Wikiprint Book

Title: gwd.conf file

Subject: TracMeteo - WRF4GGridConfiguration

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Table of Contents

gwd.conf file

WRF4G Grid Resources are currently defined by [?GridWay Drivers](). Therefore, if you want to access to Grid Resources, you must configure **gwd.conf**. This file is located under `$WRF4G_LOCATION/opt/drm4g_gridway/etc` directory.

WRF4G GridWay Drivers Available

The following drivers are included in **WRF4G**:

- Information Driver:
  - BDII (gw_im_mad_bdii)
- Transfer Driver:
  - Dummy Transfer driver (gw_tm_mad_dummy)
- Execution Drivers:
  - GRAM2 (gw_em_mad_gram2)
  - CREAM (gw_em_mad_cream)

Required Middleware

The following middlewares should be installed to use the corresponding drivers:

- Globus Toolkit 2 and above, and gLite 3.1 (GRAM2-based)
- UMD1 or UMD2 (CREAM-based)

Configuration options Divers

Next steps describe a specific configuration of drivers for **Gisela Infrastructure**. However, the examples below can be applied to another VO.

In file `$WRF4G_LOCATION/opt/drm4g_gridway/etc/gwd.conf`:

```
# Example MAD Configuration for GISELA
# GT2
IM_MAD = gisela_gt2:gw_im_mad_bdii:-q (GlueCEAccessControlBaseRule=VO\:prod.vo.eu-eela.eu)(GlueCEImplementationName=LCG-CE
EM_MAD = em_gt2:gw_em_mad_gram2::rsl_nsh
TM_MAD = tm_gt2:gw_tm_mad_dummy:-u gsiftp\://ui01.macc.unican.es

# CREAM
IM_MAD = gisela_cream:gw_im_mad_bdii:-q (GlueCEAccessControlBaseRule=VO\:prod.vo.eu-eela.eu)(GlueCEImplementationName=CREA
EM_MAD = em_cream:gw_em_mad_cream.py::jdl
TM_MAD = tm_cream:gw_tm_mad_dummy:-g
```

There are two options for the configuration of IM MAD:

- -q: it is possible to configure a GridWay instance to only use queues authorized to your VO by filtering them.
- -s: information server in a hierarchical configuration.

```
IM_MAD = glisela_gt2:gw_im_mad_bdii:-q (GlueCEAccessControlBaseRule=VO\:prod.vo.eu-eela.eu)(GlueCEImplementationName=LCG
```

There are two options for the configuration of the TM MAD:

-g: starts a [? GASS]() server for each user.

```
TM_MAD = tm_gt2:gw_tm_mad_dummy:-g
```

-u: specifies the URL of a [? GridFTP]() server running in the client. For example:

```
TM_MAD = tm_gt2:gw_tm_mad_dummy:-u gsiftp\://ui01.macc.unican.es
```

For more information about MAD configuration see [?GridWay Configuration Guide](#)

> After modifying `gwd.log`, in order to make changes effective, you have to execute:

```
wrf4g_framework reload
```

Accessing the VOMS servers

In order to use the Grid Resources, users should iniatilize the proxy through voms server:

```
[user@ui~]$ voms-proxy-init --voms prod.vo.eu-eela.eu
Cannot find file or dir: /oceano/gmeteo/users/carlos/.glite/vomses
Enter GRID pass phrase:
Your identity: /DC=es/DC=irisgrid/O=unican/CN=josecarlos.blanco
Creating temporary proxy ........................................ Done
Contacting  voms.eela.ufrj.br:15003 [/C=BR/O=ICPEDU/O=UFF BrGrid CA/O=UFRJ/OU=IF/CN=host/voms.eela.ufrj.br] "prod.vo.eu-ee
Creating proxy .................................. Done
Your proxy is valid until Tue Aug 23 22:15:06 2011
```