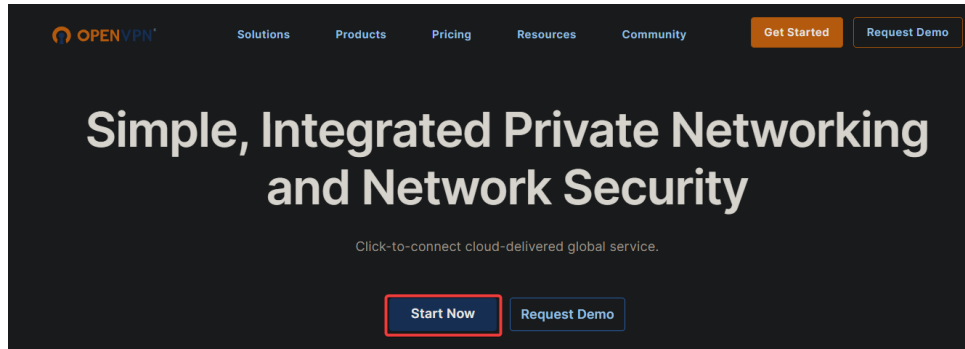# Openvpn Api

How to create a user(client) and download their profiles(.ovpn) using rest api.

Prerequisite:

➢ **Creating an OpenVPN Cloud Account**

1. navigate to the [official OpenVPN Cloud website](#) and click **Start Now** to create an account.

2. Next, provide your email address and password, and click **Create Your Account.**

3. Click **Confirm your email**, and a verification email will be sent to your provided address.

Safety is the core principle of our product

Confirm your email **openvpnapi2023@gmail.com** to continue.

| 0 | 4 | 7 | 9 | 5 | 2 |

Confirm

Haven't received the code? Resend Code or Change Email

4. Provide a secure password and basic details about your account, and click Continue

Just a Few More Details

Help us customize your experience.

Name

First Name *   Last Name *

Initial Configuration

How do you plan to use Cloud Connexa? *   How many connections? *

Company

Company Name *   Your Role *

Industry *

Country: *

Select...

5.   On the next screen, provide a Cloud ID for your Wide-area Private Cloud (WPC). Note that your Cloud ID cannot be changed once provided.

6.   After logging in to your WPC, your browser redirects to the default Status page, as shown below.

➢ **Creating OAuth credentials and enable API**

1. From the CloudConnexa Administration portal, navigate to **Settings** > **API**.

2. Click **Create Credentials**.

3. Specify a name for your credentials.

4. Accept the default one-month lifetime value or specify a different one.OAuth credentials have an expiration period of two weeks, one month, six months, or one year.

5. Specify an optional whitelisted IP subnet range.

6. Click **Create**

7. **Enable api**
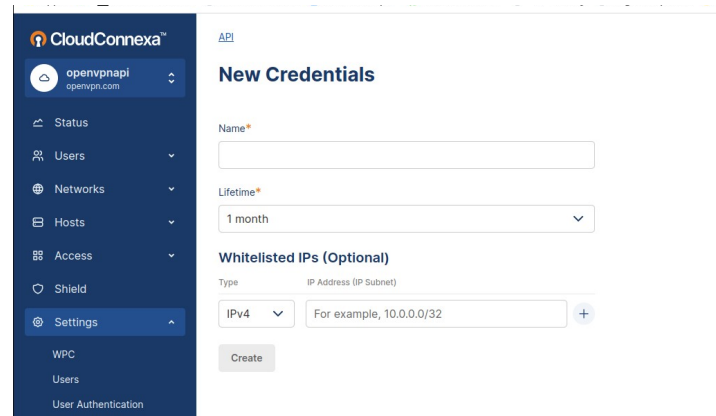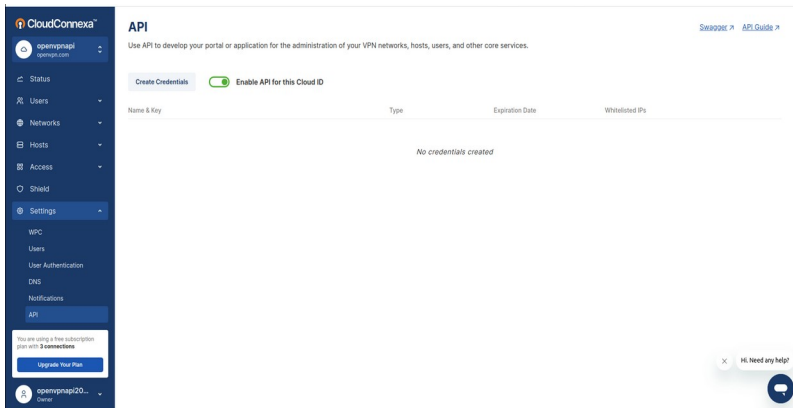
8. Make sure that you have saved the secret. After closing this page, you will not be able to see secret again.
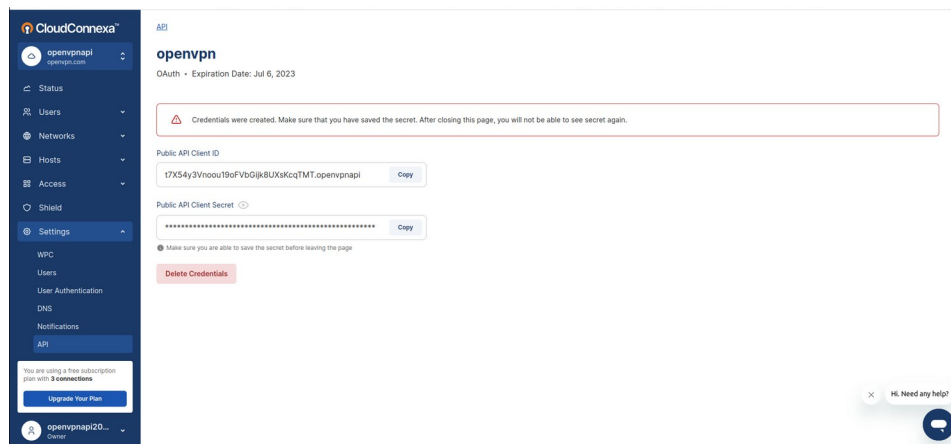
9.

OpenVpn / Flask:

CloudConnexa utilizes OAuth 2.0's Client Credentials grant for obtaining an access token to access its own resources rather than acting on behalf of a user. Consequently, an endpoint is required to obtain the bearer token, which must be included in each subsequent request.

When creating a user in OpenVPN Cloud, if no group is specified, the user will be assigned to a default group. An ID is generated for the user, which I will later use to create a device associated with this user. This device allows me to generate a profile (.ovpn) .

To obtain the profile (.ovpn) of a user (client), you need to identify the region in the OpenVPN Cloud that is closest to your location.

Problem :

When attempting to connect to OpenVPN using the profile (.ovpn), the browser will be launched to prompt the user to enter their credentials. To avoid this, you need to modify the group settings for this user.

Solution :

1. navigate to **users > groups**

2. select the **default** group and click **edit**

3. change the option of **connect oauth** to **NO**
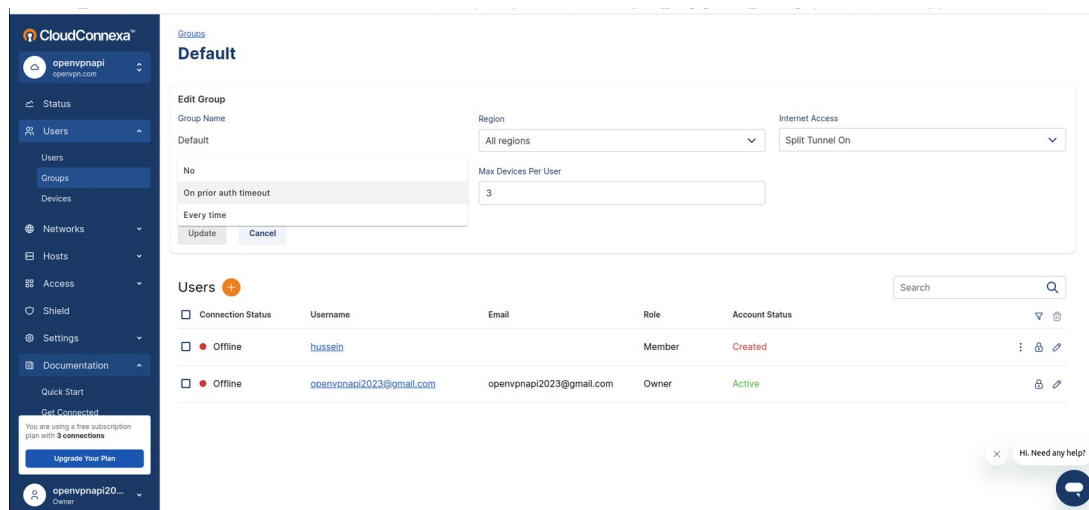
APIs: These endpoints need security enhancements, which I will address later after discussion . Presently, I pass the Bearer_token for the openvpn api generated within the body of each endpoint, to the internal request call. As for optional body fields in each openvpn api will be discussed and added at a later stage.

Endpoints

> ## Get Bearer token

Request OAuth token

URL: /token

Method: post

body:

```
{
        "client_id": "string ",
         "client_secret": "string " ,
}
```

Response Example:

```
{
        "access_token": "string",
         "expires_in": 0,
       "scope": "string",
         "token_type": "string"
}
```

➢ **_Create user_**

Create a new local user with a device

URL: /user

Method: post

body:

```
{
        "bearer_token": "string ",

         "username": "string " ,

}
```

Response Example:

```
{
         "userid": "string",

          "groupId": "string",

        "deviceId": "string",

}
```

➢ **Get the profile (.ovpn)**

Generate .ovpn profile for an existing device

URL: /profile

Method: post

body:

```
{
        "regionId" :"eu-west-1",

        "deviceId": "string",

        "userId": "string",

        "bearer_token" : "string"

}
```

Response Example: return the text of the .ovpn file

➢ **Create a user and Get the profile (.ovpn)**

Create a new user and Generate .ovpn profile

URL: /create_user_profile

Method: post

body:

```
{
        "username": "string",
        " regionId : "string",
        "bearer_token" : "string"
}
```

Response Example: return the text of the .ovpn file

➢ **Get existing Regions**

Get existing Regions

URL: /regions

Method: post

body:

```
{
        "bearer_token" : "string"
}
```

Response Example:

```
[
 {
        "continent": "string",
        "country": "string",
        "countryIso": "string",
        "id": "string",
        "regionName": "string"
 }
]
```