

Step 1 Get Access Token

The screenshot shows a REST client interface with the following details:

- Overview tab selected.
- Request URL: `https://www.gwn.cloud/oauth/token?grant_type=client_credentials&client_id=78799&client_secret=BnjloHkBBByOmtkS4...`
- Method: GET
- Params tab selected.
- Query Params table:

Key	Value
<input checked="" type="checkbox"/> grant_type	client_credentials
<input checked="" type="checkbox"/> client_id	78799
<input checked="" type="checkbox"/> client_secret	BnjloHkBBByOmtkS4oio[iHqbBsNSml2'
Key	Value

Body tab selected, showing JSON response:

```
1 {
2   "access_token": "cdc89e12-e749-4a9e-8bb2-cd8ebae066d9",
3   "token_type": "bearer",
4   "expires_in": 3599,
5   "scope": "read write"
6 }
```

Step 2 Prepare GET Network List URL

[https://www.gwn.cloud/oapi/v1.0.0/network/list?
access_token=cdc89e12-e749-4a9e-8bb2-cd8ebae066d9
&appID=78799
×tamp=1698844029000
&signature=_____](https://www.gwn.cloud/oapi/v1.0.0/network/list?access_token=cdc89e12-e749-4a9e-8bb2-cd8ebae066d9&appID=78799×tamp=1698844029000&signature=_____)

Step 3 Prepare the access token, appID, secretkey and timestamp

&access_token=cdc89e12-e749-4a9e-8bb2-cd8ebae066d9
&appID=78799
&secretKey=BnjloHkBBByOmtkS4aZFHqbBsNSml2Va
×tamp=1698844029000

&access_token=952ba3d9-e006-4abf-baee-e8feba43d578
&appID=100803
&secretKey=Ly37hEDW8ZGClxa7Lv36TWchtHE3cc6Y
×tamp=1699259075

<https://www.epochconverter.com/>

this is website for timestamp

--> click human date to timestamp --> copy Timestamp in milliseconds

Step 4 Prepare the Body

```
{"type":"asc","order":"id","search":"","pageNum":1,"pageSize":5}
```

```
>> ac6e03309f60e596fc878d3b9297ad326070c3a950e267900b7305f90a1067c7
```

emn178.github.io/online-tools/sha256.html

Online Tools Hash Encoding Misc

SHA256

This SHA256 online tool helps you calculate hash from string or binary. You can input UTF supports HMAC.

Input Type UTF-8

```
{"type": "asc", "order": "id", "search": "", "pageNum": 1, "pageSize": 5}
```

Remember Input

Enable HMAC

Hash Auto Update

```
ac6e03309f60e596fc878d3b9297ad326070c3a950e267900b7305f90a1067c7
```

Step 5: Getting the Signature = Step 3 + Step 4 (&step3&step4&)

```
&access_token=cdc89e12-e749-4a9e-8bb2-cd8ebae066d9
```

```
&appID=78799
```

```
&secretKey=BnjloHkBBByOmtkS4aZFHqbBsNSml2Va
```

```
&timestamp=1698844029000
```

```
&ac6e03309f60e596fc878d3b9297ad326070c3a950e267900b7305f90a1067c7&
```

```
>> d19055085e425cf92959f71e3c41dc5e0e3dd6e89dbc19183b7331db94b99107
```

SHA256

This SHA256 online tool helps you calculate hash from string or binary. You can input UT supports HMAC.

Input Type UTF-8 ▾

```
&access_token=cdc89e12-e749-4a9e-8bb2-cd8ebae066d9&appID=78799&secretKey=BnjIoHkBBByOmtkS4aZFHqbBsNSm12Va&timestamp=1698844029000&ac6e03309f60e596fc878d3b9297ad326070c3a950e267900b7305f90a1067c7&
```

Remember Input

Enable HMAC

Hash Auto Update

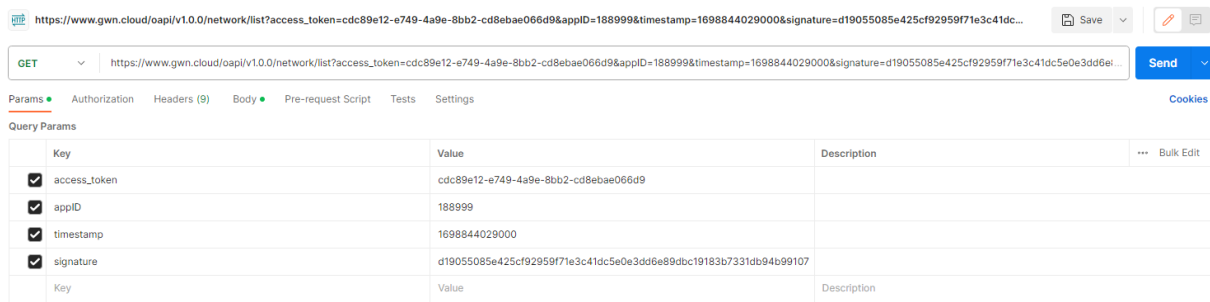
```
d19055085e425cf92959f71e3c41dc5e0e3dd6e89dbc19183b7331db94b99107
```

Conv

Step 6 Paste signature in GET Network List URL

https://www.gwn.cloud/oapi/v1.0.0/network/list?access_token=cdc89e12-e749-4a9e-8bb2-cd8ebae066d9&appID=188999×tamp=1698844029000&signature=d19055085e425cf92959f71e3c41dc5e0e3dd6e89dbc19183b7331db94b99107

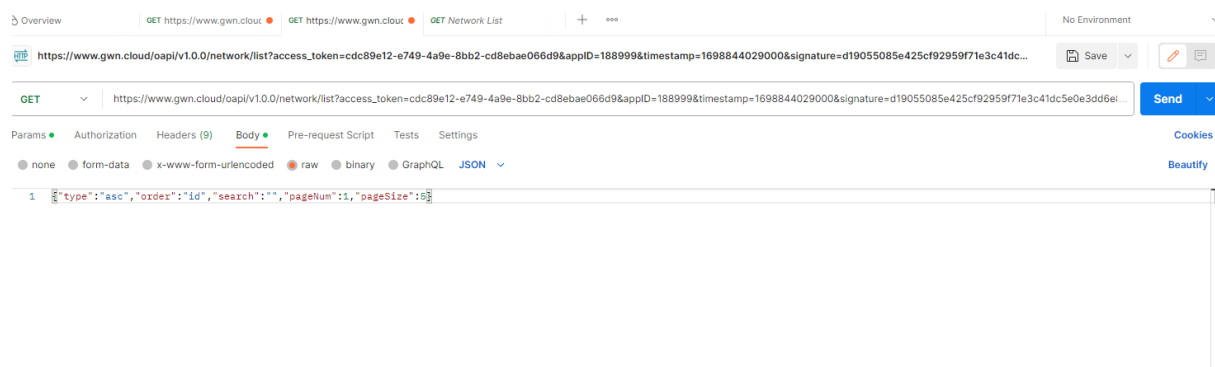
Step 7 Paste GET Network List URL in Postman



The screenshot shows the Postman interface for a GET request. The URL is `https://www.gwn.cloud/oapi/v1.0.0/network/list?access_token=cdc89e12-e749-4a9e-8bb2-cd8ebae066d9&appId=188999×tamp=1698844029000&signature=d19055085e425cf92959f71e3c41dc5e0e3dd6e...`. The query parameters are:

Key	Value	Description
<input checked="" type="checkbox"/> access_token	cdc89e12-e749-4a9e-8bb2-cd8ebae066d9	
<input checked="" type="checkbox"/> appId	188999	
<input checked="" type="checkbox"/> timestamp	1698844029000	
<input checked="" type="checkbox"/> signature	d19055085e425cf92959f71e3c41dc5e0e3dd6e89dbc19183b7331db94b99107	

Step 8 Paste Body in Postman



The screenshot shows the Postman interface for a GET request. The URL is the same as in Step 7. The body is set to raw JSON with the following content:

```
1 {"type": "asc", "order": "id", "search": "", "pageNum": 1, "pageSize": 5}
```

Step 9 Click Send

GET https://www.gwn.cloud/oapi/v1.0.0/network/list?access_token=cdc89e12-e749-4a9e-8bb2-cd8ebae066d9&appID=188999×tamp=1698844029000&signature=d19055085e425cf92959f71e3c41dc... Save Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	Bulk Edit
<input checked="" type="checkbox"/> access_token	cdc89e12-e749-4a9e-8bb2-cd8ebae066d9		
<input checked="" type="checkbox"/> appID	188999		
<input checked="" type="checkbox"/> timestamp	1698844029000		
<input checked="" type="checkbox"/> signature	d19055085e425cf92959f71e3c41dc5e0e3dd6e89dbc19183b7331db94b99107		
Key	Value	Description	

Body Cookies (3) Headers (17) Test Results Status: 200 OK Time: 846 ms Size: 112 KB Save as example

Pretty Raw Preview Visualize JSON

```
1  {
2    "data": {
3      "result": [
4        {
5          "id": 38581,
6          "networkName": "Default Network" ✓
7        },
8        {
9          "id": 61938,
10         "networkName": "Office 2 (GW7862)" ✓
11       },
12       {
13         "id": 79849,
14         "networkName": "Hakimi's Kampung" ✓
15       },
16       {
17         "id": 88536,
```