Accessing the Cleura Cloud REST API

Cleura Cloud provides a REST API, which you can take advantage of with a tool like curl. But before you do, you must create a token for the current session. For that, you only need to have an account in Cleura Cloud.

Creating a token

Cleura Cloud REST API calls use token authentication. The process of obtaining a valid token works slightly differently, based on whether your account has two-factor authentication (2FA) enabled or not.

Without 2FA With 2FA

If you do not have 2FA enabled for your account, to create a token, have your username (your_cc_username) and password (your_cc_password) to the Cleura Cloud handy and type:

```
curl -d '{"auth": {"login":
  "your_cc_username", "password":
  "your_cc_password"}}' \
  https://rest.cleura.cloud/auth/v1/
tokens
```

Provided you typed your username and password correctly and that there were no connection issues to the remote endpoint, you will get a JSON object with a string (token) that holds your session token:

```
{
    "result": "login_ok",
    "token":
    "vahkie7EiDaij7chegaitee2zohsh1oh"
}
```

If you do have 2FA enabled for your account, then first request a token as you would without 2FA enabled:

```
curl -d '{"auth": {"login":
  "your_cc_username", "password":
  "your_cc_password"}}'\
  https://rest.cleura.cloud/auth/v1/
tokens
```

Instead of a token, you will get a verification code (look at verification):

```
{
    "result": "twofactor_required",
    "type": "sms",
    "verification": "ahb4en3cho"
}
```

This verification code is required for requesting a 2FA code:

```
curl -d '{"request2fa": {"login":
  "your_cc_username", "verification":
  "ahb4en3cho"}}'\
  https://rest.cleura.cloud/auth/v1/
tokens/request2facode
```

In our example, the code is sent via an SMS message (check the JSON object above and, more specifically, look at the value of type). So after getting a new SMS message with your 2FA code, which expires after ten minutes, go ahead and request your token like this:

```
curl -d '{"verify2fa": {"login":
  "your_cc_username", "verification":
  "ahb4en3cho", "code": 2fa_code}}'\
  https://rest.cleura.cloud/auth/v1/
tokens/verify2fa
```

Make sure not to put the 2fa code in Now that you have obtained a valid token, you can proceed with making Cleura guotas restrictions and that fact should be reflected during the assignment to code. You will get

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```
{
    "result": "login_ok",
    "token":
    "fiushood9oraTiNa4ban3eemeezoeDae"
}

curl -H "X-AUTH-LOGIN: your_cc_username" \
    -H "X-AUTH-TOKEN: vahkie7EiDaij7chegaitee2zohsh1oh" \
    https://rest.cleura.cloud/accesscontrol/v1/openstack/domains
```

All supported regions should be returned as objects in a JSON array:

```
"status": "active",
    "region": "Sto2"
 ]
"id": "79b0cef45b504586ad0bf057dc4cb8b8",
"status": "provisioned",
"name": "CCP Domain 43597",
"enabled": true
},
"area": {
  "id": "3",
  "name": "Japan",
  "tag": "JP",
  "regions": [
    "zone_id": "7",
    "name": "Tokyo \/ Japan",
    "status": "active",
    "region": "tky1"
 ]
},
"status": "available"
},
"area": {
 "id": "7",
  "name": "Germany \/ Frankfurt",
  "tag": "DE",
  "regions": [
    "zone id": "6",
    "name": "Frankfurt V Germany",
    "status": "active",
    "region": "Fra1"
 ]
},
"id": "08db589d04f442e19c272f2cd1a02906",
"status": "provisioned",
"name": "CCP Domain 43597",
"enabled": true
},
{
"area": {
  "id": "2",
  "name": "United Arab Emirates",
  "tag": "AE",
  "regions": [
    "zone_id": "8",
    "name": "Dubai \/ UAE",
    "status": "active",
    "region": "dx1"
```

```
},
 "status": "available"
},
"area": {
  "id": "1",
  "name": "Europe",
  "tag": "EU",
  "regions": [
     "zone_id": "1",
    "name": "Karlskrona V Sweden",
    "status": "active",
    "region": "Kna1"
 ]
 },
 "id": "a018123218f5428ba96d7fb212d90cf2",
 "status": "provisioned",
"name": "CCP_Domain_43597",
 "enabled": true
}
```

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Authors: Christos Varelas, Florian Haas