Wikiprint Book

Title: How to configure an EGI ESR VO

Subject: TracMeteo - DRM4G/ResourceConfiguration/EGIESR

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How to configure an EGI ESR VO

For configuring an EGI VO such as ESR accessed through user grid interface, follow the below steps:

Configure the `esrVO` resource. If the grid user interface has defined `LCG_GFAL_INFOSYS` and `MYPROXY_SERVER` variables, you do not have to indicate `bdii` and `myproxy_server` keys in your configuration:

```
[user@mycomputer~]$ drm4g resource edit
[esrVO]
enable         = true
communicator   = local
username       = user
frontend       = ui.meteo.unican.es
lrms           = cream
vo             = esr
bdii           = bdii.grid.sara.nl:2170
myproxy_server = px.grid.sara.nl
```

2. List and check if the resource has been created successfully :

```
[user@mycomputer~]$ drm4g resource list
RESOURCE            STATE
esrVO               enabled
```

List the CEs available on the `esr` VO:

```
[user@mycomputer~]$ drm4g host list
HID ARCH       JOBS(R/T) LRMS       HOST
0   x86_64          0/0 cream-pbs  esrVO::cream.afroditi.hellasgrid.gr
1   x86_64          0/0 cream-pbs  esrVO::ce1.ipgp.fr
2   x86_64          0/0 cream-pbs  esrVO::cr1.ipp.acad.bg
3   x86_64          0/0 cream-pbs  esrVO::sbgce2.in2p3.fr
4   x86_64          0/0 cream-pbs  esrVO::ce0.bordeaux.inra.fr
5   x86_64          0/0 cream-pbs  esrVO::cce.ihep.ac.cn
6   x86_64          0/0 cream-pbs  esrVO::ce02.ngcc.acad.bg
7   x86_64          0/0 cream-pbs  esrVO::ce01.macc.unican.es
8   x86_64          0/0 cream-pbs  esrVO::cygnus.grid.rug.nl
9   x86_64          0/0 cream-pbs  esrVO::t2ce06.physics.ox.ac.uk
10  x86_64          0/0 cream-lsf  esrVO::ce1.ts.infn.it
11  x86_64          0/0 cream-lsf  esrVO::gridce1.pi.infn.it
12  x86_64          0/0 cream-lsf  esrVO::gridce3.pi.infn.it
13  x86_64          0/0 cream-pbs  esrVO::cream02.grid.uoi.gr
14  x86_64          0/0 cream-pbs  esrVO::lapp-ce02.in2p3.fr
15  x86_64          0/0 cream-pbs  esrVO::grid002.jet.efda.org
16  x86_64          0/0 cream-lsf  esrVO::gridce4.pi.infn.it
17  x86_64          0/0 cream-lsf  esrVO::gridce0.pi.infn.it
18  x86_64          0/0 cream-lsf  esrVO::gridce2.pi.infn.it
19  x86_64          0/0 cream-pbs  esrVO::t2ce06.physics.ox.ac.uk
20  x86_64          0/0 cream-pbs  esrVO::grid0.fe.infn.it
21  x86_64          0/0 cream-pbs  esrVO::ce0.m3pec.u-bordeaux1.fr
22  x86_64          0/0 cream-pbs  esrVO::juk.nikhef.nl
23  x86_64          0/0 cream-pbs  esrVO::gridce.ilc.cnr.it
24  x86_64          0/0 cream-lsf  esrVO::cert-37.pd.infn.it
25  x86_64          0/0 cream-pbs  esrVO::cream-ce-2.ba.infn.it
26  x86_64          0/0 cream-sge  esrVO::cccreamceli09.in2p3.fr
27  x86_64          0/0 cream-sge  esrVO::cccreamceli10.in2p3.fr
28  x86_64          0/0 cream-pbs  esrVO::gazon.nikhef.nl
29  x86_64          0/0 cream-pbs  esrVO::klomp.nikhef.nl
30  x86_64          0/0 cream-pbs  esrVO::cream-ce-3.ba.infn.it
31  x86_64          0/0 cream-pbs  esrVO::cream-ce-4.ba.infn.it
```

```
32  x86_64           0/0 cream-pbs  esrVO::creamce.gina.sara.nl
33  x86_64           0/0 cream-lsf  esrVO::prod-ce-01.pd.infn.it
34  x86_64           0/0 cream-pbs  esrVO::creamce2.gina.sara.nl
35  x86_64           0/0 cream-pbs  esrVO::creamce3.gina.sara.nl
36  x86_64           0/0 cream-slur esrVO::ce3.ui.savba.sk
37  x86_64           0/0 cream-pbs  esrVO::glite-cream.scai.fraunhofer.de
38  x86_64           0/0 cream-pbs  esrVO::cream-ce02.marie.hellasgrid.gr
39  x86_64           0/0 cream-pbs  esrVO::cream-ce01.marie.hellasgrid.gr
40  x86_64           0/0 cream-pbs  esrVO::fal-pygrid-44.lancs.ac.uk
41  x86_64           0/0 cream-pbs  esrVO::hepgrid6.ph.liv.ac.uk
42  x86_64           0/0 cream-pbs  esrVO::cream-ce01.ariagni.hellasgrid.gr
43  x86_64           0/0 cream-pbs  esrVO::snf-189278.vm.okeanos.grnet.gr
44  x86_64           0/0 cream-pbs  esrVO::snf-458754.vm.okeanos.grnet.gr
45  x86_64           0/0 cream-pbs  esrVO::hepgrid5.ph.liv.ac.uk
46  x86_64           0/0 cream-pbs  esrVO::cream01.kallisto.hellasgrid.gr
47  x86_64           0/0 cream-pbs  esrVO::hepgrid10.ph.liv.ac.uk
48  x86_64           0/0 cream-pbs  esrVO::hepgrid97.ph.liv.ac.uk
```

4. Create an identity for 7 days:

```
[user@mycomputer~]$ drm4g id esrVO init
--> Create a local proxy credential ...
Insert your Grid password:
Your identity: /DC=es/DC=irisgrid/O=unican/CN=user
Creating proxy ..................................................................................... Done
Proxy Verify OK
Your proxy is valid until: Thu Feb 26 21:37:19 2015
Your identity: /DC=es/DC=irisgrid/O=unican/CN=user
Creating proxy ..................................................................... Done
Proxy Verify OK
A proxy valid for 168 hours (7.0 days) for user /DC=es/DC=irisgrid/O=unican/CN=user now exists on px.grid.sara.nl.
```

5. Check the timeleft of your identity:

```
[user@mycomputer~]$ drm4g id esrVO info
--> Grid credentials
subject  : /DC=es/DC=irisgrid/O=unican/CN=user/CN=proxy/CN=proxy
issuer   : /DC=es/DC=irisgrid/O=unican/CN=user/CN=proxy
identity : /DC=es/DC=irisgrid/O=unican/CN=user
type     : full legacy globus proxy
strength : 2048 bits
path     : /home/user/.drm4g/security/px.grid.sara.nl
timeleft : 167:57:52  (7.0 days)
```

That's it! Now, you can summit jobs to the `esr` VO. Keep in mind that you will have to renew your identity depending on the `proxy-lifetime` used.