CEMON Troubleshooting Guide

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VERY QUICK CHECKLIST:

1. To verify that your CEMon is successfully reporting to ReSS issue the following command:

condor_status -pool osg-ress-1.fnal.gov -l -constraint "GlueCEInfoHostName == \"<YOUR HOST_NAME>\""

it should report back something like the following:

> *MyType = "Machine"*
> *TargetType = "Job"*
> *Name = "tier2-02.uchicago.edu:2119/jobmanager-condor-atlas.1231388458"*
> *GlueCEInfoContactString = "tier2-02.uchicago.edu:2119/jobmanager-condor"*
> *CurMatches = 0*
> *Requirements = (CurMatches < 10)*
> *WantAdRevaluate = TRUE*
> *ReSSVersion = "1.0.6"*
> *GlueCEInfoApplicationDir = "/share/app"*
> *GlueHostProcessorModel = "Intel(R) Xeon(TM) CPU 3.00GHz"*
> *GlueCEName = "atlas"*
> *GlueCEHostingCluster = "tier2-02.uchicago.edu"*
> *GlueCEPolicyPriority = 0*
> *GlueHostProcessorVendor = "GenuineIntel"*
> *GlueHostProcessorClockSpeed = 1000*
> *GlueSiteUniqueID = "tier2-02.uchicago.edu"*
> ….

If this command returns nothing then

2. Check permission on the service certificate and key. Verify that service certificate in apache $VDT_LOCATION/apache/conf/extra/httpd-ssl.conf exists and is owned by "daemon" (or whatever daemon is running apache and tomcat)
   > *SSLCertificateFile /etc/grid-security/http/httpcert.pem*
   > *SSLCertificateKeyFile /etc/grid-security/http/httpkey.pem*

   After changing permissions restart apache and tomcat.

   Check the permission of a gridmap file (It should be set to readable to world 644). The file location is defined in $VDT_LOCATION/glite/etc/glite-ce-monitor/authconfig.xml

   After changing permissions restart apache and tomcat.

3. Check that apache and tomcat are running (use ps command) and if you have a certificate uploaded to your browser check if you can access CEMon by this link:

   https://<YOUR_HOST_NAME>:8443/ce-monitor/services/CEMonitor?method=getInfo

   If you have your DN listed in /etc/grid-security/grid-mapfile you will get back the following:

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
 - <soapenv:Body>
 - <getInfoResponse xmlns="">
 - <ns1:Info xmlns:ns1="http://glite.org/ce/monitorapij/types">
   <ns1:Version>1.7.1</ns1:Version>
   <ns1:Description>CE-Monitor_web_application</ns1:Description>
 - <ns1:Topic>
   <ns1:Name>OSG_CE</ns1:Name>
 - <ns1:Dialect>
   <ns1:Name>OLD_CLASSAD</ns1:Name>
   <ns1:QueryLanguage>RegEx</ns1:QueryLanguage>
   <ns1:QueryLanguage>ClassAd</ns1:QueryLanguage>
     </ns1:Dialect>
 - <ns1:Dialect>
   <ns1:Name>NEW_CLASSAD</ns1:Name>
   <ns1:QueryLanguage>RegEx</ns1:QueryLanguage>
   <ns1:QueryLanguage>ClassAd</ns1:QueryLanguage>
     </ns1:Dialect>
 - <ns1:Dialect>
   <ns1:Name>LDIF</ns1:Name>
   <ns1:QueryLanguage>RegEx</ns1:QueryLanguage>
   <ns1:QueryLanguage>ClassAd</ns1:QueryLanguage>
     </ns1:Dialect>
 - <ns1:Dialect>
   <ns1:Name>RAW</ns1:Name>
   <ns1:QueryLanguage>RegEx</ns1:QueryLanguage>
     </ns1:Dialect>
         ......
```

If your DN is not listed you should get something like this:

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
 - <soapenv:Body>
 - <soapenv:Fault>
   <faultcode>soapenv:Server.generalException</faultcode>
   <faultstring />
 - <detail>
 - <ns1:AuthorizationFault xmlns:ns1="http://glite.org/ce/faults">
   <MethodName>invoke</MethodName>
   <Timestamp>2007-07-02T21:33:18.156Z</Timestamp>
   <ErrorCode>0</ErrorCode>
   <Description>User DC=org,DC=doegrids,OU=People,CN=Tanya Levshina 508821 not
       authorized for getInfo</Description>
   <FaultCause>User DC=org,DC=doegrids,OU=People,CN=Tanya Levshina 508821 not
       authorized for getInfo</FaultCause>
     </ns1:AuthorizationFault>


         .....
```

4. Verify that your GIP configuration is correct.
   a. Run GIP wrapper script manually:

      $VDT_LOCATION/lcg/libexec/osg-info-wrapper >/tmp/out
      2>/tmp/err

   b. Check that you do not have any errors in /tmp/err.
   c. Check that you have all essential Glue Schema attributes in /tmp/out
      (such as GlueCEUniqueID , GlueClusterUniqueID,
      GlueSubClusterUniqueID)

   If installed version of VDT is 1.8.1 and higher you can test your GIP
   configuration by running ***verify-gip-for-cemon-wrapper*** script. In order to do
   so you have to:

   a. cd $VDT_LOCATION
   b. . setup.sh
   c. cd verify-gip-for-cemon
   d. run the script

         ./verify-gip-for-cemon-wrapper

      The script will either print out the valid gip configuration
      formatted for CEMon or generate an error that would help you with
      diagnostic of GIP configuration problems.

   e. to see help:

      ./verify-gip-for-cemon-wrapper -h
      Usage: java -DVDT_LOCATION=$VDT_LOCATION [OPTION...]
      [FILE]
        If FILE is specified checks Glue Schema format of that file
        else checks output of $VDT_LOCATION//glite/etc/glite-ce-ce-
      plugin/glite-ce-info
        The format should be complaint to OSG_CE topic/OLD_CLASSAD
      dialect
        -h, --help   display this help and exit
        -v, --version   output version information and exit

5. If everything mentioned above is working, contact export support and provide the
   following information:
   a. catalina log ($VDT_LOCATION/tomcat/v4/logs/catalina.out)
   b. cemonitor log ($VDT_LOCATION/tomcat/v4/logs/glite-ce-monitor.log)
   c. output of the wrapper script ($VDT_LOCATION/lcg/libexec/osg-info-
      wrapper)