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English ⌄

Cloud Computing V2

Creating and managing a Cloud Foundry application

The following run times are now available as Cloud Foundry application runtimes:

- Liberty for Java

- SDK for Node.js

- ASP.NET Core

- Runtime for Swift

- XPages

- Go

- PHP

- Python

- Ruby

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Below is an example and steps of creating a Cloud Foundry Application

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1. To create an IBM Cloud Foundry application, click **Create resource** from the dashboard.

2. From the catalog, click **Compute** and then scroll down to **Cloud Foundry** section. Then, choose your application runtime.
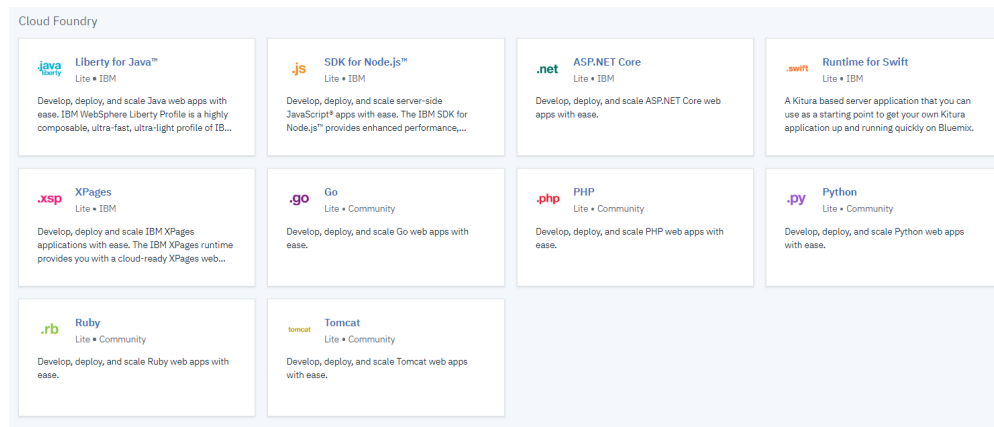
3. Enter your application name and host name. Then, choose the region, organization, and space, and select the pricing plan for this application. If you are using the IBM Cloud Lite account, you are not charged for any usage.

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4. After waiting for your application to be deployed, the application is available and its status has changed from **Starting** to **Running** or **Awake**, based on the account type.

- The first figure shows the application with the status Starting.

- The second figure shows the application after it is successfully started in a Lite account with the status This app is awake.

- The third figure shows the application after it is successfully started in a non-Lite account (Pay-As-You-Go or Subscriber account) with the status Running.

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Host name

Host name must be unique

IBM Cloud hosts your application on the domain that you select. It is preferable that you select appdomain.cloud. You do not share your memory and application instances with other IBM Cloud accounts. You must choose a host name that is unique across all applications from all IBM Cloud users. You cannot create an IBM Cloud application with the same host name that is used by another application. Your app's name is different than its host name and must be unique only within your organization. You can have the same app name as another user if the host name is unique. By default, IBM Cloud sets your host name and your app name to be the same. The app name is for your reference to use only in scripts, CLI, and to find your app within the IBM Cloud UI. The application's host name becomes part of the application's route, which is how users access your application over the internet.

IBM Cloud: Application Details page

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memory for all runtime applications.

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Check and control the status of applications in the Application Details page in the Overview section:

- View and adjust the memory resources that are used by the application.

- Start, stop, and restart your application.

- View your application in the browser.

- Adjust the number of instances of your application.

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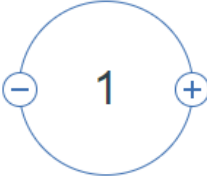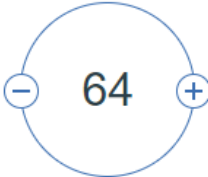
test app node 🟢 This app is awake. Visit App URL

Routes ▾   English ⌄

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Runtime

.js

BUILDPACK

SDK for Node.js™

⊖ 1 ⊕

INSTANCES

All instances are running
Health is 100%

⊖ 64 ⊕

MB MEMORY PER INSTANCE

64

TOTAL MB ALLOCATION

192 MB still available

Testing applications through the application route

- The *application route* is the entry point for users into your application in IBM Cloud:

- You can host a REST service, web app, or web page through this route.

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- The application route must be unique across all applications in the domain.
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Click to open the app URL in the browser

Adding an IBM Cloud service

You can add an IBM Cloud service to your application by clicking **Create resource** from the application dashboard and then selecting a service from the IBM Cloud catalog. You must then enter a name for the service and select a pricing plan for your service. Plans allow you to choose different "sizes" for the service, such as how much power you put behind it. For example, with some services you can choose whether you share hardware or use dedicated hardware.

You can bind the service to your application from this page, or leave the service unbound. If you leave the service unbound, IBM Cloud creates and provides credentials for accessing the service, which you can access from within the service dashboard. If you bind the service to an application, the credentials are in the application's environment variables.

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Lite • IBM

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Service name:

IBM Cloudant is a fully managed
JSON document database that
offers independent serverless
scaling of provisioned throughput
capacity and storage. Cloudant is
compatible with Apache CouchDB
and accessible through a simple to
use HTTPS API for web, mobile,
serverless, and IoT applications.
Cloudant is SOC2 and ISO 27001
compliant with HIPAA readiness
optional for Dedicated Hardware
environments. Cloudant Standard
plan instances come with a
99.95% SLA. All data is encrypted
at rest and over the wire. Cloudant
JSON documents are stored in
triplicate across three separate
availability zones for in-region
HA/DR in regions that support
AZ's. Any Cloudant instance
deployed from the Frankfurt
region/location will be in an EU-
managed environment. See

Cloudant-b9

Choose a region/location to deploy in:

London   ▼

Select a resource group: ⓘ

Default

Tags: ⓘ

Examples: env:dev, version-1

Available authentication methods:

Legacy credentials enable login to Cloudant
using HTTP Basic authentication

Use both legacy credentials and   ▼
IAM

FEEDBACK

Pricing Plans   Monthly prices shown are for country or region: United States
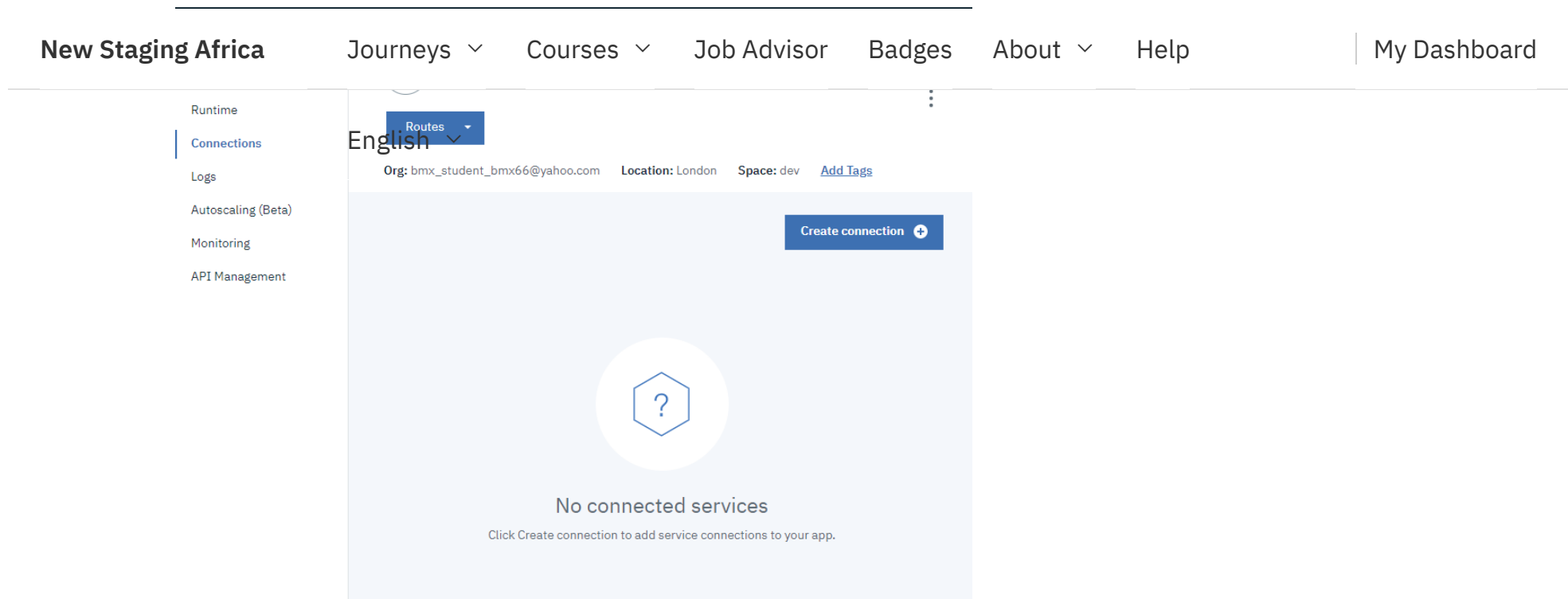
Need Help?
Contact IBM Cloud Support ↗

Add to estimate   Create

Binding a service to an application

You can bind the service to your application, by browsing to your Application Details page and select the **Connections** tab on the left navigation bar. Then, click **Create connection**.

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Runtime

Connections

Logs

Autoscaling (Beta)

Monitoring

API Management

[Routes ⌄]

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[Create connection ⊕]

?

No connected services

Click Create connection to add service connections to your app.

When you select the service to bind to your application, you click **Connect**:

- IBM Cloud lists the services that are compatible with your application and runtime environment only.

- You can bind a service to more than one application.

While you are connecting the application with the service, it prompts you to restage your application. Restaging the application makes the service available to be used within the application that uses its service credentials, which are also known as **VCAP_SERVICES**.

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All Resources ⌄

10 ⌄ Items per page	1-4 of 4 items		1 of 1 pages ‹ **1** ›
SERVICES	**RESOURCE GROUP**	**PLAN**	**SERVICE OFFERING**
Cloudant-b9	Default	Lite	Cloudant
Internet of Things Platform-sx	--	Lite	Internet of Things Platform
Natural Language Understanding-ld	Default	Lite	Natural Language Understanding
Personality Insights-7t	Default	Lite	Personality Insights

🔍 Search compatible services   ✕

IBM Cloud: Environment variables

Environment variables contain the environment information of a deployed application on IBM Cloud. IBM Cloud automatically populates the environment variable **VCAP_SERVICES** with the services that you bind to your IBM Cloud application.

Use the user-defined environment variables for configuration settings instead of hardcoding the values in your application. For example, you can save the web service endpoint, user name, and password for a cloud-based database as a user-defined environment variable.

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Resource list /

.js **test-app-node** ◑ This app is awake.   **Visit App URL**   ⋮

Getting started

Overview

Runtime

Connections

Logs

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API Management

Routes ⌄

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Memory and instances	Environment variables	SSH

VCAP_SERVICES

```
{
    "cloudantNoSQLDB": [
        {
            "label": "cloudantNoSQLDB",
            "provider": null,
            "plan": "Lite",
            "name": "Cloudant-b9",
            "tags": [
                "data_management",
                "ibm_created",
                "lite",
                "ibm_dedicated_public",
                "ibmcloud-alias"
            ],
            "instance_name": "Cloudant-b9",
            "binding_name": null,
            "credentials": {
                "apikey": "nUuZ6mYU3BbyMBB6maZ-sF7cPdqoHsYuzXc9SCLdxzYs",
                "host": "39fe2aef-946a-4b28-a481-b4f3b58cd7ba-
bluemix.cloudantnosqldb.appdomain.cloud",
                "iam_apikey_description": "Auto-generated for binding ea38e82b-cde3-46d3-86e6-
96b4cf28b1b9",
                "iam_apikey_name": "Cloudant-b9",
```

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