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Re: creating a VM in EGI
1 message

Susana Sanchez Exposito <sse@iaa.es>   Wed, Apr 6, 2022 at 6:04 PM
To: "Bertocco, Sara" <sara.bertocco@inaf.it>
Cc: Dave Morris <dmr@roe.ac.uk>

Hi again,
It seems the screenshots did not copy into the email correctly, I try it again:

A) Previous steps
In EGI you need to be a member of a VO in order to have access to the resources. There is a VO for testing purpose, and this is the one that I am using

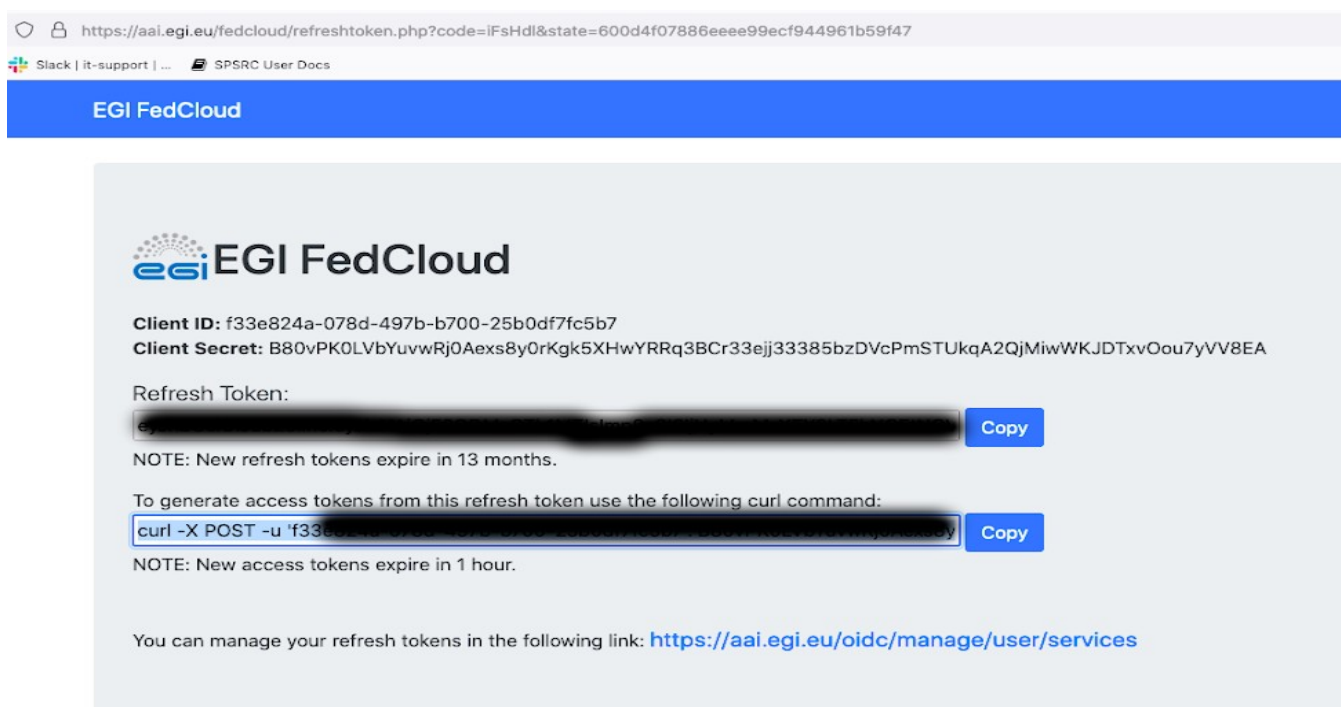1) Apply for membership in the VO vo.access.egi.eu. Here the steps.

2) You need to have FedCloud CLI installed. Here the steps: https://docs.egi.eu/users/getting-started/cli/

B) Generate tokens

1) Access to

https://aai.egi.eu/fedcloud/

2) Get the tokens and the curl command

C) Configure Tokens

1) Paste curl command copied in B)

curl -X POST -u 'f33XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX' -d 'grant_type=refresh_token&
refresh_token=XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXX.&scope=openid%20email%20profile%20eduperson_entitlement' 'https://aai.egi.eu
/oidc/token' | python -m json.tool;

2) Update token

```
export OIDC_ACCESS_TOKEN="XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX.
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
```

Alternative to C) Configure Tokens

Here there is an alternative way to get the tokens by means of the FedCloud CLI tool:

eval `oidc-agent`

oidc-gen --pub --issuer https://aai.egi.eu/oidc --scope "email eduperson_entitlement eduperson_scoped_affiliation eduperson_unique_id" sse_token

When executing the previous command, you will see a message that asks you to open a web page in a browser and copy and paste a code provided in this web page.

After that, you can easily re-new your access token by running the following bash command:

export OIDC_ACCESS_TOKEN=`oidc-token sse_token`

D) OpenStack commands

1) List available sites (you need to know the sites since you need to indicate the site in which the VM will be created)

root@33b8c1db6a04:/# fedcloud site list

2) Flavor list

fedcloud openstack --oidc-access-token $OIDC_ACCESS_TOKEN flavor list --vo vo.access.egi.eu --site <site_name>

3) Network list

root@33b8c1db6a04:/# fedcloud openstack --oidc-access-token $OIDC_ACCESS_TOKEN network list --vo vo.access.egi.eu --site <site_name>

4) Image list

root@33b8c1db6a04:/# fedcloud openstack --oidc-access-token $OIDC_ACCESS_TOKEN image list --vo vo.access.egi.eu --site <site_name>

5) Create VM

fedcloud openstack --oidc-access-token $OIDC_ACCESS_TOKEN server create --flavor <selected_flavor> --image "<selected image name>" --network net-vo.access.egi.eu <machine_name> --vo vo.access.egi.eu --site <site_name>

6) See VM propierties

root@33b8c1db6a04:/# fedcloud openstack --oidc-access-token $OIDC_ACCESS_TOKEN server show <machine_name> --vo vo.access.egi.eu --site <site-name>

```
root@33b8c1db6a04:/# fedcloud openstack --oidc-access-token $OIDC_ACCESS_TOKEN server create --flavor cor4mem8hd40 --image "Image for EGI Ubuntu 20.04 [Ubuntu/20.04/V
irtualBox]" --network net-vo.access.egi.eu TESTSSE --vo vo.access.egi.eu --site CESGA
Error: Client ID and secret required together with refresh token
Site: CESGA, VO: vo.access.egi.eu, command: server create --flavor cor4mem8hd40 --image Image for EGI Ubuntu 20.04 [Ubuntu/20.04/VirtualBox] --network net-vo.access.e
gi.eu TESTSSE
+-----------------------------+------------------------------------------------------------+
| Field                       | Value                                                      |
+-----------------------------+------------------------------------------------------------+
| OS-DCF:diskConfig           | MANUAL                                                      |
| OS-EXT-AZ:availability_zone |                                                            |
| OS-EXT-STS:power_state      | NOSTATE                                                    |
| OS-EXT-STS:task_state       | scheduling                                                 |
| OS-EXT-STS:vm_state         | building                                                   |
| OS-SRV-USG:launched_at      | None                                                       |
| OS-SRV-USG:terminated_at    | None                                                       |
| accessIPv4                  |                                                            |
| accessIPv6                  |                                                            |
| addresses                   |                                                            |
| adminPass                   | vaLexUQLq9is                                               |
| config_drive                |                                                            |
| created                     | 2022-04-04T10:28:05Z                                       |
| flavor                      | cor4mem8hd40 (26d14547-96f2-4751-a686-f89a9f7cd9cc)        |
| hostId                      |                                                            |
| id                          | 1bd400d7-3af0-49a7-8ff1-f3bc1e07f7bf                       |
| image                       | Image for EGI Ubuntu 20.04 [Ubuntu/20.04/VirtualBox] (a015ed1d-f416-4277-aca3-06ca43ac8fcf) |
| key_name                    | None                                                       |
| name                        | TESTSSE                                                    |
| progress                    | 0                                                          |
| project_id                  | 3a8e9d966e644405bf19b536adf7743d                           |
| properties                  |                                                            |
| security_groups             | name='default'                                             |
| status                      | BUILD                                                      |
| updated                     | 2022-04-04T10:28:05Z                                       |
| user_id                     | b242b7198ec94c26a404db1f835207e0                           |
| volumes_attached            |                                                            |
+-----------------------------+------------------------------------------------------------+
root@33b8c1db6a04:/#
```

7) Delete VM

root@33b8c1db6a04:/# fedcloud openstack --oidc-access-token $OIDC_ACCESS_TOKEN server delete <machine_name> --vo vo.access.egi.eu --site <site-name>

Best,

Susana