EBI-MuG PMES

Workflows and Distributed computing

March 30, 2017

1 Acces

```
OpenStack acces:
```

```
URL: https://extcloud05.ebi.ac.uk/dashboard/project/
```

username: XXX@bsc.es

password: XXXX

First acces to the VM with floating point.

```
ssh -vv -i XXX.pem -l ubuntu 193.62.52.104
```

Then acces to the VM which is hosting the PMES service:

```
ssh -i XXX.pem -l ubuntu 192.168.0.27
```

Finally change to the user PMES.

sudo su pmes

2 OCCI

The occi endpoint is https://extcloud05.ebi.ac.uk:8787/occi1.1/ The occi authentication mode is token. To get the token you have to do the following steps:

• source a file with the following parameters:

```
export OS_NO_CACHE=True
export OS_CLOUDNAME=overcloud
export OS_AUTH_URL=https://extcloud05.ebi.ac.uk:13000/v2.0
export NOVA_VERSION=1.1
export COMPUTE_API_VERSION=1.1
export OS_USERNAME=XXX@bsc.es
export OS_PASSWORD=XXXX
export OS_TENANT_NAME=BSC-MuG
```

• execute the following command:

• get token from data.json and export the following variable:

```
export OS_TOKEN=toke_from_data.json
```

With the token you can execute occi commands with auth mode token. For example:

```
occi --endpoint https://extcloud05.ebi.ac.uk:8787/occi1.1/ --auth token -q $OS_TOKEN --action list --resource resource_tpl
```

3 PMES

PMES service is already installed using tomcat7. The endpoint is http://localhost:8080/pmes/pmes/. You can call the service using curl or you can call the service using the python script /home/pmes/scripts/curlPmesApi.py.

```
# api call getSystemStatus
python3 curlPmesApi.py getSystemStatus
# api call getActivityReport
python3 curlPmesApi.py getActivityReport job_id
# api call terminateActivity
python3 curlPmesApi.py terminateActivity job_id
# api call createActivity
python3 curlPmesApi.py createActivity createVM.json
  createVM. json is a json file with a job definition. For example:
[{ "jobName": "HelloTest2_584817558cb7550b5e9970b0",
          "wallTime": "5",
          "minimumVMs": "1"
          "maximumVMs": "1",
          "limitVMs": "1",
          "initialVMs": "1",
          "memory": "1.0",
          "cores": "1",
          "disk" : "1.0"
          "inputPaths": ["/home/"],
          "outputPaths": ["/home/"],
          "mountPath":"",
          "numNodes": "1",
          "user":
             { "username": "lcodo",
               "credentials":
               { "pem": "",
                 "key": ""
                 "token": "6718197acbb04f7d9695f832cfb2e38f" }
             },
          "img":
             { "imageName": "os_tpl#4f916ede-218b-47e4-93aa-b795a5acf813",
               "imageType": "resource_tpl#721112dd-2f33-40eb-8975-7bd34dbabfc8"
```

```
},
"app":
    { "name": "HelloTest2",
        "target": "/home/pmes/testSimple",
        "source": "launch.sh",
        "args": { "val1": "Hola", "val2": "Mundo" } ,
        "type": "COMPSs"
     },
     "compss_flags": {}
}]
```