

## Introduction

WRF4G is a framework for executing and monitoring the WRF Modeling System (see [?this presentation](#) for an introduction to WRF) on Distributed Computing Infrastructures(DCIs). It provides a flexible and easy way of designing complex experiments involving many simulations (multiple start/end dates, multi-parametric simulations, long climate runs, ...). The monitor allows a precise control of the experiment's state, where broken simulations are automatically detected and relaunched at the next submission.

Given a list of computing resources that the user can access, WRF4G submits the experiment to them according to the experiment needs. Users can configure different DCIs such as local PCs, stand-alone servers, clusters, grid resources, etc. The output files are going to be stored depending on the resources used to run the simulations.

The following picture shows the main WRF4G components (see the following [?presentation](#) for further information) and the interaction among them.

## Documentation

- [Requirements](#)
- [Installation guide](#)
- [Command line interface](#)
- [How to configure computing resources](#)
  - [How to configure an experiment](#)
    - [How to create WRF geographical domain](#)
    - [How to create preprocessor](#)
    - [How to create postprocessor](#)
    - [What is wrf4g\\_files directory?](#)
- [How to configure WRF in WRF4G 2.0](#)
- [How to run a demo experiment](#)
- [How to run a reforecast experiment](#)
- [Advanced configuration](#)
- [FAQ](#)

## Problems

If you have any problems, please [?send us a ticket!!](#)