

## FAQ

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This page will try to answer the most common questions about WRF4G.

## Failed connection to gwd

If you execute `wrf4g_submit` and see this error, you will probably has GridWay in *Stopped* status:

```
[user@mycomputer~]$ wrf4g_submit -e test
connect(): Connection refused
FAILED: failed connection to gwd
```

In order to solve the problem, first, you have to check out the `wrf4g_framework` status.

```
[user@mycomputer~]$ wrf4g_framework status
GridWay Stopped
MySQL Stopped
```

Then you have to execute `wrf4g_framework start`:

```
[user@mycomputer~]$ wrf4g_framework start
Starting GridWay..... OK
Starting MySQL..... OK
```

## How can I reconfigure the features of my experiment ?

If you want to reconfigure the features of one experiment and you execute `wrf4g_prepare`, you will probably see:

```
[user@mycomputer~]$ wrf4g_prepare
Warning: You are using resources.wrf4g located in the /home/carlos/WRF4G/etc/ directory.
Experiment already exists
```

In order to do it, you need to execute `wrf4g_prepare --reconfigure`. In the example below, we are going to extend the `end_date` of one experiment.

```
[user@mycomputer~]$ cat experiment.wrf4g | grep "end_date=\""
end_date="2011-08-30_00:00:00"

[user@mycomputer~]$ cat experiment.wrf4g | grep "end_date=\""
end_date="2011-09-01_00:00:00"

[user@mycomputer~]$ wrf4g_prepare --reconfigure
Warning: You are using resources.wrf4g located in the /home/carlos/WRF4G/etc/ directory.
Preparing namelist...
WRFV3/run/namelist.input
WRF Check Warning: CAM radiation selected but paerlev/levsiz/cam_abs_dim1/cam_abs_dim2 was not set. Fixing...
WRF Check Warning: radt is shorter than dx (0.500000)

---> Single params run
---> Continuous run
    ---> cycle_chunks: test 2011-08-28_12:00:00 2011-09-01_00:00:00
        ---> chunks 1: test 2011-08-28_12:00:00 2011-08-29_00:00:00
        ---> chunks 2: test 2011-08-29_00:00:00 2011-08-29_12:00:00
        ---> chunks 3: test 2011-08-29_12:00:00 2011-08-30_00:00:00
        ---> chunks 4: test 2011-08-30_00:00:00 2011-08-30_12:00:00
        ---> chunks 5: test 2011-08-30_12:00:00 2011-08-31_00:00:00
        ---> chunks 6: test 2011-08-31_00:00:00 2011-08-31_12:00:00
        ---> chunks 7: test 2011-08-31_12:00:00 2011-09-01_00:00:00
```

## What should I do if I want to resubmit an experiment ?

If one experiment has finished with an error and you want to rerun the experiment again. You have to execute:

```
[user@mycomputer~]$ wrf4g_submit --rerun -f -e test1
Submitting realization: "test1"
    Submitting Chunk 1:      2011-08-28_12:00:00      2011-08-29_00:00:00
    Submitting Chunk 2:      2011-08-29_00:00:00      2011-08-29_12:00:00
    Submitting Chunk 3:      2011-08-29_12:00:00      2011-08-30_00:00:00
```

### What should I do if I want to rerun a specific chunk of a realization?

Imagine, you want to resubmit the chunk number 1 of the realization **test2**. In this case, it is highly recommended that you use the option `--dry-run` of `wrf4g_submit` command before you submit your chunk in order to make sure you are submitting that chunk an nothing else.

```
[user@mycomputer~]$ wrf4g_submit --dry-run --rerun -c 1 -f -r test2
Submitting realization: "test2"
    Submitting Chunk 1:      2011-08-28_12:00:00      2011-08-29_00:00:00

[user@mycomputer~]$ wrf4g_submit --rerun -c 1 -f -r test2
Submitting realization: "test2"
    Submitting Chunk 1:      2011-08-28_12:00:00      2011-08-29_00:00:00
```