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CEMon CLI User guide

1 Introduction

The CEMon CLI is provided by the glite-ce-monitor-client-api-c package, which is installed by default on a EMI-UI.

It provides the following executables:

- •/usr/bin/glite-ce-monitor-getinfo
- /usr/bin/glite-ce-monitor-gettopics
- /usr/bin/glite-ce-monitor-getevent
- /usr/bin/glite-ce-monitor-subscribe
- /usr/bin/glite-ce-monitor-subinfo
- /usr/bin/glite-ce-monitor-subupdate
- /usr/bin/glite-ce-monitor-pause
- /usr/bin/glite-ce-monitor-resume
- /usr/bin/glite-ce-monitor-unsubscribe
- /usr/bin/glite-ce-monitor-consumer

whose use is explained in the following sections.

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2 Query the CEMon service

2.1 Get general information about CEMon

glite-ce-monitor-getinfo is the tool to be used to have general information about a CEMon installation.

Usage:

```
glite-ce-monitor-getinfo [--cert <CERTIFICATE_FILE] [--key <KEY_FILE>] <CEMon_URL>
```

If the --cert option is not specified, the file referred by the environment variable X509_USER_CERT is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid>is considered

If the --key option is not specified, the file referred by the environment variable X509_USER_KEY is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid>is considered

CEMon_URL is the URL of the CEMon service

Example:

```
$ glite-ce-monitor-getinfo --cert /tmp/x509up_u756 --key /tmp/x509up_u756 https://cream-35.pd.inf
Description=[cemonitor service]
Version =[1.0]
HostDN =[/C=IT/O=INFN/OU=Host/L=Padova/CN=cream-35.pd.infn.it]
Action [SendExpiredNotification::]
Action [DoNotSendNotification::]
Action [SendNotification::]
```

2.2 Get information about deployed CEMon sensors

glite-ce-monitor-gettopics is the tool to be used to have general information about installed CEMon sensors. For each installed sensor it provides:

- the topic name
- the available dialects, along with the query languages that can be used for that dialect

Usage:

```
glite-ce-monitor-gettopics [--cert <CERTIFICATE_FILE] [--key <KEY_FILE>] <CEMon_URL>
```

If the --cert option is not specified, the file referred by the environment variable X509_USER_CERT is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid>is considered

If the --key option is not specified, the file referred by the environment variable X509_USER_KEY is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid>is considered

CEMon_URL is the URL of the CEMon service

Example:

```
$ glite-ce-monitor-gettopics --cert /tmp/x509up_u756 --key /tmp/x509up_u756 https://cream-35.pd.i
Topic [CE_MONITOR]
  Dialect [ISM_CLASSAD_GLUE_1.2]
     queryLanguage [RegEx]
     queryLanguage [ClassAd]
  Dialect [ISM_CLASSAD]
     queryLanguage [RegEx]
      queryLanguage [ClassAd]
  Dialect [ISM_LDIF_GLUE_1.2]
     queryLanguage [RegEx]
     queryLanguage [ClassAd]
  Dialect [ISM_LDIF]
     queryLanguage [RegEx]
     queryLanguage [ClassAd]
Topic [CREAM_JOBS]
  Dialect [CLASSAD]
     queryLanguage [ClassAd]
```

2.3 Get information provided by a CEMon sensor

glite-ce-monitor-getevent is the tool to be used to get the last output produced by a specific CEMon sensor

Usage:

```
glite-ce-monitor-getevent --topic <TOPIC_NAME> [--dialect <DIALECT_NAME>] [--cert <CERTIFICATE_FI
```

TOPIC_NAME is the name of the topic (sensor) for which the event is requested

=DIALECT_NAME is the name of the dialect (which defines how the information should be rendered). ==If the --dialect option is not specified the default dialect for that sensor is considered

If the --cert option is not specified, the file referred by the environment variable X509_USER_CERT is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid> is considered

If the --key option is not specified, the file referred by the environment variable X509_USER_KEY is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509 u<uid> is considered

CEMon URL is the URL of the CEMon service

Example:

```
$ glite-ce-monitor-getevent --topic CE_MONITOR --dialect ISM_LDIF --cert /tmp/x509up_u756 --key /
Event[0]:
    Message[0]=[[
    gluecestatefreejobslots = 0;
    glueceinfolrmstype = "lsf";
    gluecestatetotaljobs = 0;
    gluecepolicymaxtotaljobs = 999999999;
    glueceinfocontactstring = "https://cream-35.pd.infn.it:8443/ce-cream/services";
    gluecepolicypreemption = 0;
    glueforeignkey = {
        "GlueClusterUniqueID=cream-35.pd.infn.it"
    };
    gluecestaterunningjobs = 0;
    gluecestateestimatedresponsetime = 777777;
    gluecepolicymaxobtainablewallclocktime = 999999999;
```

glueinformationserviceurl = "ldap://cream-35.pd.infn.it:2170/mds-vo-name=resourc";

```
glueceinfodatadir = "unset";
gluecehostingcluster = "cream-35.pd.infn.it";
gluecepolicymaxwaitingjobs = 999999999;
gluecestateworstresponsetime = 1555554;
glueceinfoapplicationdir = "/opt/exp_soft/alice";
glueceuniqueid = "cream-35.pd.infn.it:8443/cream-lsf-creamtest2";
glueceimplementationversion = 31;
gluececapability = "unset";
...
...
```

3 Work with CEMon subscriptions

3.1 Create a subscription

glite-ce-monitor-subscribe is the tool to be used to create a CEMon subscription. The events produced by the relevant CEMon sensor will be specified to the specified CEMon consumer.

Usage:

```
glite-ce-monitor-subscribe [--cert <CERTIFICATE_FILE>] [--key <KEY_FILE>] --topic <TOPIC_NAME> [-
```

If the --cert option is not specified, the file referred by the environment variable X509_USER_CERT is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid>is considered

If the --key option is not specified, the file referred by the environment variable X509_USER_KEY is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid>is considered

TOPIC_NAME is the name of the topic (sensor) for which the event is requested

If the --dialects option is not specified the default dialect for that sensor is considered

CONSUMER_URL_TO_SUBSCRIBE is the URL of the CEMon consumer where the information produced by the relevant CEMon sensor must be sent

Notifications for the specified topic will be sent to the consumer every DELAY_BETWEEN_TWO_NOTIFICATIONS seconds

CEMon_URL is the URL of the CEMon service

Examples:

```
$ glite-ce-monitor-subscribe --topic CE_MONITOR --dialects ISM_LDIF --cert /tmp/x509up_u756 --key
SubscriptionID=[uuid-1247573738304]
$ glite-ce-monitor-subscribe --topic CE_MONITOR --dialects ISM_LDIF --cert /tmp/x509up_u756 --key
SubscriptionID=[uuid-1247573798410]
```

3.2 List existing subscriptions

The glite-ce-monitor-subinfo command can be used to list the existing subscriptions (belonging to the user issuing the command) on a specific CEMon installation.

Usage:

```
glite-ce-monitor-subinfo [--cert <CERTIFICATE_FILE] [--key <KEY_FILE>] <CEMon_URL>
```

If the --cert option is not specified, the file referred by the environment variable X509_USER_CERT is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid> is considered

If the --key option is not specified, the file referred by the environment variable X509_USER_KEY is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid> is considered

CEMon_URL is the URL of the CEMon service

Example:

```
$ glite-ce-monitor-subinfo --cert /tmp/x509up_u756 --key /tmp/x509up_u756 https://cream-35.pd.inf
ID=[uuid-1247573798410] Topic=[CE_MONITOR] Consumer=[https://lxsgaravatto.pd.infn.it:5677] Rate=[ID=[uuid-1247573738304] Topic=[CE_MONITOR] Consumer=[http://lxsgaravatto.pd.infn.it:5676] Rate=[2]
```

3.3 Modify a CEMon subscription

glite-ce-monitor-subupdate is the command that must be used to modify an existing CEMon subscription.

Usage:

```
glite-ce-monitor-subupdate --id <SUBSCRIPTION_ID_TO_UPDATE> [--cert <CERTIFICATE_FILE>] [--key <K
SUBSCRIPTION_ID_TO_UPDATE is the identifier of the CEMon subscription that must be updated
```

If the --cert option is not specified, the file referred by the environment variable X509_USER_CERT is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid> is considered

If the --key option is not specified, the file referred by the environment variable X509_USER_KEY is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid> is considered

CONSUMER_URL_TO_SUBSCRIBE is the URL of the new CEMon consumer where the information produced by the relevant CEMon sensor must be sent

Notifications for the specified topic will be sent to the consumer every DELAY_BETWEEN_TWO_NOTIFICATIONS seconds

CEMon_URL is the URL of the CEMon service

Example:

```
$ glite-ce-monitor-subupdate --id uuid-1247573738304 --cert /tmp/x509up_u756 --key /tmp/x509up_u7
```

3.4 Suspend a notification

glite-ce-monitor-pause is the command to be used to suspend a notification. When a notification is suspended. CEMon doesn't send any event to the relevant CEMon consumer.

Usage:

```
glite-ce-monitor-pause [--cert <CERTIFICATE_FILE] [--key <KEY_FILE>] --id <SUBSCRIPTION_ID_TO_PAUSE is the identifier of the CEMon subscription that must be suspended
```

If the --cert option is not specified, the file referred by the environment variable X509_USER_CERT is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid> is considered

If the --key option is not specified, the file referred by the environment variable X509_USER_KEY is considered. If this variable is not set, the file referred by the environment variable X509_USER_PROXY is considered. If even this variable is not set, the file /tmp/x509_u<uid>is considered

CEMon_URL is the URL of the CEMon service

3.5 Resume a notification

glite-ce-monitor-resume is the command to be used to resume a previously suspended notification.

Usage:

```
glite-ce-monitor-resume [--cert <CERTIFICATE_FILE] [--key <KEY_FILE>] --id <SUBSCRIPTION_ID_TO_RE
<verbatim>
=SUBSCRIPTION_ID_TO_RESUME= is the identifier of the CEMon subscription that must be resumed
If the =--cert= option is not specified, the file referred by the environment variable =X509_USER
If the =--key= option is not specified, the file referred by the environment variable =X509_USER_
=CEMon_URL= is the URL of the CEMon service
---## Delete a subscription
=glite-ce-monitor-unsubscribe= is the command that must be used to remove an existing CEMon subsc
Usage:
<verbatim>
glite-ce-monitor-unsubscribe [--cert <CERTIFICATE_FILE>] [--key <KEY_FILE>] --id <SUBSCRIPTION_ID</pre>
</verbatim>
=SUBSCRIPTION_ID_TO_REMOVE= is the identifier of the CEMon subscription that must be removed
If the =--cert= option is not specified, the file referred by the environment variable =X509_USER
If the =--key= option is not specified, the file referred by the environment variable =X509_USER_
=CEMon_URL= is the URL of the CEMon service
---## Start a CEMon consumer
=glite-ce-monitor-consumer= is a command to be used to start a CEMon consumer. It starts a light
Usage:
glite-ce-monitor-consumer [--key keyfile --cert certfile] [--outpath path] [--append-output] <tcp
</verbatim>
The content of the received notification is printed in a file whose name is the hostname of the C
The cert and key file must be specified only if the authentication must be turned on. Please note
Examples:
```

\$ glite-ce-monitor-consumer --outpath /home/sgaravat --append-output 8676

<verbatim>

```
$ glite-ce-monitor-consumer --cert /home/sgaravat/hostcert.pem --key /home/sgaravat/hostkey.pem 5
</re>
-- Main.MassimoSgaravatto - 2011-04-20</div><!-- /patternTopic-->
%META{"form"}%
%META{"attachments"}%</div><!-- /patternContent-->
%MAKETEXT{"This topic:"}% <nop>%WEB%%META{"parent" prefix="<span class='twikiSeparator'>&nbsp;&gt
%MAKETEXT{"Topic revision:"}% %REVINFO{format="r$rev - $date - <nop>$wikiname"}%
</div><!-- /patternMainContents-->
</div><!-- /patternMain-->
</div><!-- /patternFloatWrap-->
<div class="clear">&nbsp;</div>
</div><!-- /patternPage-->
</div><!-- /patternPageShadow--> </div><!-- /patternScreen-->
</body></html>
</re>
<nop>
```