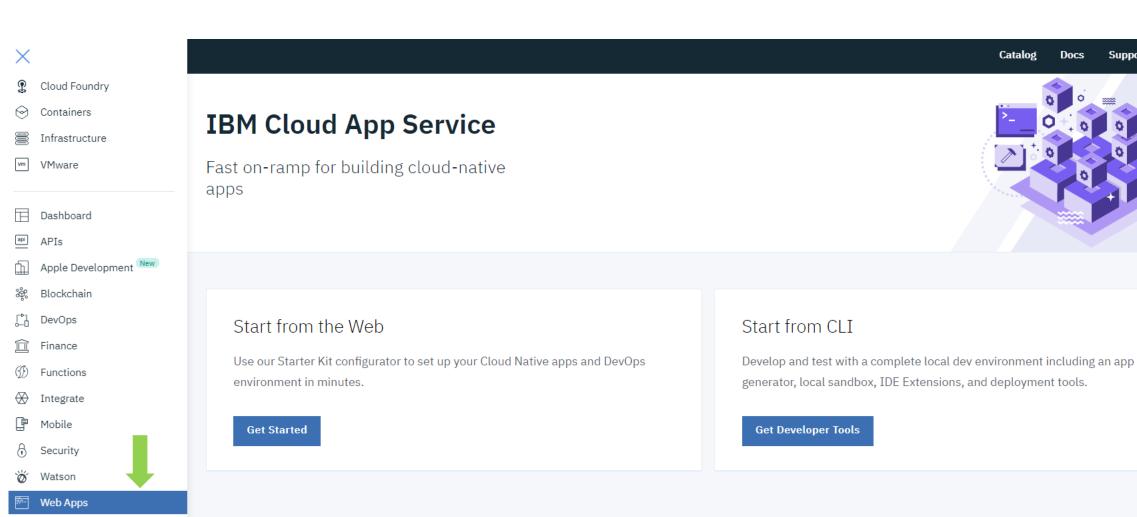# Deployment/Creation of Fibonacci Microservice.
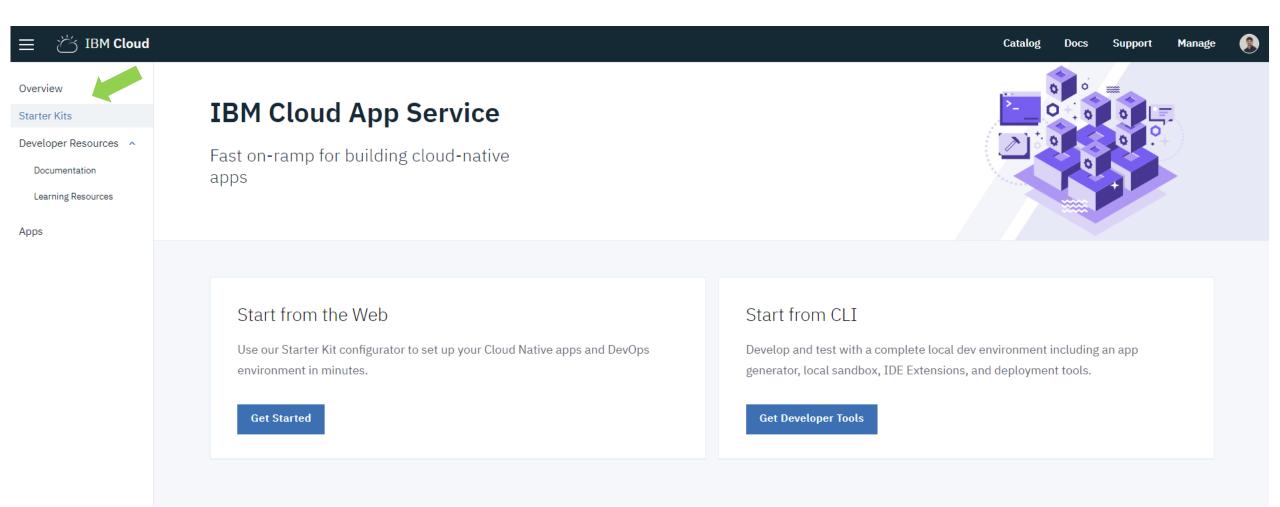
Arpit Jain

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IBM Cloud App Service

Fast on-ramp for building cloud-native apps

Start from the Web

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Get Started

Start from CLI

Develop and test with a complete local dev environment including an app generator, local sandbox, IDE Extensions, and deployment tools.

Get Developer Tools

Overview

Starter Kits

Developer Resources ^

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Catalog   Docs   Support   Manage

Overview

Starter Kits

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Apps

Create App

Start creating a custom application using services and programming runtime of your choice.

app using Mendix Lowcode.

`Mendix` `Experimental` ⌄

A starter building a microservice backend in Java, using the MicroProfile / Java EE framework.

`Microservice` ⌄

Java Spring Basic

A starter that provides a basic web serving application in Java, using the Spring framework.

`Web App` ⌄

Express.js React

A starter that provides a rich React frontend delivered from a Node.js application, including key...

`Web App` ⌄

Python Flask Basic

A starter that provides a basic web serving application using the Flask framework.

`Web App` ⌄

MongoDb + Express + React + Node

A starter project for setting up a mongodb, express, react and node application

MongoDb + Express + Angular + Node

A starter project for setting up a mongodb, express, angular and node application

Express.js Backend

A starter for building backend-for-frontend APIs in Node.js, using the Express.js framework.

Starter Kits / Create App

🚂 MongoDb + Express + React + Node ⓘ

Create

Cancel

Need Help? Contact IBM Cloud Sales

App Details

Name your app

fibonacciservice

Select region to deploy in:

US South ▾

Choose an organization:

arpit.jain@iiitdmj.ac.in ▾

Choose a space:

dev ▾

Host ⓘ

fibonacciservice

Domain ⓘ

mybluemix.net ▾

Select your language

⦿ Node.js

| Name	Date modified	Type	Size
📁 .bluemix	29-05-2018 17:10	File folder	
📁 service	29-05-2018 17:10	File folder	
📁 tester	29-05-2018 17:10	File folder	
📄 .editorconfig	29-05-2018 17:10	EDITORCONFIG File	1 KB
📄 .eslintignore	29-05-2018 17:10	ESLINTIGNORE File	1 KB
📄 .eslintrc	29-05-2018 17:10	ESLINTRC File	1 KB
📄 .gitignore	29-05-2018 17:10	Text Document	1 KB
📄 License.txt	29-05-2018 17:10	Text Document	1 KB
📄 Notice.txt	29-05-2018 17:10	Text Document	1 KB
📄 package.json	29-05-2018 17:10	JSON File	1 KB
📄 README.md	29-05-2018 17:10	MD File	7 KB
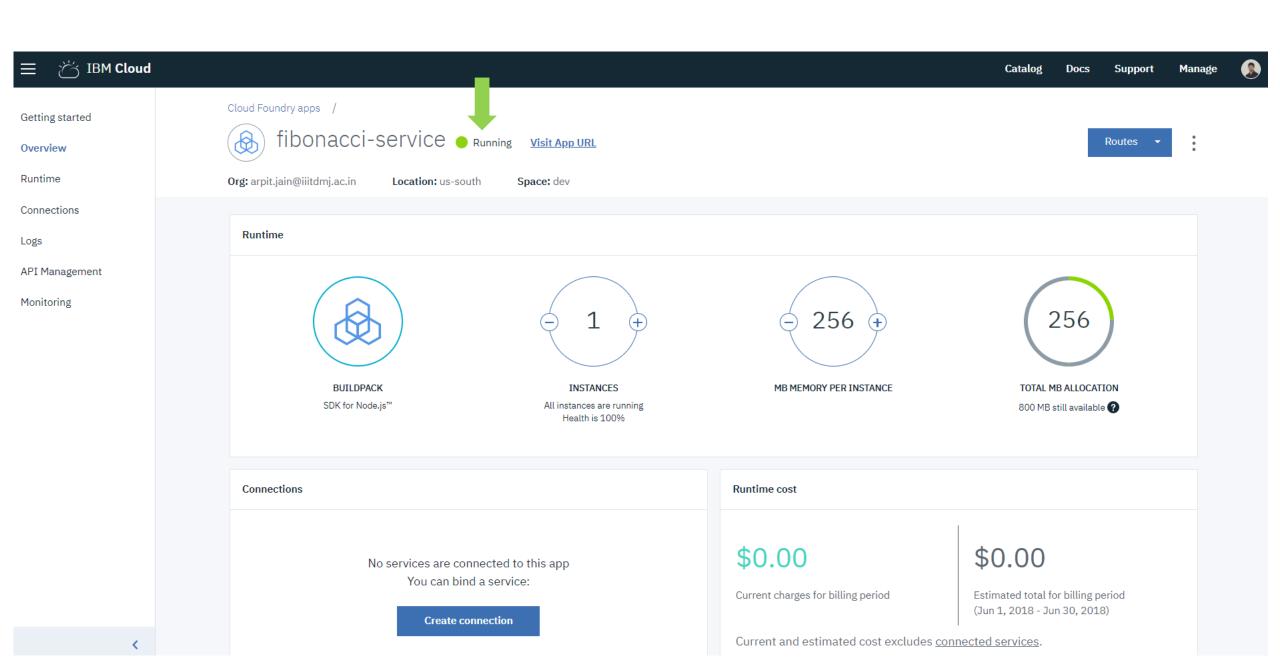
```
PS C:\Users\ArpitJainMr\Downloads\multiple-deployment-options-master\service> bx target -o arpit.jain@iiitdmj.ac.in -s dev
Targeted org arpit.jain@iiitdmj.ac.in

Targeted space dev


API endpoint:     https://api.ng.bluemix.net (API version: 2.92.0)
Region:           us-south
User:             arpit.jain@iiitdmj.ac.in
Account:          Student (7f8a9d7bb9a78db4561504ae9485140d)
Resource group:   Default
Org:              arpit.jain@iiitdmj.ac.in
Space:            dev
PS C:\Users\ArpitJainMr\Downloads\multiple-deployment-options-master\service> bx cf push
Invoking 'cf push'...

Pushing from manifest to org arpit.jain@iiitdmj.ac.in / space dev as arpit.jain@iiitdmj.ac.in...
Using manifest file C:\Users\ArpitJainMr\Downloads\multiple-deployment-options-master\service\manifest.yml
Getting app info...
Creating app with these attributes...
+ name:        fibonacci-service
  path:        C:\Users\ArpitJainMr\Downloads\multiple-deployment-options-master\service
+ memory:      256M
  routes:
+   fibonacci-service-talkative-emu.mybluemix.net

Creating app fibonacci-service...
Mapping routes...
Comparing local files to remote cache...
Packaging files to upload...
Uploading files...
 3.79 KiB / 3.79 KiB [=================================================================================] 100.00% 1s

Waiting for API to complete processing files...

Staging app and tracing logs...
   Downloading liberty-for-java_v3_20-20180413-1252...
   Downloading ruby_buildpack...
   Downloading python_buildpack...
   Downloading go_buildpack...
   Downloading nodejs_buildpack...
   Downloaded go_buildpack
   Downloading xpages_buildpack...
   Downloaded nodejs_buildpack
   Downloading php_buildpack...
   Downloaded ruby_buildpack
   Downloading staticfile_buildpack...
   Downloaded python_buildpack
   Downloading binary_buildpack...
   Downloaded liberty-for-java_v3_20-20180413-1252
   Downloading liberty-for-java_v3_17_1-20180131-1532...
   Downloaded xpages_buildpack
   Downloading liberty v3 14-20171013-1023...
```
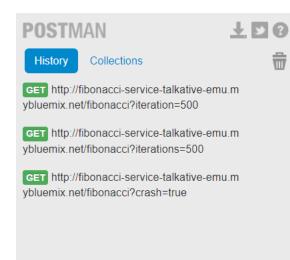
```
-----> Installing App Management
Checking for Dynatrace credentials
No Dynatrace Service Found (service with substring dynatrace not found in VCAP_SERVICES)
-----> Caching build
        Clearing previous node cache
        Saving 2 cacheDirectories (default):
        - node_modules
        - bower_components (nothing to cache)
-----> Build succeeded!
        ├── bluemix-autoscaling-agent@1.0.13
        ├── bn.js@4.11.6
        ├── cors@2.8.3
        ├── express@4.15.2
        └── winston@2.3.1

Exit status 0
Staging complete
Uploading droplet, build artifacts cache...
Uploading build artifacts cache...
Uploading droplet...
Uploaded build artifacts cache (20.3M)
Uploaded droplet (39.4M)
Uploading complete
Stopping instance 0b7f9d34-5751-47d6-8a08-ffae3151f7a7
Destroying container
Successfully destroyed container

Waiting for app to start...

name:             fibonacci-service
requested state:  started
instances:        1/1
usage:            256M x 1 instances
routes:           fibonacci-service-talkative-emu.mybluemix.net
last uploaded:    Tue 29 May 17:18:18 IST 2018
stack:            cflinuxfs2
buildpack:        SDK for Node.js(TM) (ibm-node.js-6.13.0, buildpack-v3.20.1-20180509-1706)
start command:    ./vendor/initial_startup.rb

     state    since                  cpu    memory          disk          details
#0   running  2018-05-29T11:49:15Z   0.0%   52.9M of 256M   102.9M of 1G

PS C:\Users\ArpitJainMr\Downloads\multiple-deployment-options-master\service>
```

Cloud Foundry

REGION	CLOUD FOUNDRY ORG	CLOUD FOUNDRY SPACE
All Regions ⌄	All Organizations ⌄	All Spaces ⌄

Filter by resource name...

Create resource

Overview

Public

Enterprise ▲

Quick Start

Environments

Cloud Foundry Applications

Name	Region	CF Org	CF Space	Memory (MB)	Status	
Florence_Chatbot	United Kingdom	arpit.jain@iiitdmj.ac.	dev	256	● Running	⋮
Microservices-861648	US South	arpit.jain@iiitdmj.ac.	US South	512	● Running	⋮
MultimediaAnalyser	United Kingdom	arpit.jain@iiitdmj.ac.	dev	256	● Running	⋮
catalog-api-microservices-toolchain-2018052816550556	US South	arpit.jain@iiitdmj.ac.	prod	128	● Running	⋮
fibonacci-service	US South	arpit.jain@iiitdmj.ac.	dev	256	● Running	⋮
node-helloworld-20180529064638573	US South	arpit.jain@iiitdmj.ac.	dev	128	● Running	⋮

FEEDBACK

Getting started

Overview

Runtime

Connections

Logs

API Management

Monitoring

Cloud Foundry apps /

fibonacci-service ● Running   **Visit App URL**

Routes ▾

Org: arpit.jain@iiitdmj.ac.in   **Location:** us-south   **Space:** dev

Runtime

BUILDPACK

SDK for Node.js™

1

INSTANCES

All instances are running
Health is 100%

256

MB MEMORY PER INSTANCE

256

TOTAL MB ALLOCATION

800 MB still available ❓

Connections

No services are connected to this app
You can bind a service:

Create connection

Runtime cost

$0.00

Current charges for billing period

$0.00

Estimated total for billing period
(Jun 1, 2018 - Jun 30, 2018)

Current and estimated cost excludes connected services.

History　Collections

GET http://fibonacci-service-talkative-emu.mybluemix.net/fibonacci?iteration=500

GET http://fibonacci-service-talkative-emu.mybluemix.net/fibonacci?iterations=500

GET http://fibonacci-service-talkative-emu.mybluemix.net/fibonacci?crash=true

Normal　Basic Auth　Digest Auth　OAuth 1.0　No environment

0

http://fibonacci-service-talkative-emu.mybluemix.net/fibonacci?iteration=500

GET ▾　URL params　Headers (0)

Send　Preview　Add to collection　Reset

Body　Headers (11)　STATUS 200　TIME 843 ms

Pretty　Raw　Preview　JSON　XML

```
1  {
2      "number": "139423224561697880139724382870407283950070256587697307264108962948325571622863290691557658876222521294125",
3      "length": 105,
4      "iterations": "500",
5      "ms": 15
6  }
```

History　Collections

GET http://fibonacci-service-talkative-emu.mybluemix.net/fibonacci?duration=200

GET http://fibonacci-service-talkative-emu.mybluemix.net/fibonacci?iteration=500

GET http://fibonacci-service-talkative-emu.mybluemix.net/fibonacci?iterations=500

GET http://fibonacci-service-talkative-emu.mybluemix.net/fibonacci?crash=true

Normal　Basic Auth　Digest Auth　OAuth 1.0　No environment

0

http://fibonacci-service-talkative-emu.mybluemix.net/fibonacci?duration=200

GET ▾　URL params　Headers (0)

Send　Preview　Add to collection　Reset

Body　Headers (11)　STATUS 200　TIME 742 ms

Pretty　Raw　Preview　JSON　XML

```
1  {
2      "number":
   "56418615671886188109208222427683091867621025061414721095882894738034248240909614091518661390461953506022495570650853406440724651824928205127987133136919148324068442984935706350749427015199285340837679669079297021550320280977371736459931818949119917136697699438328605755299357512297884835388799401330670078594493396493265610610195365930724733044895309690876733327264616227751308478245834258459601467923824086166999750182155990918854704766478188086355584790629",
3      "length": 458,
4      "iterations": "2192",
5      "ms": 200
6  }
```