → Run **ssh-keygen -t rsa**  
Copy it, and check if the file appear now
  - Yes → open the file, and copy the key
2. Go to the terminal on Nord3, run **ls .ssh**  
> do you see a file called **authorized\_keys**?
  - No → Run **mkdir .ssh/authorized\_keys**
  - Yes → Go to next line  
> Open the file **vim .ssh/authorized\_keys**  
> Copy the key → Press 'i', then, CTRL + V (save with ':wq')
3. Close the Nord3 terminal and open a new one.

**Have you needed to enter a password?**

**Note:** If you don't have a Nord 3 account go to the employees portal and do a request.

<https://webapps.bsc.es/employee/>

# ecFlow configuration

## Documentation

[https://earth.bsc.es/gitlab/es/startR/-/blob/master/inst/doc/practical\\_guide.md#configuring-startR](https://earth.bsc.es/gitlab/es/startR/-/blob/master/inst/doc/practical_guide.md#configuring-startR)

**Nord3 Nickname**

STEP 2: When connecting to Nord 3,

> Do you use [bsc32XXX@nord3.bsc.es](mailto:bsc32XXX@nord3.bsc.es)?

- No, I use a shortcut (e.g.: nord3) → you can skip this step
- Yes, I use that line → follow this slide

1. Go to the terminal in your workstation home, run **ls .ssh**

> do you see a file called **config**?

- No → Run **mkdir .ssh/config**
- Yes → Go to next line

> Open the file **vim .ssh/config**

> Press 'i', then, add the following content

```
Host nord3
  HostName nord3.bsc.es
  User bsc32XXX
  IdentityFile ~/.ssh/id_rsa
  ForwardX11 yes
```

> Edit it with your user (save with ':wq')

2. Close the Nord3 terminal and open a new one by typing **ssh nord3**

**Has it worked without needing a password?**

## Documentation

[https://earth.bsc.es/gitlab/es/startR/-/blob/master/inst/doc/practical\\_guide.md#configuring-startR](https://earth.bsc.es/gitlab/es/startR/-/blob/master/inst/doc/practical_guide.md#configuring-startR)

### Earth modules on Nord 3

#### STEP 3:

> Do you have the Earth modules installed in Nord3?

- Yes, I use them → you can skip this step
- No, I don't know what is that → follow this slide

1. Go to the terminal in Nord 3, open .bashrc → Run **vim .bashrc**

> do you see the following lines?

```
if [ $BSC_MACHINE == "nord3" ]; then
  source /gpfs/projects/bsc32/software/modules_supp/init_modules.sh
  export PATH=/apps/modules/3.2.10/Modules/3.2.10/bin/:$PATH
  module use /gpfs/projects/bsc32/software/suselinux/11/modules/all
  module unload /apps/modules/modulefiles/applications
  module unload /apps/modules/modulefiles/applications_bis /apps/modules/modulefiles/compilers
  module unload /apps/modules/modulefiles/tools /apps/modules/modulefiles/libraries
  module unload /apps/modules/modulefiles/environment /apps/modules/PRACE
fi
```

- No → Press 'i', then, CTRL + V (save with ':wq')
- Yes → Next slide

# ecFlow configuration

## Documentation

[https://earth.bsc.es/gitlab/es/startR/-/blob/master/inst/doc/practical\\_guide.md#configuring-startR](https://earth.bsc.es/gitlab/es/startR/-/blob/master/inst/doc/practical_guide.md#configuring-startR)

**STEP 4: Open a workstation terminal using `ssh -XY`**  
> Load the following modules      `module load ecFlow R`  
> Open ecFlow by running          `ecflow_ui &`

**Open ecFlow and  
configure it**

1. On the top of the window, look for this icon and click it



2. A new box will open, look for 'Add server' and click it

**+ Add server**

3. Fill the new box with your information

Your info →

Your info →

Mandatory number →

**Edit server properties**

Name: bscearth327

Host: bscearth327

Port: 5678

Favourite: ☐

OK Cancel

4. Press 'OK'

**Done! We can run a  
startR on Nord3**