
OPERATION
DOCUMENTATION

電商平台教學文件

API 、Webhook 說明文件

CYBERBIZ

API、Webhook 說明

重要 1：

要串接 API，商家一定需要自己找工程人員寫程式串接（使用 RESTful API）

重要 2：

要串接 API，串接工程人員需對 CYBERBIZ 後台有一定了解。

例如在 CYBERBIZ 後台怎麼操作出貨？後台怎麼給消費者紅利？

若不瞭解後台的操作方式，單看 API 的文件，看完還是會不太懂那些參數是什麼

什麼是 API, Webhook ?

什麼是 API ?

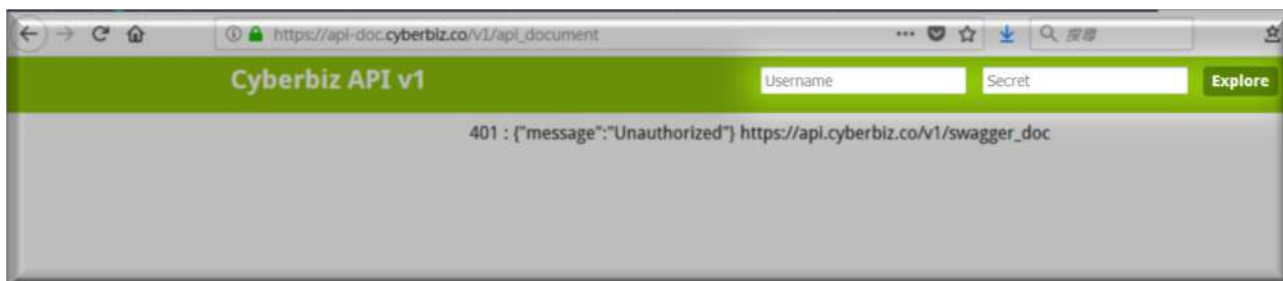
- CYBERBIZ 開放程式的串接端口，讓商家找人串接。通常他們要有自己的主機、自己寫程式、固定時間來呼叫 API 拿到他想要的資料、或是改相關的資料
- 2021-06-11
 - 企業版 API 串接免費
 - API 的功能，只提供給企業版

什麼是 Webhook?

- Webhook 的功能，只提供給企業版 (2018-08-28)
- 當某些事件發生的時候，CYBERBIZ 系統可以主動通知
 - 舉例當消費者下了一筆單，使用了紅利。CYBERBIZ 可以主動、即時通知到商家後台設定的一個 HTTPS 網址。所以就可以做到在電商平台使用了紅利，在他的 CRM 平台就可以即時知道。如果沒有 webhook，就只能例如每天來 CYBERBIZ 撈一次資料。

API 的文件

- 文件放在 <https://api-doc.cyberbiz.co/> 連上之後，會看到下圖的畫面，會需要輸入「Username」與「Secret」



- 不同的商店，需要有不同的 username 與 secret，才可以撈到該商店的資料
 - 所以 username 與 secret 是要依照商店申請。例如 XYZ 有限公司，在 CYBERBIZ 開了 2 個站，一個是 <https://xyzshop.cyberbiz.co>，一個是 <https://xyzstore.cyberbiz.co>，他二個商店都需要申請一組 username、secret。
 - API 串接，一律打到 <https://api.cyberbiz.co>，不會因為不同商家使用不同的網址。
- CYBERBIZ 提供一個 EC 測試的商店，可以測試串接 API、Webhook；一個 POS 的測試商店，可以測試 POS 相關功能

- 在 <https://api-doc.cyberbiz.co> 使用的 username、secret
 - ◆ EC
 - username: apidemo
 - secret: apidemo
 - 使用 apidemo 這個帳密，測試的資料，都是 apidemo.cyberbiz.co 這個商店的
 - 測試用只允許上限 2kb 的請求
 - ◆ POS
 - username: apidemopos
 - secret: apidemopos
 - 使用 apidemopos 這個帳密，測試的資料，都是 apidemopos.cyberbiz.co 這個商店的
 - 測試用只允許上限 2kb 的請求
- 在 apidemo.cyberbiz.co 串接、測試完之後。只要把 username、secret 換成自己的商店的，資料就會是正式商店的資料
- 使用 <https://api-doc.cyberbiz.co>
 - 輸入 username、secret 後。可以看到文件、並且可以直接在網頁上操作、測試 API 的使用
 - API 撈到的資料，就是這組 username、secret 對應到的商家
 - 使用 apidemo、apidemo 這組帳密，可以測試 apidemo.cyberbiz.co
 - ◆ 例如我在 api-doc.cyberbiz.co 登入帳密之後，可以測試使用 GET /v1/orders 這個 API。
 - ◆ 直接按「**Try it out!**」的按鈕，就是即時的打 API 到 CYBERBIZ，並且回傳的資料會顯示網頁上，包含 HTTP Response Headers、HTTP Response Code、Response Body



- API 取得所有商品資料範例 (GET /v1/products)
與建立新商品 (POST /v1/products)

- C#

```
using System;
using System.IO;
using System.Net;
using System.Security.Cryptography;
using System.Text;

namespace Cyberbiz
{
    public class ApiTest
    {
        public static void Main(string[] args)
        {
            Console.WriteLine("==== Get Example =====");
            TryGet();
            Console.WriteLine("=====");
            Console.WriteLine("=====");
            Console.WriteLine("==== Post Example =====");
            TryPost();
        }

        private static void TryGet()
        {
            string userName = "apidemo";
            string secret = "apidemo";

            // Sample 1 for GET
            string httpMethod = "GET";
            string apiUrlBase = "https://api.cyberbiz.co";
            string apiUrlPath = "/v1/products";
            string headers = "x-date request-line";

            // api url
            string apiUrl = apiUrlBase + apiUrlPath;
```

```

Uri uri = new Uri(apiUrl);

// x-date
string dete = DateTime.Now.ToUniversalTime().ToString("r");
Console.WriteLine("==== x-date =====");
Console.WriteLine(dete);
Console.WriteLine("=====");

// request-line
string rline = httpMethod + " " + apiUrlPath + " HTTP/1.1";
Console.WriteLine("==== request-line =====");
Console.WriteLine(rline);
Console.WriteLine("=====");

// sig_str
string sig_str = "x-date: " + dete + "\n" + rline;
Console.WriteLine("==== sig_str =====");
Console.WriteLine(sig_str);
Console.WriteLine("=====");

// authorization
UTF8Encoding encoding = new UTF8Encoding();
byte[] keyByte = encoding.GetBytes(secret);
HMACSHA256 hmacsha256 = new HMACSHA256(keyByte);
byte[] messageBytes = encoding.GetBytes(sig_str);
byte[] hashmessage = hmacsha256.ComputeHash(messageBytes);
string signature = Convert.ToBase64String(hashmessage);
string authorization = string.Format("hmac username=\"{0}\",
algorithm=\"hmac-sha256\", headers=\"{1}\", signature=\"{2}\"", userName, headers,
signature);
Console.WriteLine("==== authorization =====");
Console.WriteLine(authorization);
Console.WriteLine("=====");

HttpWebRequest webRequest = (HttpWebRequest) WebRequest.Create(uri);
webRequest.Method = httpMethod;
webRequest.Headers.Add("Authorization", authorization);
webRequest.Headers.Add("X-Date", dete);

```

```

WebResponse webResponse;
Stream dataStream;
StreamReader reader;
string responseFromServer;
try
{
    webResponse = webRequest.GetResponse();
    dataStream = webResponse.GetResponseStream ();
    reader = new StreamReader (dataStream);
    responseFromServer = reader.ReadToEnd ();
    Console.WriteLine("==== Done " + httpMethod + " =====");
    Console.WriteLine (responseFromServer);
    Console.WriteLine("=====");
    reader.Close();
    webResponse.Close();
}
catch (System.Net.WebException e)
{
    Console.WriteLine("==== Exception =====");
    Console.WriteLine(e);
    Console.WriteLine("====");
    Console.WriteLine(e.Message);
    Console.WriteLine("====");
    dataStream = e.Response.GetResponseStream ();
    reader = new StreamReader (dataStream);
    responseFromServer = reader.ReadToEnd ();
    Console.WriteLine(responseFromServer);
    Console.WriteLine("=====");
    reader.Close();
}
}

private static void TryPost()
{
    string userName = "apidemo";
    string secret = "apidemo";
}

```

```

// Sample 2 for POST
string httpMethod = "POST";
string apiUrlBase = "https://api.cyberbiz.co";
string apiUrlPath = "/v1/products";
string headers = "x-date request-line digest";

// api url
string apiUrl = apiUrlBase + apiUrlPath;
Uri uri = new Uri(apiUrl);

// x-date
string dete = DateTime.Now.ToUniversalTime().ToString("r");
Console.WriteLine("==== x-date =====");
Console.WriteLine(dete);
Console.WriteLine("=====");

// request-line
string rline = httpMethod + " " + apiUrlPath + " HTTP/1.1";
Console.WriteLine("==== request-line =====");
Console.WriteLine(rline);
Console.WriteLine("=====");

// digest
string body =
Uri.EscapeUriString("title=testcs&handle=testcs&published=true&price=100");
byte[] bytes = Encoding.UTF8.GetBytes(body);
SHA256Managed hashstring = new SHA256Managed();
byte[] hash = hashstring.ComputeHash(bytes);
string digest = "SHA-256=" + Convert.ToBase64String(hash);
Console.WriteLine("==== digest =====");
Console.WriteLine(digest);
Console.WriteLine("=====");

// sig_str
string sig_str = "x-date: " + dete + "\n" + rline + "\n" + "digest: " +
digest;
Console.WriteLine("==== sig_str =====");
Console.WriteLine(sig_str);

```



```

Console.WriteLine("=====");

// authorization
UTF8Encoding encoding = new UTF8Encoding();
byte[] keyByte = encoding.GetBytes(secret);
HMACSHA256 hmacsha256 = new HMACSHA256(keyByte);
byte[] messageBytes = encoding.GetBytes(sig_str);
byte[] hashmessage = hmacsha256.ComputeHash(messageBytes);
string signature = Convert.ToBase64String(hashmessage);
string authorization = string.Format("hmac username=\"{0}\",
algorithm=\"hmac-sha256\", headers=\"{1}\", signature=\"{2}\"", userName, headers,
signature);

Console.WriteLine("==== authorization =====");
Console.WriteLine(authorization);
Console.WriteLine("=====");

HttpWebRequest webRequest = (HttpWebRequest) WebRequest.Create(uri);
webRequest.Method = httpMethod;
webRequest.Headers.Add("Authorization", authorization);
webRequest.Headers.Add("X-Date", dete);
webRequest.Headers.Add("Digest", digest);
webRequest.ContentType = "application/x-www-form-urlencoded";
using (Stream st = webRequest.GetRequestStream())
{
    st.Write(bytes, 0, bytes.Length);
}

WebResponse webResponse;
Stream dataStream;
StreamReader reader;
string responseFromServer;
try
{
    webResponse = webRequest.GetResponse();
    dataStream = webResponse.GetResponseStream ();
    reader = new StreamReader (dataStream);
    responseFromServer = reader.ReadToEnd ();
    Console.WriteLine("==== Done " + httpMethod + " =====");
}

```

```

    Console.WriteLine (responseFromServer);
    Console.WriteLine("=====");
    reader.Close();
    webResponse.Close();
}
catch (System.Net.WebException e)
{
    Console.WriteLine("==== Exception =====");
    Console.WriteLine(e);
    Console.WriteLine("====");
    Console.WriteLine(e.Message);
    Console.WriteLine("====");
    dataStream = e.Response.GetResponseStream ();
    reader = new StreamReader (dataStream);
    responseFromServer = reader.ReadToEnd ();
    Console.WriteLine(responseFromServer);
    Console.WriteLine("=====");
    reader.Close();
}
}
}
}
}

```

● Phyton

```
# -*- coding: utf-8 -*-

import time
import hmac
import hashlib
import base64
import requests

username = 'apidemo'
secret = b'apidemo'

# Sample 1 for GET
print('==== Get Example ====')
http_method = 'GET';
url_base = 'https://api.cyberbiz.co'
url_path = '/v1/products'
headers = 'x-date request-line'

# api url
url = url_base + url_path

# x-date
x_date = time.strftime('%a, %d %b %Y %H:%M:%S GMT', time.gmtime())
print('==== x-date ====')
print(x_date)
print('=====')

# request-line
rline = http_method + ' ' + url_path + ' HTTP/1.1'
print('==== request-line ====')
print(rline)
print('=====')

# payload
payload = 'page=1&per_page=50&offset=0'
```

```

# sig_str
sig_str = 'x-date: ' + x_date + '\n' + rline
print('==== sig_str ====')
print(sig_str)
print('====')

# authorization
dig = hmac.new(secret, msg=sig_str, digestmod=hashlib.sha256).digest()
sig = base64.b64encode(dig).decode()
auth = 'hmac username="' + username + '", algorithm="hmac-sha256", headers="' +
headers + '", signature="' + sig + "'"
print('==== authorization ====')
print(auth)
print('====')

request_headers = {'X-Date': x_date, 'Authorization': auth}
r = requests.get(url, headers=request_headers, params=payload)
print('==== Done ' + http_method + ' ====')
print(r.text)
print('====')

print('====')
print('====')

# Sample 2 for POST
print('==== POST Example ====')
http_method = 'POST';
url_base = 'https://api.cyberbiz.co'
url_path = '/v1/products'
headers = 'x-date request-line digest'

# api url
url = url_base + url_path

# x-date
x_date = time.strftime('%a, %d %b %Y %H:%M:%S GMT', time.gmtime())
print('==== x-date ====')
print(x_date)

```

```

print('=====')

# request-line
rline = http_method + ' ' + url_path + ' HTTP/1.1'
print('==== request-line ====')
print(rline)
print('=====')

# payload and digest
payload = 'title=testpy&handle=testpy&published=true&price=100'
digest = 'SHA-256=' + base64.b64encode(hashlib.sha256(payload).digest())

# sig_str
sig_str = 'x-date: ' + x_date + '\n' + rline + '\n' + 'digest: ' + digest
print('==== sig_str ====')
print(sig_str)
print('=====')

# authorization
dig = hmac.new(secret, msg=sig_str, digestmod=hashlib.sha256).digest()
sig = base64.b64encode(dig).decode()
auth = 'hmac username="' + username + '", algorithm="hmac-sha256", headers="' +
headers + '", signature="' + sig + '"'
print('==== authorization ====')
print(auth)
print('=====')

request_headers = {'X-Date': x_date, 'Digest': digest, 'Authorization': auth,
'Content-Type': 'application/x-www-form-urlencoded'}
r = requests.post(url, headers=request_headers, data=payload)
print('==== Done ' + http_method + ' ====')
print(r.text)
print('=====')

```

● PHP

```
<?php

$username = 'apidemo';
$secret = 'apidemo';

# Sample 1 for GET
echo('==== Get Example ===='.PHP_EOL);
$ch = curl_init();
$http_method = 'GET';
$url_base = 'https://api.cyberbiz.co';
$url_path = '/v1/products';
$headers = 'x-date request-line';

# api url
$url = $url_base.$url_path;

# x-date
$x_date = gmdate("D, d M Y H:i:s", time()).' GMT';
echo('==== x-date ===='.PHP_EOL);
echo($x_date.PHP_EOL);
echo('===='.PHP_EOL);

# request-line
$rline = "$http_method $url_path HTTP/1.1";
echo('==== request-line ===='.PHP_EOL);
echo($rline.PHP_EOL);
echo('===='.PHP_EOL);

# payload
$payload = 'page=1&per_page=50&offset=0';
$url = "$url?$payload";

# sig_str
$sig_str = "x-date: $x_date\n$rline";
echo('==== sig_str ===='.PHP_EOL);
echo($sig_str.PHP_EOL);
```

```

echo('=====' .PHP_EOL);

# authorization
$sig = base64_encode(hash_hmac('sha256', $sig_str, $secret, true));
$auth = "hmac username=\"\$username\", algorithm=\"hmac-sha256\",
headers=\"\$headers\", signature=\"\$sig\"";
echo('==== authorization ===='.PHP_EOL);
echo($auth.PHP_EOL);
echo('=====' .PHP_EOL);

$get_header[] = "X-Date: $x_date";
$get_header[] = "Authorization: $auth";
curl_setopt($ch, CURLOPT_HTTPHEADER, $get_header);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
curl_setopt($ch, CURLOPT_URL, $url);
$data = curl_exec($ch);
curl_close($ch);
echo('==== Done ' . $http_method . ' ===='.PHP_EOL);
echo($data.PHP_EOL);
echo('=====' .PHP_EOL);

echo('=====' .PHP_EOL);
echo('=====' .PHP_EOL);

# Sample 2 for POST
echo('==== POST Example ===='.PHP_EOL);
$ch = curl_init();
$http_method = 'POST';
$url_base = 'https://api.cyberbiz.co';
$url_path = '/v1/products';
$headers = 'x-date request-line digest';

# api url
$url = $url_base.$url_path;

# x-date
$x_date = gmdate("D, d M Y H:i:s", time()).' GMT';
echo('==== x-date ===='.PHP_EOL);

```

```

echo($x_date.PHP_EOL);
echo('=====' .PHP_EOL);

# request-line
$rline = "$http_method $url_path HTTP/1.1";
echo('==== request-line =====' .PHP_EOL);
echo($rline.PHP_EOL);
echo('=====' .PHP_EOL);

# payload
$params = [
    'title' => 'testphp',
    'handle' => 'testphp',
    'published' => 'true',
    'price' => 100
];
$payload = http_build_query($params);
$digest = "SHA-256=".base64_encode(hash('sha256', $payload, true));

# sig_str
$sig_str = "x-date: $x_date\n$rline\ndigest: $digest";
echo('==== sig_str =====' .PHP_EOL);
echo($sig_str.PHP_EOL);
echo('=====' .PHP_EOL);

# authorization
$sig = base64_encode(hash_hmac('sha256', $sig_str, $secret, true));
$auth = "hmac username=\"\$username\", algorithm=\"hmac-sha256\",
headers=\"\$headers\", signature=\"\$sig\"";
echo('==== authorization =====' .PHP_EOL);
echo($auth.PHP_EOL);
echo('=====' .PHP_EOL);

$post_header[] = "X-Date: $x_date";
$post_header[] = "Digest: $digest";
$post_header[] = "Authorization: $auth";
curl_setopt($ch, CURLOPT_HTTPHEADER, $post_header);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);

```

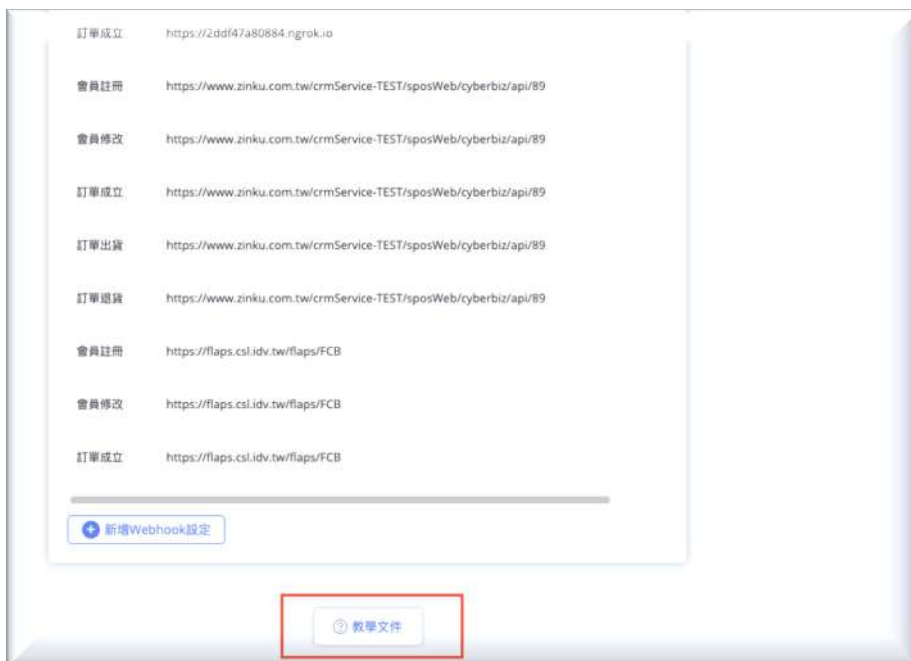


```
curl_setopt($ch, CURLOPT_POST, true);
curl_setopt($ch, CURLOPT_POSTFIELDS, $payload);
curl_setopt($ch, CURLOPT_URL, $url);
$data = curl_exec($ch);
curl_close($ch);
echo('==== Done ' . $http_method . ' ===='.PHP_EOL);
echo($data.PHP_EOL);
echo('===='.PHP_EOL);

?>
```

Webhook

- EC 後台 「管理中心」 -> 「Webhook 設定」, 點選 『教學文件』, 裡面就是詳細文件



即會看到以下內容

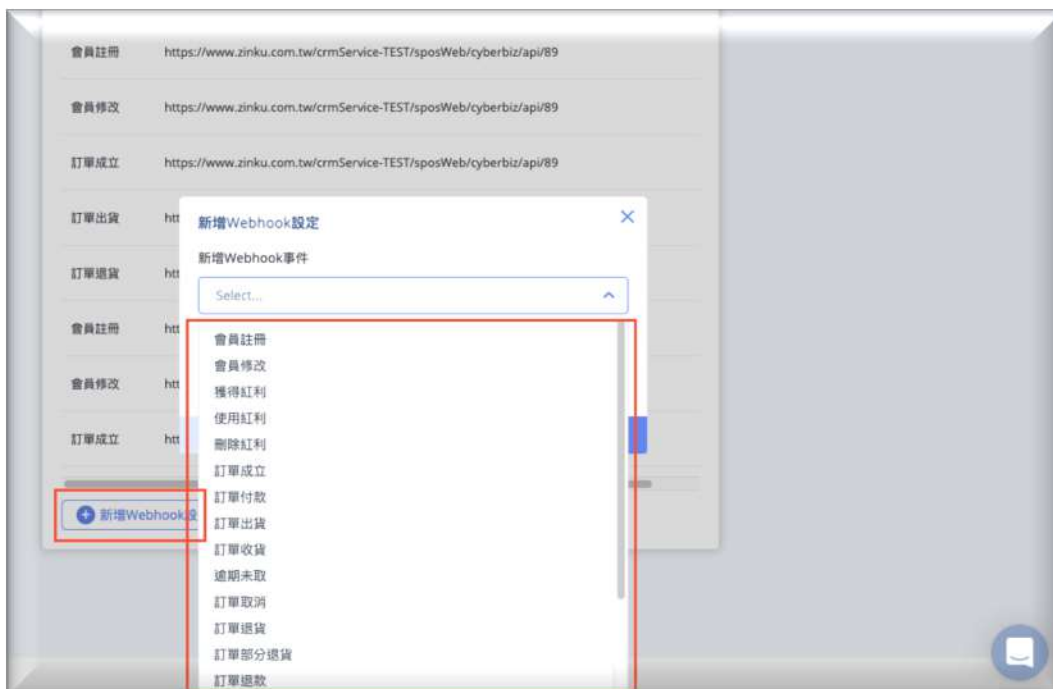
Cyberbiz Webhook

Webhooks

當特定事件發生時，以 HTTP/POST 的方式傳送 Request 到指定的 HTTPS 網址

類型	事件
會員	customers/create (會員註冊)
	customers/update (會員修改)
紅利點數	bonus_points/create (獲得紅利)
	bonus_points/update (使用紅利)
	bonus_points/destroy (刪除紅利)
訂單	orders/create (訂單成立)
	orders/paid (訂單付款)
	orders/fulfilled (訂單出貨)
	orders/received (訂單收貨)
	orders/expired (逾期未取)
	orders/cancelled (訂單取消)
	orders/returned (訂單退貨)
	orders/partial_return (訂單部分退貨)
	orders/refunded (訂單退款)

- CYBERBIZ 提供一個測試的商店，可以測試串接 API、Webhook
 - 文件：<https://apidemo.cyberbiz.co/admin/webhooks/document>
 - 可至 <https://apidemo.cyberbiz.co/admin/webhooks> 作設定
 - Webhook 需要用到 HMAC key:
54EZH1ZFKJVGXR7MRCEA1KOKE2C9FHUB
- 目前提供哪些事件？
 - 至「管理中心」->「Webhook 設定」，點選「新增 Webhook 設定」的地方，即可以看到所有可以設定的事件



CYBERBIZ

www.cyberbiz.io

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