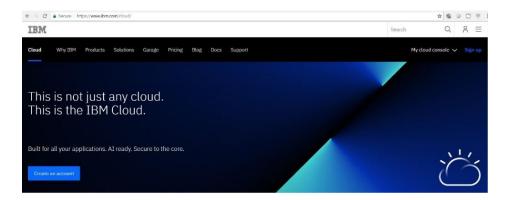
1. Environment Setup

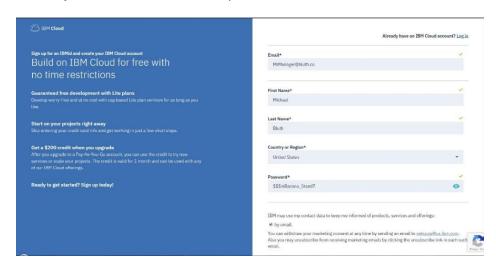
- 1.1. Create an IBM Cloud Account (Skip if you have one)
- Step (1)

Navigate to www.ibm.com/cloud, Click the Blue "Create Account" Button

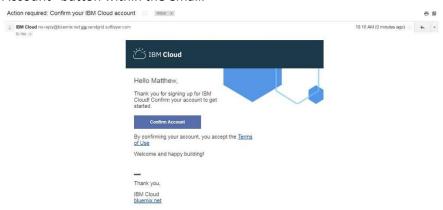


Step (2)

Create your account details and password



You will receive an Account Confirmation Email at the address you provided. Click the blue "Confirm Account" button within the email.



You will immediately be provided with a copy of the IBMid Privacy Policy. Read the policy, then click "Proceed"

hav	notice provides information about accessing your IBMid user account (Account). If you a previously been presented with a version of this notice, please refer to "Changes since previous version of this notice" below for information about the new updates.
+	Changes since the previous version of this notice
+	What data does IBM collect?
+	Why IBM needs your data
+	How your data was obtained
+	How IBM uses your data
+	How IBM protects your data
+	How long we keep your data
You	ur rights
pro	Privacy Statement provides more information about your personal data rights. It also vides contact information if you have questions or concerns regarding our handling of your sonal data.
A	cknowledgement
	knowledge that I understand how IBM is using my Basic Personal Data and I am at least years of age.
	Proceed Cancel Sign In

Write down your organization information:

Table 1:

Organization:	
Space:	

1.2. Install IBM Bluemix CLI

IBM Cloud CLI provides the command line interface to manage applications, containers, infrastructures, services and other resources in IBM Cloud.

https://console-

<u>dal10.bluemix.net/docs/cli/reference/bluemix_cli/get_started.html#getting-</u>started

• For Mac and Linux, run the following command:

curl -sL https://ibm.biz/idt-installer | bash

• For Windows 10, run the following command as an administrator:

Set-ExecutionPolicy Unrestricted; iex(New-Object Net.WebClient).DownloadString('http://ibm.biz/idt-win-installer')

1.3. Create a Kubernetes Instance on IBM Cloud

To create a free cluster:

- 1. From the <u>IBM Cloud Catalog</u> from **Containers** category, click **Containers in Kubernetes Clusters**.
- 2. Read up on clusters, then click **Create**. Enter a **Cluster Name**. The default cluster type is free. Next time, you can create a standard cluster and define additional customizations, like the number of worker nodes. The cluster will be deleted after 30 days on the lite account.
- 3. Click **Create Cluster**. The details for the cluster open, but the worker node in the cluster takes about 30 minutes to provision. You can see the status of the worker node in the **Worker nodes** tab. When the status reaches Ready, your worker node is ready to be used.

References:

https://console.bluemix.net/docs/containers/container_index.html#container_index

1.4. Install Node.js

Install nodejs from https://nodejs.org/en/download/ which also installs npm. (Please install version 8.12.0)

You can verify the versions of the required or pre-installed software by running the following commands and ensuring that you have the following versions (or higher).

1.5. Install API Connect CLI

<u>Loopback CLI tool:</u> Install loopback command-line interface (CLI) tool using command "npm install -g loopback-cli".

<u>Install IBM API Connect v5 developer toolkit:</u> IBM API Connect is an end-to-end API management solution that uses Loopback to create APIs and provides integrated build and deployment tools. Install IBM API Connect v5 developer toolkit using "npm install -g apiconnect".

You can verify the versions of the required or pre-installed software by running the following commands and ensuring that you have the following versions (or higher).

```
C:\Users\SaiGorti>apic --version
API Connect: v5.0.8.4-iFix (apiconnect: v2.8.39)
```

1.6. Install IBMCLOUD CLI

IBM Cloud CLI provides the command line interface to manage applications, containers, infrastructures, services and other resources in IBM Cloud.

Please go this link https://console-dal10.bluemix.net/docs/cli/reference/bluemix_cli/get_started.html#getting-started

Run the install command:

• For Mac and Linux, run the following command:

curl -sL https://ibm.biz/idt-installer | bash

• For Windows 10, run the following command as an administrator: (Right-click the Windows PowerShell or command line, and select **Run as administrator**)

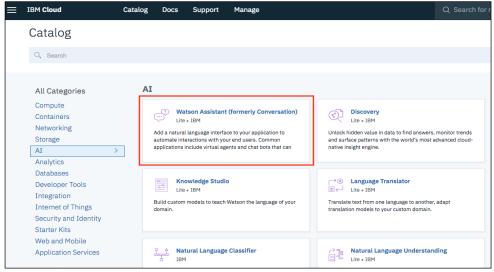
Set-ExecutionPolicy Unrestricted; iex(New-Object Net.WebClient).DownloadString('http://ibm.biz/idt-win-installer')

1.7. Install Kubernetes CLI

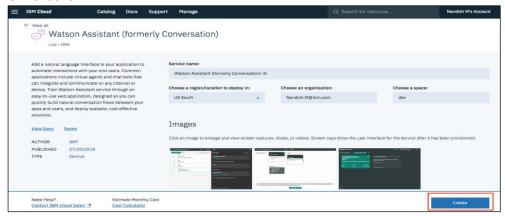
Use the Kubernetes command-line tool, kubectl, to deploy and manage applications on Kubernetes. Using kubectl, you can inspect cluster resources; create, delete, and update components; and look at your new cluster and bring up example apps. https://kubernetes.io/docs/tasks/tools/install-kubectl/

1.8. Create a Watson Assistance service

<u>Create Watson Assistant service</u>
 Navigate to 'Catalog' section in IBM Cloud.
 Select 'Watson Assistant' in 'AI' Category (as shown in image below).



Click 'Create'



• Create a workspace:

Once Watson assistant service is created, you will be able to see this screen.

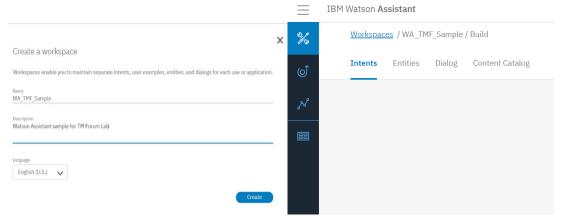


Click "Launch tool" and workspaces tab to create new workspaces. Click "Create" to create a workspace and provide name and description as below.

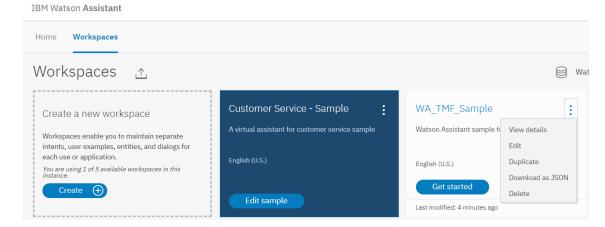
Name: WA_TMF_Sample

Description: Watson Assistant sample for TM Forum Lab

After the workspace is created, click "Back to workspaces" from the menu on left side.



Click "View details" of your workspace to see the "Workspace_ID"



Get the Service Credentials:

Please make a note of username and password of the Watson assistant service and workspace id of the workspace created.

Table 2:

Username:	
Password:	
Workspace ID:	

1.9. Create APIC instance

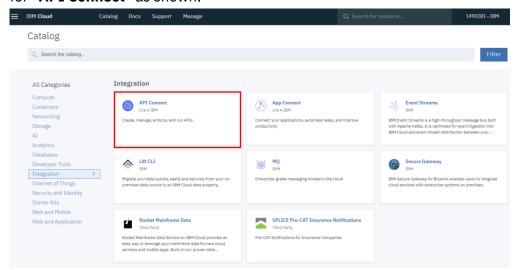
• Step (1)

Within the IBM Cloud Dashboard, navigate to the Catalog using the "Catalog" Button in the upper toolbar



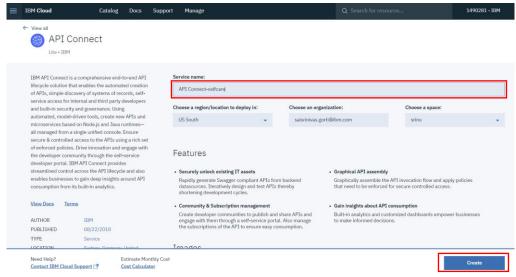
Step (2)

Once in the Catalog, Search for "API Connect" and click the Description Card. Alternatively, click the "Integration" Category in the Left-hand filter menu and look for "API Connect" as shown.



• Step (3)

Give your API Connect service name and select the region, organization and space from the dropdown lists to create API Connect service.



• Step (4)

You will then be redirected to the IBM Cloud Dashboard. Your API Connect Service will appear under the "Cloud Foundry Services" Header.