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CEMon Testplan version 1.0

Unit tests

Not available

Deployment tests

The yum repositories to be used (apart from the OS ones) are:

- The CA repo (<http://repository.egi.eu/sw/production/cas/1/current/repo-files/egi-trustanchors.repo>)
- The EPEL repo
- The middleware EMI repo

Since CEMon is deployed as part of the CREAM-CE, the command to be used for yum installation is:

```
yum install emi-cream-ce
```

and for yaim-configuration:

```
/opt/glite/yaim/bin/yaim -c -s <site-info.def> -n creamCE
```

Yaim variable USE_CEMON must be set to true

System tests

Basic functionality tests

Resource BDII glue1 test

Check if the CEMon service is published in the CREAM CE resource BDII in Glue 1.3

```
ldapsearch -h <host> -x -p 2170 -b "o=grid" "objectclass=GlueService"
```

This should (also) return an objectclass for CEMon

Resource BDII glue 2 test

Check if the CEMon service is published in the CREAM CE resource BDII in Glue 2

```
ldapsearch -h <host> -x -p 2170 -b "o=glue" "objectclass=Glue2Endpoint"
```

This should (also) return an objectclass for CEMon

GetInfo test

Check if the getinfo operation works and returns information about the service:

```
glite-ce-monitor-getinfo --cert <cert> --key <key> https://<host>:8443/ce-monitor/services/CEMoni
```

GetTopics test

Check if the gettopics operation works and returns the list of installed topic

```
glite-ce-monitor-gettopics --cert <cert> --key <key> https://<host>:8443/ce-monitor/services/CEMon
```

GetEvent test

Check if the getevent operation works and return info for the specified topic in the specified dialect

```
glite-ce-monitor-getevent --cert <cert> --key <key> --topic <topic> --dialect <dialect> https://<
```

Subscription with authentication test

Check if subscriptions towards a authenticated consumer work:

Start an authenticated consumer:

```
glite-ce-monitor-consumer --cert <cert> --key <key> <port>
```

Then create a subscription for that consumer and verifies that it receives events:

```
glite-ce-monitor-subscribe --key <key> --cert <cert> --topic <topic> --dialects <dialect> --consu
```

Subscription without authentication test

Check if subscriptions towards a not authenticated consumer work:

Start a not authenticated consumer:

```
glite-ce-monitor-consume <port>
```

Then create a subscription for that consumer and verifies that it receives events:

```
glite-ce-monitor-subscribe --key <key> --cert <cert> --topic <topic> --dialects <dialect> --consu
```

Unsubscription test

Check if the unsubscribe operation works.

Unsubscribe a previously created subscription and verifies that the relevant consumer doesn't receive anymore events:

```
glite-ce-monitor-unsubscribe --cert <cert> --key <key> --id <subsc-id> https://<host>:8443/ce-mon
```

gJAF and ARGUS authorization tests

Repeat the tests:

- GetInfo test
- GetTopics test
- GetEvent test
- Subscription with authentication test
- Subscription without authentication test
- Unsubscription test

with e CE configured first for gJAF and then configured for ARGUS

Regression tests

See: <https://wiki.italiangrid.it/twiki/bin/view/CREAM/RegressionTestWorkPlan>

Performance and scalability tests

Not available

Standard compliance and conformance tests

Not available

-- MassimoSgaravatto - 2011-04-19

This topic: CEMon > CemonTestPlan

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