Lab3 - Publish your API

API Connect

API Connect is the API Management framework built by IBM. API Connect integrates with Loopback and is available as an API Connect service on IBM Cloud.

See: https://developer.ibm.com/apiconnect/getting-started

Lab3

1. Create API Connect service instance on IBM Cloud

   - Login to https://cloud.ibm.com,

   - Go to the Catalog

   - Search the catalog... for `API Connect` in the `Integration` category,

   - Click the `API Connect` service panel,

   - Optionally, edit the service name, location, and space,

   - Click the `Create` button,

   - If the page does not load correctly in Google Chrome, try Firefox,

   - By default, API Connect creates a Sandbox Catalog,

   - Open the Sandbox Catalog,

   - Currently, there are no products published in the Sandbox,

2. From the local API Designer publish the product as `stage only` to the IBM Cloud

   - Start the API Designer on your localhost to load the products created in Lab1 and Lab2,

   ```
   $ apic edit
   ```

   - Go to the APIs tab,

   - Select the `apic-api 1.2.0` API,

   - Go to the `Info` section, and change the `Version` to `1.2.1`,

   - Go to the `Schemes` section,

   - The API Connect service on IBM Cloud requires and allows only the `https` Scheme, so disable the `http` protocol and enable only the `https` protocol,

- Click the `Validate` icon,

- Click the `Save` icon,

- From the dropdown in the top right, select the `Add to existing products`,

- Select the `1.2.0` option,

- Click the `Add` button,

- Go to the Products tab,

- Open the `apic-api 1.2.0` product,

- In the Plan designer, go to the `Default Plan` section, and in the `1 API included` section, unfold the `apic-api 1.2.0` to list all the API methods,

- Uncheck the writeable API methods:

  - Post.create
  - Post.updateAll
  - Post.updateById
  - Popst.deleteById

- Click the `Save` button,

- Click the Publish button,

- Select `Add and Manage Targets`,

- Select the `Add IBM Cloud target` option,

- Configure the settings corresponding to those in your API Connect service instance:

  - Select the Region,

  - Select the Organization and Space,

  - API Connect loads the catalogs that match the configured settings, if correct you should see the catalog named `Sandbox`,

  - Select `Sandbox` catalog and click `Next`,

  - Leave the application name empty for now, and select `None`,

  - Click the `Save` button,

  - You have now added a target for the product,

  - Again click the Publish button,

  - Select the `Sandbox (sb)` target,

  - Check the `Stage Only` option,

- Click the `Publish` button,

  - Go back to https://cloud.ibm.com,

  - In the `Resource summary` select the `View resources` link,

  - Under `Cloud Foundry Services`, select the API Connect instance you created,

  - Select the `Sandbox` catalog,

  - Under the `Products` tab you should see the product that you ppublished in the previous step, the `State` should display `Staged`,

3. Add a Developer Portal,

  - In the Sandbox catalog, click the Settings,
  - Go to the `Portal` in the left column,
  - In the `Portal Configuration`, under `Select portal` dropdown, select the `IBM Developer Portal`,
  - Click the `SSave` icon,
  - You will see a popup window `Creating the developer portal... Creating the developer portal for catalog 'Sandbox' may take a few minutes. You will receive an email when the portal is available."
  - Click `OK`,

4. Publish the staged product,

  - Go back to the `Products` tab,
  - Select the options dropdown to the right of the `apic-api 1.2.0` staged product,
  - Click `Publish`
  - Click `Publish`
  - The state of the product should change to `Published`

5. Sign up, Add an Application and Subscribe to the APIs

  - Keep at eye at your email inbox and wait for the email with subject `Your new site https://sb-<your-name>.developer.us.apiconnect.ibmcloud.com has been created.` email,

  - Open the email and click on the `change the password for the admin user` link, click the `Log in` link, change your password, and click `Save`,

  - Logout of the `admin` account,

  - Click the `Create an account` link,

  - Sign up with your personal information,

  - Click the `Create an account` button,

  - You should receive a `Thank you for signing up for our APIs` email with an activation link,

  - After successful activation, login with your confirmed developer account,

- Click the `Apps` tab, and click the `Create new App` button,

- For `Title` add `APIC App`, and click `Submit`,

  - Save the Client Secret and Client ID,
  - E.g. Client ID: tI2vE6mL7qX1lX1qV7uU0kX1bA5mA2iQ5bN6wP4pX6iL6gA0qL
  - Client Secret: 2bfa445e-5d83-4c22-9a9d-e851f87a080f

- Go to the `API Products` tab,

- Select the `apic-api (1.2.0)(1 API included)` API Product,

- Under Plans, select the `apic-api 1.2.1` plan and click the `Subscribe` button,

- In the `Subscribe` window, select the `APIC App` option,

- Click the `Subscribe` button,

- At the top of the page, you should see a `Successfully subscribed to this plan` notification,

- Go to `Apps`, `APIC App` application, and in the `Subscriptions` window you should see your subscription listed now,

- Go to the `Getting Started` tab,

- Click the `Explore our APIs` button,

- Or go directly to the `API Products` page,

- Select the `apic-api (1.2.0)(1 API included)` API Product,

- In the left menu, under APIs, select the `apic-api` option,

- The Explorer window opens,

- Remember that we did not select an Application when we staged and published the API, so currently you will get a 500 error when you test out the API endpoints.

```
curl GET 'https://api.us-
south.apiconnect.appdomain.cloud/remkohdevusibmcom-
dev/sb/api/Posts'
curl: (6) Could not resolve host: GET
{ "httpCode":"500", "httpMessage":"Internal Server Error",
"moreInformation":"Backside URL invalid" }
```