

Whole site: How to enable a VO

Prepare the configuration files

Consider for example to enable the VO "<voname>".

Site configuration files structure:

Please **pay attention** to the general information on site configuration files structure described in IGI YAIM configuration files .

You have to handle the following configuration files.

your-site-info.def

* Add "<voname>" to "VOS" variable in "your-site-info.def". For example:

```
VOS="... <voname> ..."
```

* Check that the variable "ALL_VOMS_VOS" is aligned with the content deployed with the latest template version of "ig-site-info.def". The most recently added VOs should be listed there.

* Add "<voname>" to the related queue settings inside the "_GROUP_ENABLE" variable in "your-site-info.def". For example (we suppose to use "grid" queue):

```
GRID_GROUP_ENABLE="... &lt;voname&gt; ..."
```

* Edit the other VO settings in one of the following ways:

1) VO setting inside "your-site-info.def"

Usually for these settings the default values placed at the end of "your-site-info.def" may be used:

```
VO_<VONAME>_SW_DIR=$VO_SW_DIR/<voname>
VO_<VONAME>_DEFAULT_SE=$CLOSE_SE_HOST
VO_<VONAME>_STORAGE_DIR=$CLASSIC_STORAGE_DIR/<voname> (needed only for SE Classic)
VO_<VONAME>_VOMS_SERVERS="vomss://<voms-server>.<voms-domain>:8443/voms/<voname>?/<voname>"
VO_<VONAME>_VOMSES="<voname> <voms-server>.<voms-domain> <voms-port> <voms-server-DN> <voname>"
```

2) VO settings inside dedicated vo.d/ file

* Create "vo.d/<voname>" file inside your site configuration directory (here called "/") copying it from "/opt/glite/yaim/examples/siteinfo/vo.d/" if it exists (now this approach is used only for new //dns-like// VO).

For example for "enmr.eu" VO (note that variable names don't contain the VO name):

```
$ cat <confdir>/vo.d/enmr.eu
SW_DIR=$VO_SW_DIR/enmr
DEFAULT_SE=$CLASSIC_HOST
STORAGE_DIR=$CLASSIC_STORAGE_DIR/enmr
VOMS_SERVERS="'vomss://voms2.cnaf.infn.it:8443/voms/enmr.eu?/enmr.eu' 'vomss://voms-02.pd.infn.it
VOMSES="'enmr.eu voms2.cnaf.infn.it 15014 /C=IT/O=INFN/OU=Host/L=CNAF/CN=voms2.cnaf.infn.it enmr.
VOMS_CA_DN="'/C=IT/O=INFN/CN=INFN CA' '/C=IT/O=INFN/CN=INFN CA'"
```

your-users.conf

* Add to "your-users.conf" the users for the "<voname>" VO fitting your site's policy in users management (range of uid and gid). You may find an **example** of the needed rows in "/opt/glite/yaim/examples/ig-users.conf".

Some useful informations are available in "/opt/glite/yaim/examples/users.conf.README".

You may also use the information you find at Whole site: How to create local users.conf and configure users .

For example for "enmr.eu" VO you could use:

```
46001:enmr001:46000:enmr:enmr.eu::
46002:enmr002:46000:enmr:enmr.eu::
46003:enmr003:46000:enmr:enmr.eu::
...
46901:sgmenmr001:46090,46000:sgmenmr,enmr:enmr.eu:sgm:
46902:sgmenmr002:46090,46000:sgmenmr,enmr:enmr.eu:sgm:
46903:sgmenmr003:46090,46000:sgmenmr,enmr:enmr.eu:sgm:
...
46921:sgmenmrbcbr001:46091,46000:sgmenmrbcbr,enmr:enmr.eu:sgmbcbr:
46922:sgmenmrbcbr002:46091,46000:sgmenmrbcbr,enmr:enmr.eu:sgmbcbr:
46923:sgmenmrbcbr003:46091,46000:sgmenmrbcbr,enmr:enmr.eu:sgmbcbr:
...
46941:sgmenmrblrz001:46092,46000:sgmenmrblrz,enmr:enmr.eu:sgmblrz:
46942:sgmenmrblrz002:46092,46000:sgmenmrblrz,enmr:enmr.eu:sgmblrz:
46943:sgmenmrblrz003:46092,46000:sgmenmrblrz,enmr:enmr.eu:sgmblrz:
...
46961:sgmenmrcirmmp001:46093,46000:sgmenmrcirmmp,enmr:enmr.eu:sgmrcirmmp:
46962:sgmenmrcirmmp002:46093,46000:sgmenmrcirmmp,enmr:enmr.eu:sgmrcirmmp:
46963:sgmenmrcirmmp003:46093,46000:sgmenmrcirmmp,enmr:enmr.eu:sgmrcirmmp:
...
```

your-groups.conf

* Add to "your-groups.conf" the VOMS FQANs for the "<voname>" VO copying them from "/opt/glite/yaim/examples/ig-groups.conf".

Some useful informations are available in "/opt/glite/yaim/examples/groups.conf.README".

For example for "enmr.eu" VO:

```
"/enmr.eu/ROLE=SoftwareManager":::sgm:
"/enmr.eu":::
"/enmr.eu/bcbr/ROLE=SoftwareManager":::sgmbcbr:
"/enmr.eu/bcbr":::
"/enmr.eu/bmrz/ROLE=SoftwareManager":::sgmblrz:
"/enmr.eu/bmrz":::
"/enmr.eu/cirmmp/ROLE=SoftwareManager":::sgmrcirmmp:
"/enmr.eu/cirmmp":::

```

Extra configuration

The "enmr.eu" a particular structure is needed for sgm pool accounts, as you can see in "ig-groups.conf" and "ig-users.conf" template files. To fit these requirements some manual steps have to be performed in the software area exported to WNs. Assuming that the directory "\$VO_ENMR_EU_SW_DIR" is already present with "sgmenmr001.sgmenmr" ownership:

```
mkdir $VO_ENMR_EU_SW_DIR/BCBR $VO_ENMR_EU_SW_DIR/BMRZ $VO_ENMR_EU_SW_DIR/CIRMP
```

```
chown sgmenmrbcb001.sgmenmrbcb $VO_ENMR_EU_SW_DIR/BCBR
chown sgmenmrbrz001.sgmenmrbrz $VO_ENMR_EU_SW_DIR/BMRZ
chown sgmenmrcirmmp001.sgmenmrcirmmp $VO_ENMR_EU_SW_DIR/CIRMMP
```

Verify your installation

In order to enable the "<voname>" VO on your site you have to verify that:

- * the voms server host certificate of the newly added "<voname>" VO is installed in "/etc/grid-security/vomsdir"
- * the Certification Authority that released the voms server host certificate is installed on your hosts

Configure your nodetypes

In order to enable the newly added "<voname>" VO on your site you have to run **for each nodetype** the function you find in the table below. Naturally you can also complete reconfigure your nodetypes but this is a more expensive procedure.

For each nodetype you have to use the following command, properly replacing the profile and function's names:

```
/opt/glite/yaim/bin/yaim -r -s <confdir>/<your-site-info.def> -n <profile> -f <function>
```

Profiles	Function
BDII Site	"config_newvo_bdii_site"
BDII Top	"config_newvo_bdii_top"
CREAM	"config_newvo_cream" "config_newvo_cream_lsf" "config_newvo_cream_torque"
GRIDFTP	"config_newvo_gridftp"
HLR	"config_newvo_hlr"
LB	"config_newvo_lb"
SE_DPM	"config_newvo_se_dpm_disk" "config_newvo_se_dpm_mysql" "config_newvo_se_dpm_oracle"
SE StoRM	"config_newvo_se_storm_backend" "config_newvo_se_storm_frontend"
UI	"config_newvo_ui"
WMS	"config_newvo_wms"

```
| WN | "config_newvo_wn"  
"config_newvo_wn_lsf"  
"config_newvo_wn_torque" |
```

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