



# IRAS API PORTAL

## User Guide

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Version No: 2.0

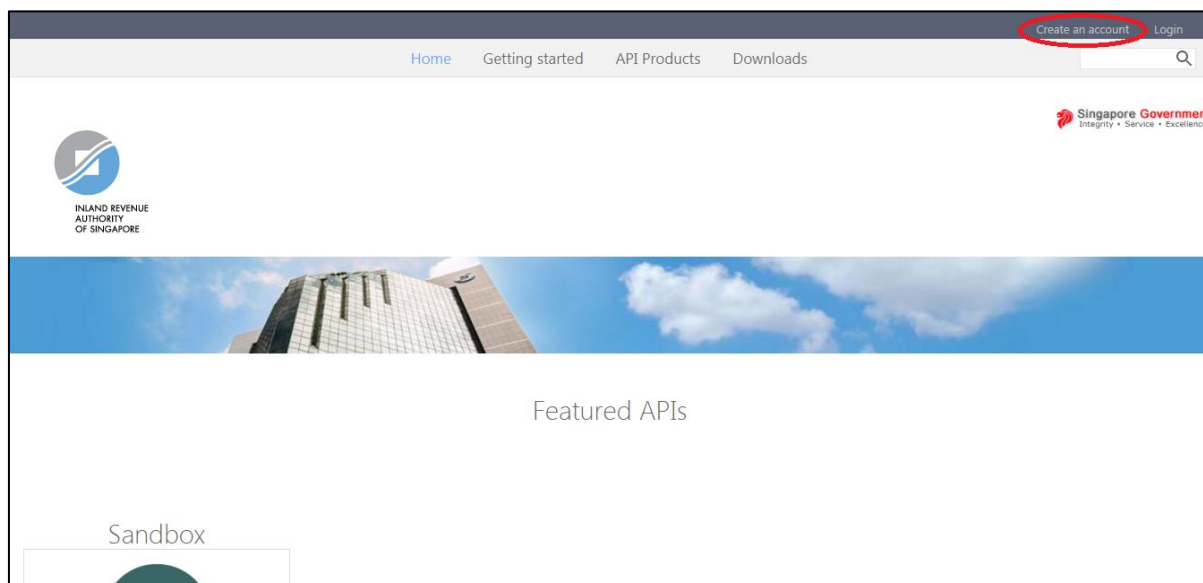
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## I. Create an Account

To use the sandbox portal, you need to create an account.

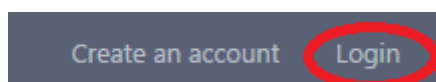
- Click on **“Create an account”**.



- On the next page, enter the required information. You will need to input a valid e-mail address in order to proceed to the next step.
- Click **“Create new account”** to proceed.
- You should receive an activation e-mail afterwards. Sometimes, the email can land in your junk / spam folders. So be sure to check all folders.
- Click the activation link sent to your email address.

## II. Login to the portal

- After you have activated your account, proceed to log in.

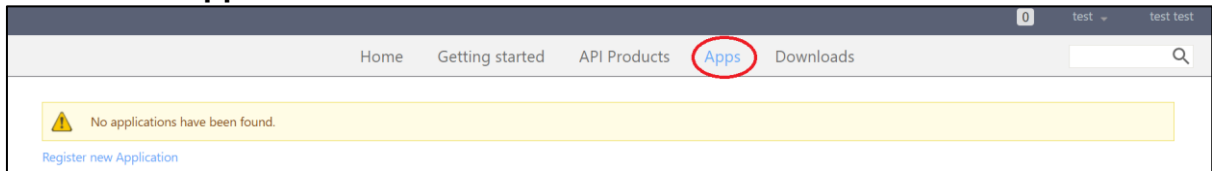


- You will be re-directed to the home page afterwards.

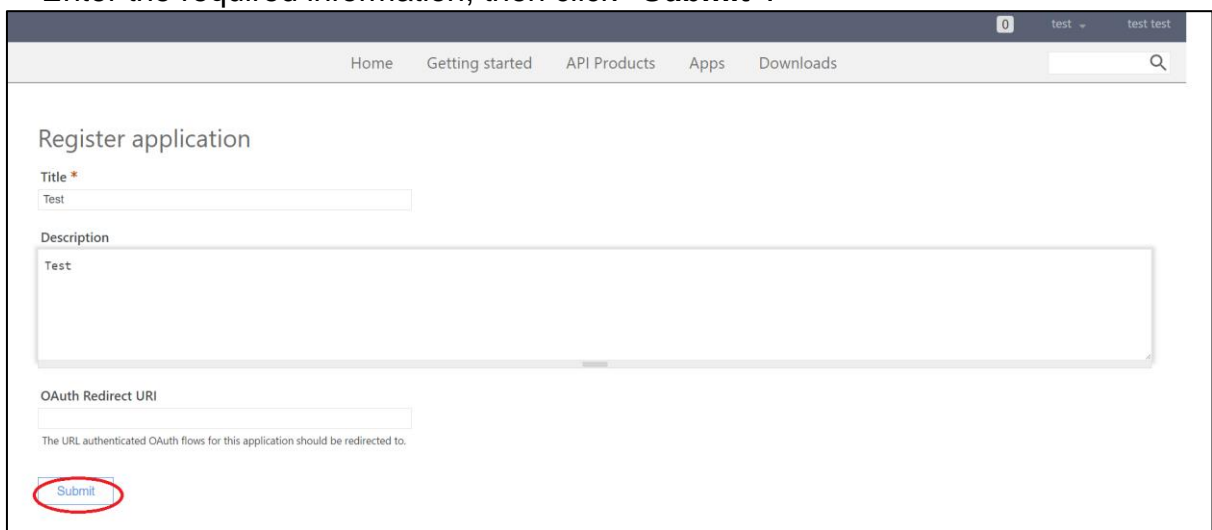
### III. Register Application

You must register your application(s) to get the unique Client ID and Client Secret that will be used for authentication when calling your APIs.

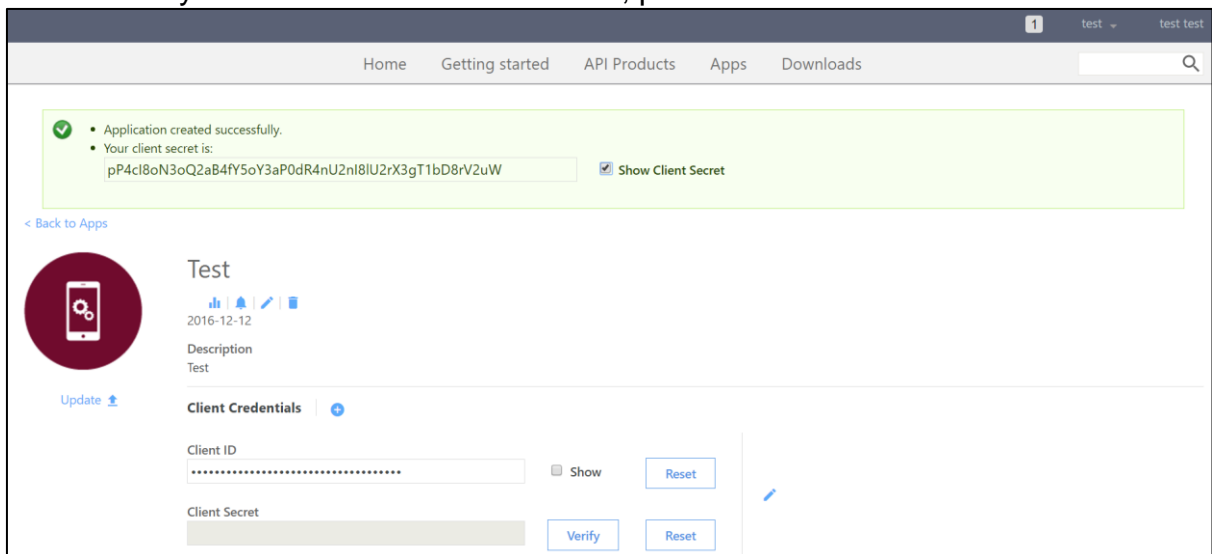
- Click on “**Apps**” from the Menu bar.



- Click on “**Register new Application**”.
- Enter the required information, then click “**Submit**”.



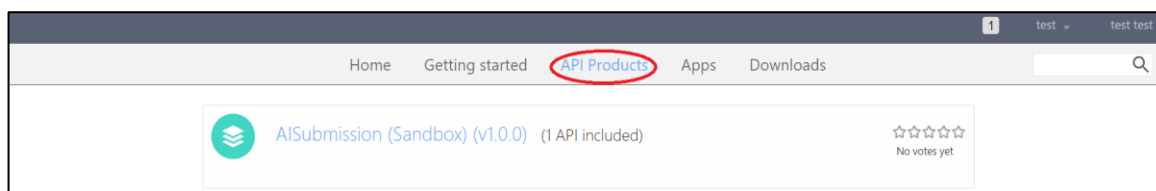
- Your application has now been registered.
- Tick “**Show Client Secret**” to take note of the Client Secret.
- Every registered application will have their own unique Client ID and Client Secret. If you lose the Client ID or Secret, please use the Reset function.



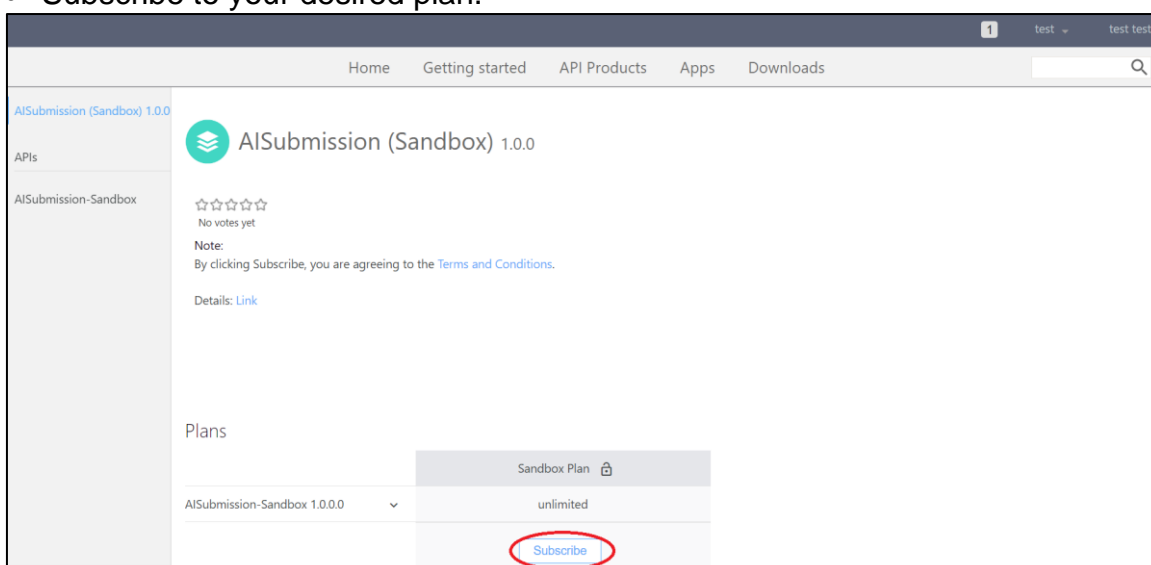
## IV. Subscribe to a plan

After getting the Client ID and Secret, you need to subscribe your application to the API service.

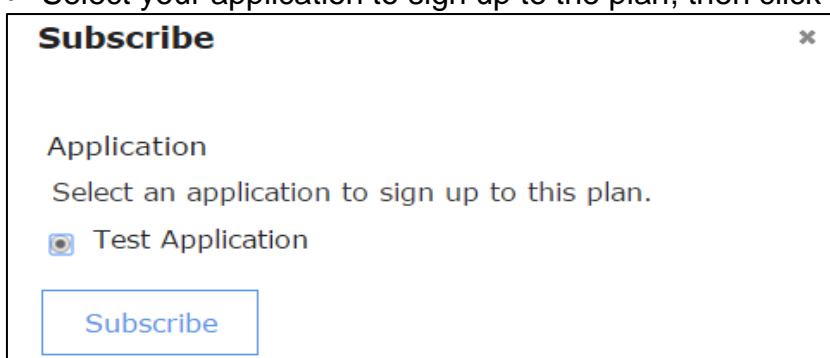
- Click on “**API Products**” from the Menu bar.



- Select a product.
- Subscribe to your desired plan.

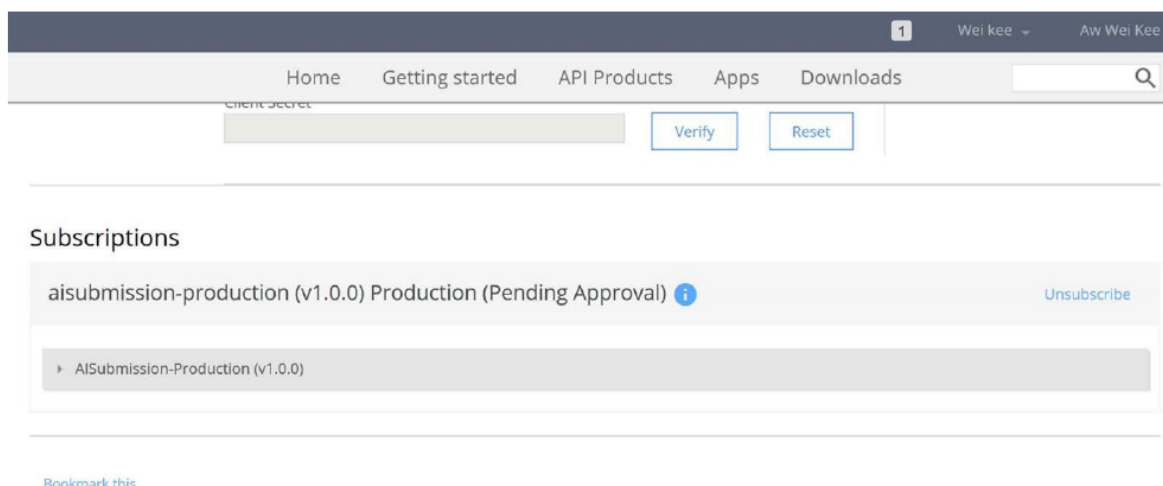


- Select your application to sign up to the plan, then click “**Subscribe**”.



- ❖ For non-restricted API service, the request for subscription of API service will be granted immediately.
- ❖ For restricted API service which involve accessing/update of sensitive information, the request for subscription of API service will require approval from IRAS before applicant can proceed with using the API service. The criteria and turnaround time for the approval is shared in the requirements of the API service.

- Once our IRAS officer approves your subscription, you will receive an email “ Your request for plan subscription for app<App Name> with plan <Plan name> has been approved”.
- Alternatively applicant can check the status of the subscription request at “**Apps**” from menu bar.



## V. Calling the API Endpoint

After subscribing to the API service, you are now ready to use the API service. Below is a sample code for your reference. Please refer to the individual API Service for more details on the requirements.

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

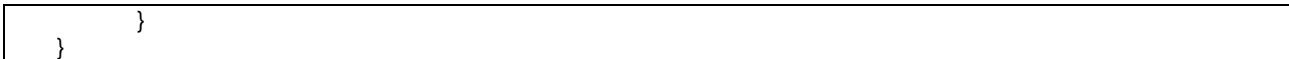
// jsonData – contains data from Section 3.1.1 of this document
public static void callWebAPI(string jsonData)
{
    //Step 0 : Call ServerCertificateValidationCallback
    ServicePointManager.ServerCertificateValidationCallback += (sender, cert, charin, sslPolicyErrors) => true;

    // Step 1: Construct URL
    String url = "https://apisandbox.iras.gov.sg/iras/sb/XXXXX";

    try
    {
        var httpWebRequest = (HttpWebRequest)WebRequest.Create(url);
        httpWebRequest.ContentType = "application/json";
        httpWebRequest.Method = "POST";

        //Step 2: Enter the Client-Id given by IRAS
        httpWebRequest.Headers["X-IBM-Client-Id "] = "a4434a0b-1514-4dc6-b4f7-db5316bfd647";
        //Step 3: Enter the Client-Secret given by IRAS
        httpWebRequest.Headers["X-IBM-Client-Secret"]
            ="qO3eB0GC2eF5cV7tR1oY6tG5wL8nX6cR5rN0tH1hF3pF6dB6wL";

        // Step 4: Call API using POST
        using (var streamWriter = new StreamWriter(httpWebRequest.GetRequestStream()))
        {
            streamWriter.Write(jsonData);
            streamWriter.Flush();
            streamWriter.Close();
        }
        // Step 4a: Output response
        var httpResponse = (HttpWebResponse)httpWebRequest.GetResponse();
        using (var streamReader = new StreamReader(httpResponse.GetResponseStream()))
        {
            var result = streamReader.ReadToEnd();
            //print the received reponse
            Console.WriteLine(result);
        }
    }
    catch (WebException e)
    {
        if (!string.IsNullOrEmpty(e.Message))
        {
            // Step 4b: Print general errors
            Console.WriteLine("Exception - ");
            Console.WriteLine(e.Message);
        }
        if (e.Response != null)
        {
            // Step 4c: Print Output response exception
            Stream receiveStream = e.Response.GetResponseStream();
            StreamReader readStream = new StreamReader(receiveStream, Encoding.UTF8);
            // print the error received from Server
            Console.WriteLine("Response error received - ");
            Console.WriteLine(readStream.ReadToEnd());
        }
    }
}
```



## VI. Manage Organisation

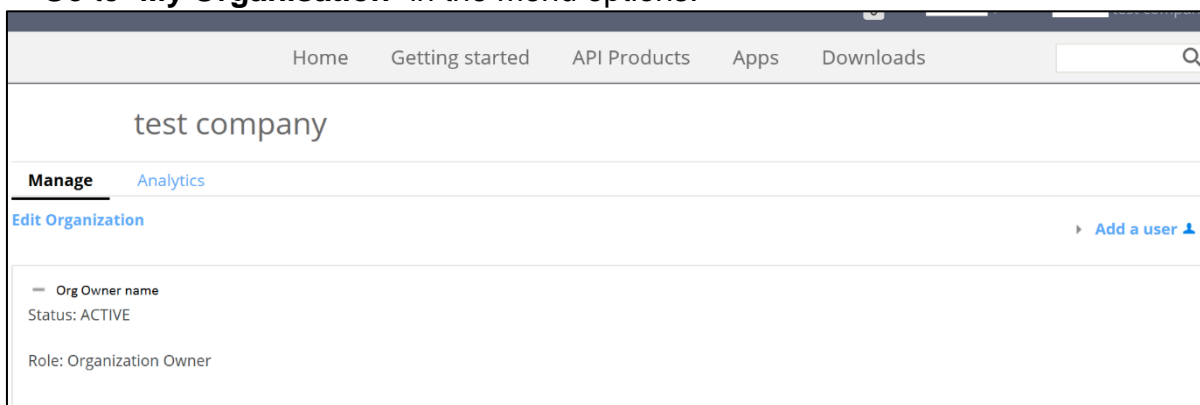
If you intend to invite your team members to use the API portal, you may use the **“My Organisation”** function.

There are 2 roles which you can assign to your team member(s).

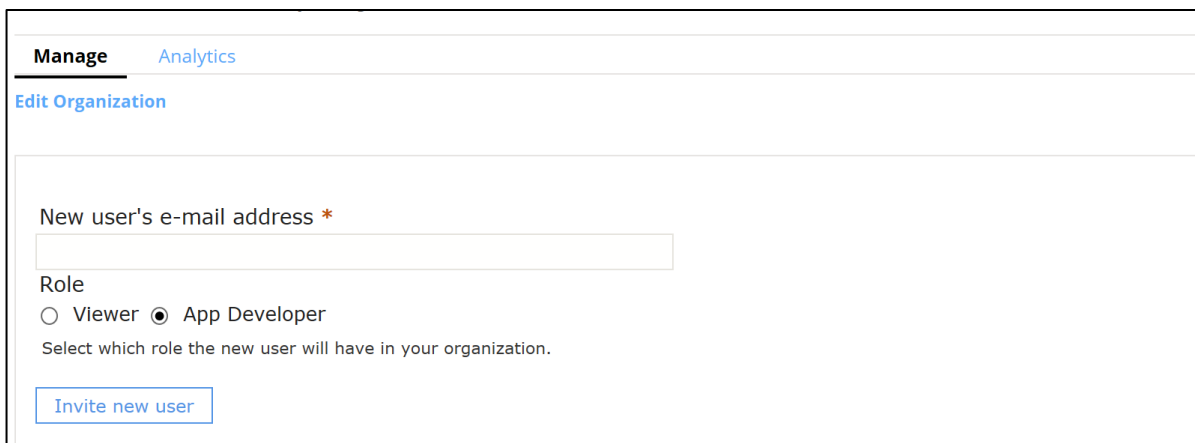
Viewer : can only view applications and application activity.

App Developer : can create and edit applications, manage client keys and subscribe to plans.

- Go to **“My Organisation”** in the menu options.



- Click on **“Add a user”**.
- Enter the email address of the new user and select the role to be assigned.



- Email will be received by the new user, as shown below.



Hello,

You are invited to join Test company

If you have used API Connect before, please use your existing credentials to sign in.

If you have not yet activated your account, you will receive an activation link in a separate e-mail.

To log in to your account, click the following link:

<https://apisandbox.iras.gov.sg/iras/devportal/sb>

Thanks,