IBM Watson

IBM Cloud Overview

23.07.2019

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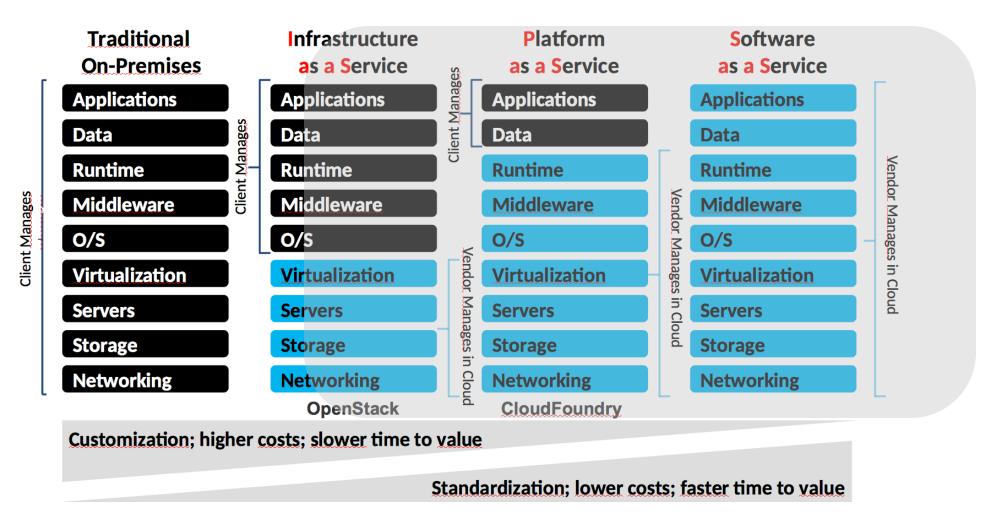
Cloud Computing

- An estimated 85% of new software is being built for cloud deployment
- Cloud Computing is a broad term that describes a range of services
- Infrastructure as a Service (laaS)
 - Hardware / software servers, storage, networks, operating systems
- Platform as a Service (PaaS)
 - Set of tools and services designed for application development
- Software as a Service (SaaS)
 - •Designed for end users, delivered over the web





IBM Cloud





Platform as a Service

 A computing platform that allows the creation of web applications quickly and easily without the complexity of buying and maintaining the underlying infrastructure and middleware

- Characteristics
 - Services to develop, test, deploy, host and maintain applications
 - Web based user interface creation tools
 - Multi-tenant architecture
 - Built in scalability
 - And more!





Pricing

- Build apps and try IBM services FREE for 30 days
- Pay-As-You-Go, or discounted subscriptions
- Price and configure your own scenario <u>here</u>



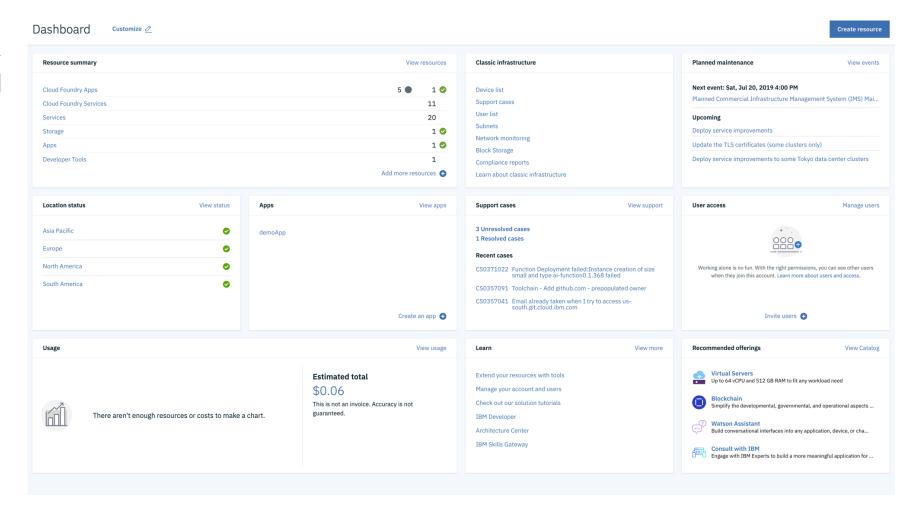
- Charges vary depending on resources used
 - Compute resources are charged by GB-hours
 - GB-hour (num instances) (memory per instance) (running hours)
 - Charges for services
 - Many have free monthly allowances and/or tiered charges





Cloud Dashboard

- Allows you to create, view and manage your apps and services
- Manage organizations and spaces
 - Organization: grouping methodology for IBM Cloud users
 - Space: a sub-group where you can assign permissions





IBM Cloud Catalog — https://cloud.ibm.com/catalog

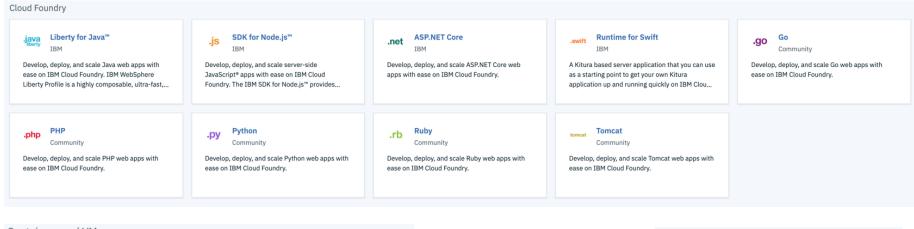
190+ Services available

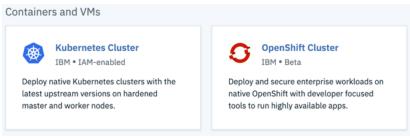




Cloud Foundry/Containers/VMware

- Provides a set of resources used to run the application
- Cloud Foundry allows you to get your application up and running with no need to set up and manage hardware, operating systems, or servers









Services

- Cloud extension that provides ready-for-use functionality
- Can add single or multiple services to any application



Speech to Text

Lite • IBM • IAM-enabled

Low-latency, streaming transcription



Cloudant

Lite • IBM • IAM-enabled

A scalable JSON document database for web mobile, IoT, and serverless applications.



Watson Assistant

Lite • IBM • IAM-enabled

Watson Assistant lets you build conversational interfaces into any application, device, or channe

Lite • IBM • IAM-enabled

A next generation SQL database. Formerly



Functions

IBM . IAM-enabled

IBM Cloud Functions is a Function-as-a-Service (FaaS) platform which executes functions in response to incoming events.



API Connect

Lite . IBM

Create, manage, enforce, and run APIs.



Object Storage

Lite • IBM • IAM-enabled

Provides flexible, cost-effective, and scalable cloud storage for unstructured data.



Analytics Engine

Db2

dashDB For Transactions.

Lite • IBM • IAM-enabled

Flexible framework to deploy Hadoop and Spark analytics applications.



Continuous Delivery

Lite • IBM • IAM-enabled

Develop, build, test and deliver using DevOps best practices.



Secure Gateway

IBM

IBM Secure Gateway for IBM Cloud enables users to integrate cloud services with enterprise systems on premises.



Toolchain

Lite • IBM • IAM-enabled

Build, test and deliver using DevOps best practices.



Internet of Things Platform

Lite . IBM

This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can acce...





Starter Kits

- Boilerplates are used to get up and running quickly by generating application templates
 - A sample application
 - The associated runtime environment
 - Any predefined services to accomplish a specific task



Basic Web for Mendix

A starter that provides a basic web serving application using Mendix.



Custom Vision Model for Core ML with Watson

TRM

Create Apple Core ML Models using the Watson Visual Recognition service to process and tag images locally.



Internet of Things Platform Starter

Lite • IBM

Get started with IBM Watson IoT platform using the Node-RED Node.js sample application. With the Starter, you can quickly simulate an Intern...



Java MicroProfile / Java EE Basic

IBM

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



Java Microservice with MicroProfile and Java EE

IBI

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



Java Microservice with Spring

A starter building a microservice backend in Java, using the Spring framework.



Java Web App with Spring

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



Mobile Basic

A basic Hello World starter with Analytics and Push services.



Node.js Microservice with Express.js

IBM

A starter for building a microservice backend in Node.js, using the Express.js framework.



Node.js Web App with Express.is

IBM

A starter that provides a basic web serving application in Node.js, using the Express.js



Python Microservice with Flask

IBM

A starter for building a microservice backend, using the Flask framework.



Python Web App with Django

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



Python Web App with Flask

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



Watson Assistant Basic

TRM

Simple application that demonstrates the Watson Assistant service in a chat interface simulating banking tasks.



Watson Natural Language Understanding Basic

IBM

Collection of APIs that can analyze text to help you understand its concepts, entities, keywords, sentiment, and can create a custom model for...



Watson Visual Recognition

IBM

Use deep learning algorithms to analyze images that can give you insights into your visual content.



Node-RED Starter

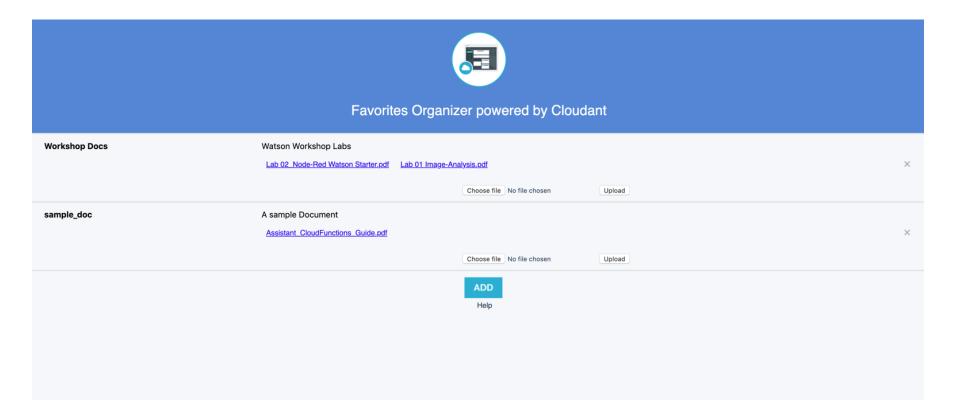
Lite • Commun

This application demonstrates how to run the Node-RED open-source project within IBM Cloud.



Demo

Node.js and Cloudant Starter Application





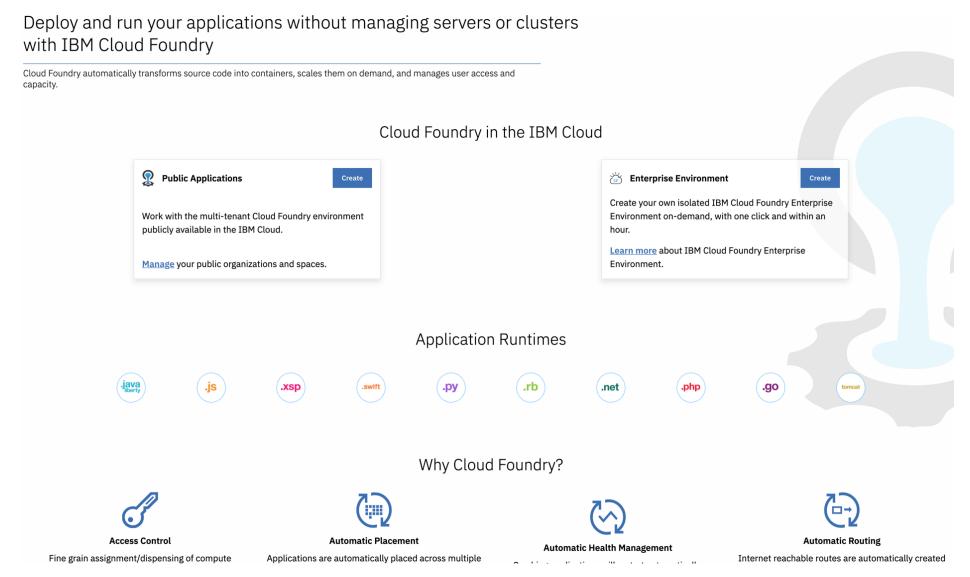
IBM Cloud Overview
Thank you!

https://cloud.ibm.com



Demo Backup 1 - Create a Cloud Foundry App





Demo Backup 2 – Name, locate, and pricing plan



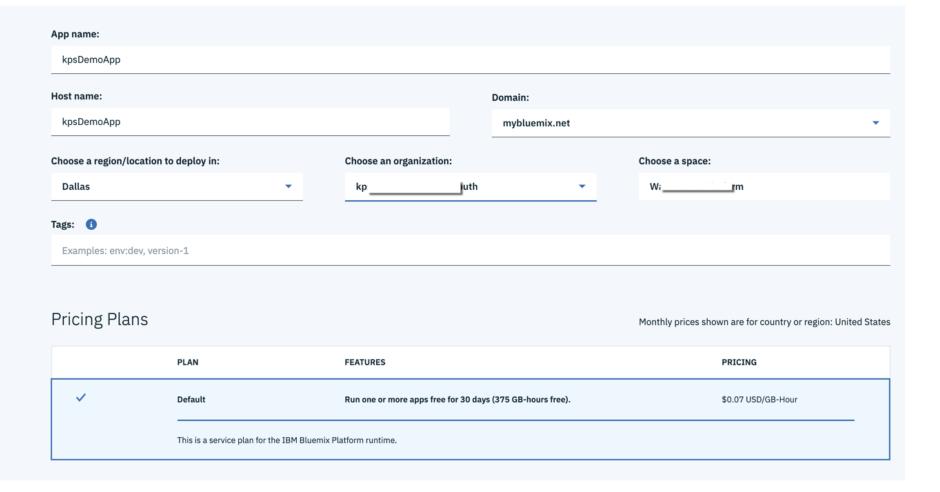
is Create a Cloud Foundry App

Lite • IBM

SDK for Node.js™

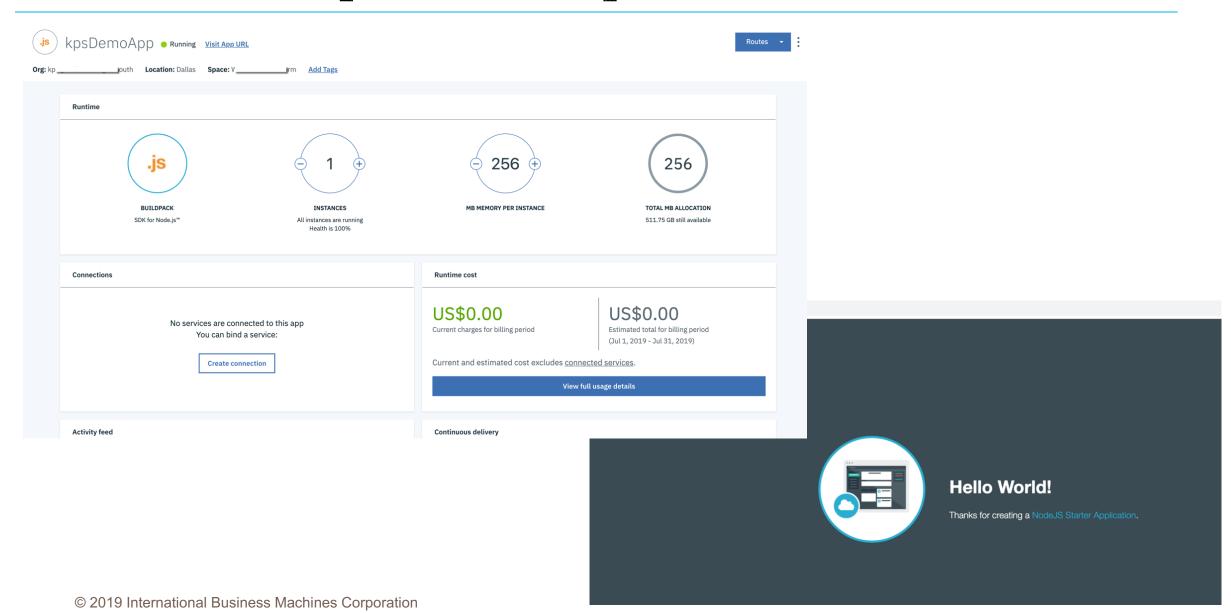
Develop, deploy, and scale server-side JavaScript® apps with ease on IBM Cloud Foundry. The IBM SDK for Node.js™ provides enhanced performance, security, and serviceability.

VERSION 3.x TYPE Application LOCATION Sydney, Frankfurt, London, Washington DC, Dallas



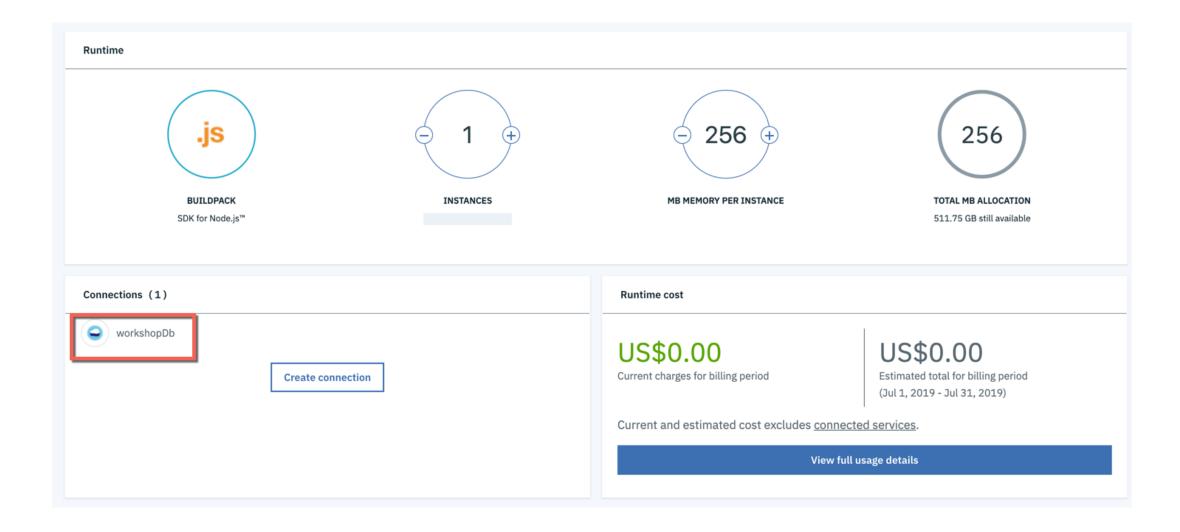
Demo Backup 3 – The sample runs after creation





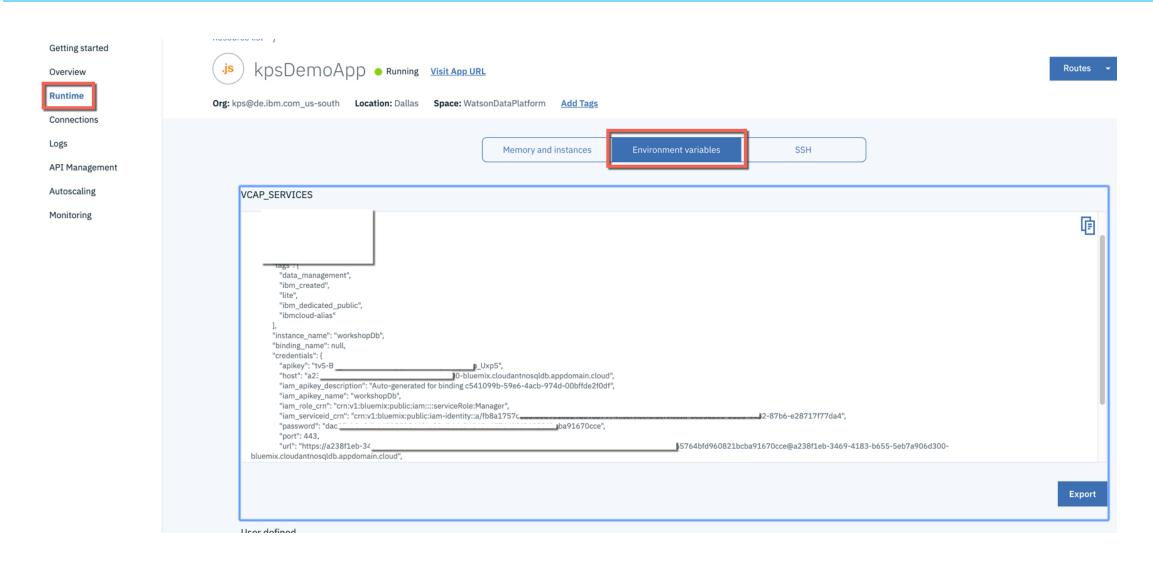
Demo Backup 4 – Add a Cloudant Db to the app





Demo Backup 5 - Cloud Fundry Environment



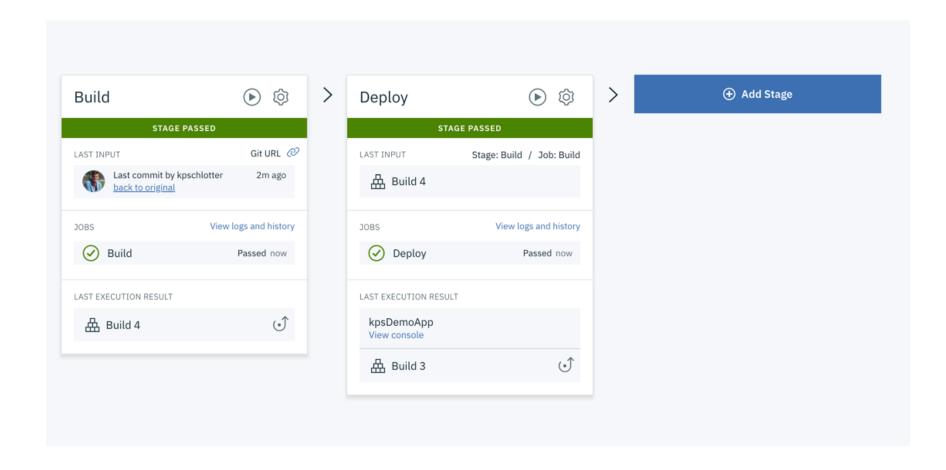


Demo Backup 6 – Add a Delivery Pipeline



Toolchains / kpsDemoApp / kpsDemoApp

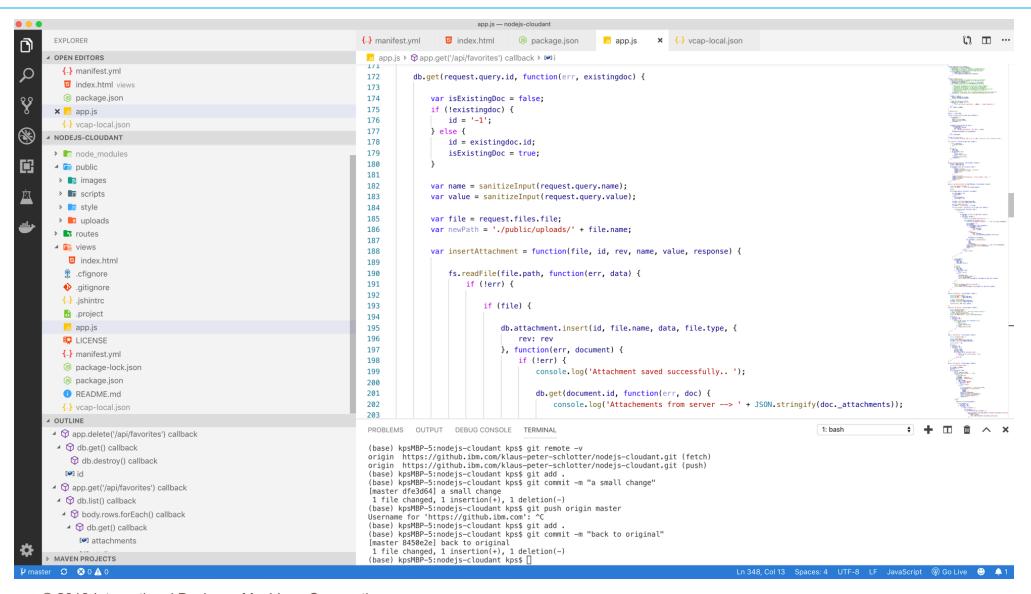
kpsDemoApp | Delivery Pipeline



IBM

Demo Backup 7 – Develop your Code and Commit





IBM

Demo Backup 8 – App is uploaded and deployed.



Favorites Organizer powered by Cloudant		
Workshop Docs	Watson Workshop Labs	
	Lab 02 Node-Red Watson Starter.pdf Lab 01 Image-Analysis.pdf	×
	Choose file No file chosen Upload	
sample_doc	A sample Document	
	Assistant CloudFunctions Guide.pdf	×
	Choose file No file chosen Upload	
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BM Demo Backup 9 - Cloudant data created by app



