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 REST API guetes, for it is of type integer and that fact should be reflected during the assignment to code. You will get

TESTING thethorem

```
{
    "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
}
```

Last update: 2023-01-02 Created: 2023-01-02 Authors: Christos Varelas