

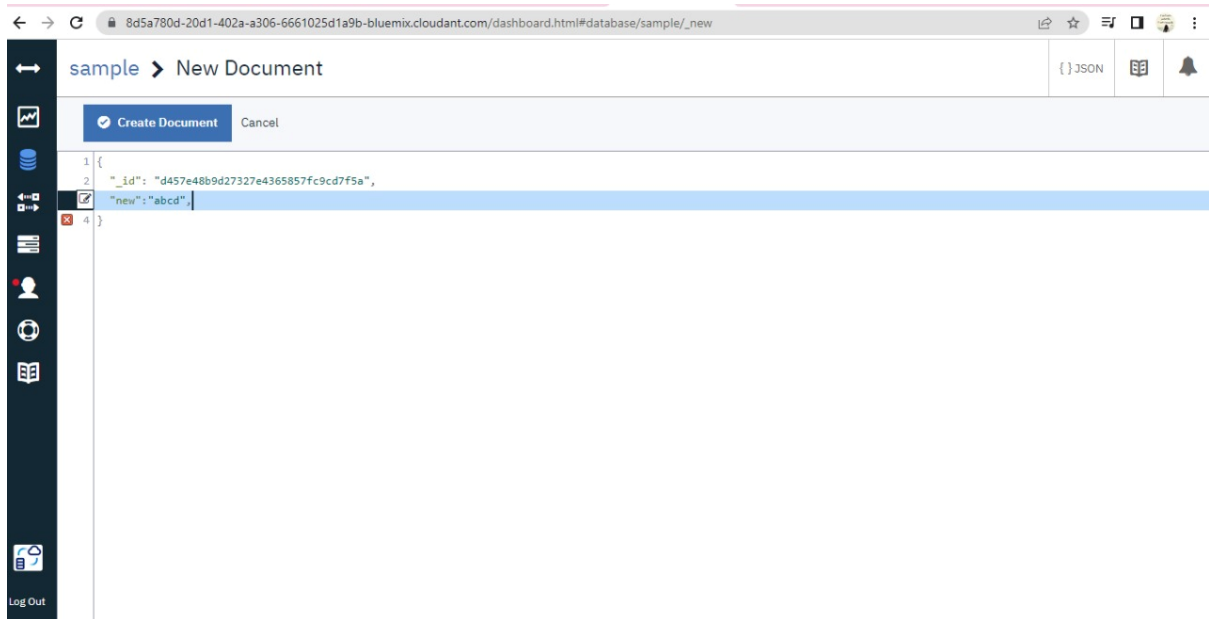
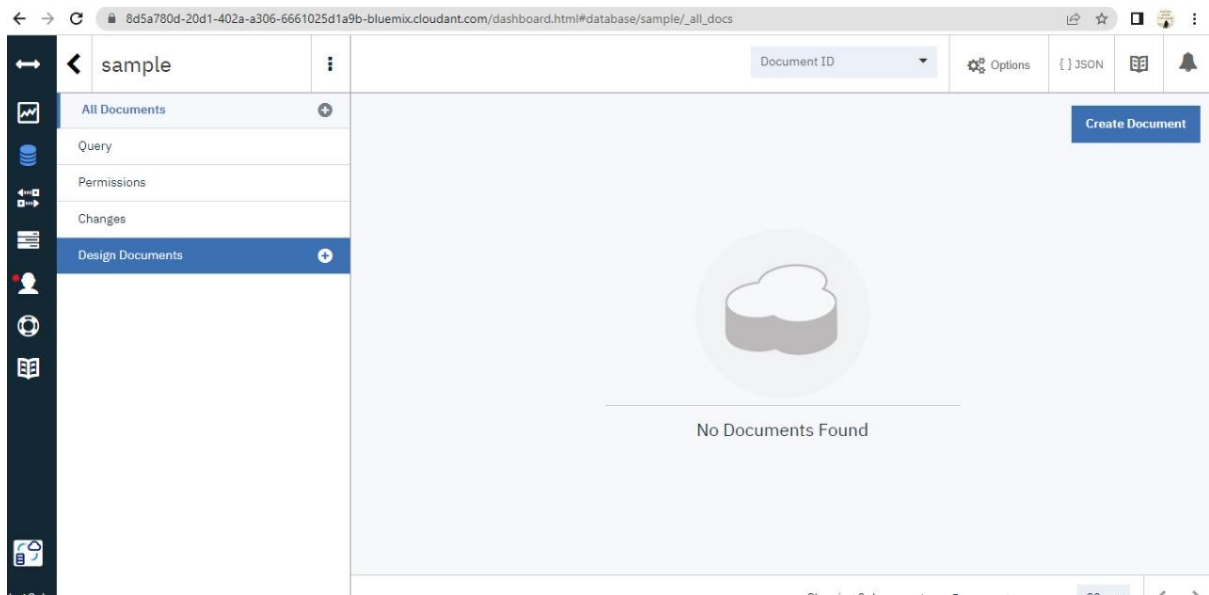
Date	11 November 2022
Team ID	PNT2022TMID47501
Project Name	PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF-RELIANT
Maximum Marks	20 Marks

US-1: Launch the cloudant DB and create a database to store the medicine details

The screenshot shows the IBM Cloud console interface. At the top, the browser address bar displays the URL: `cloud.ibm.com/services/cloudantnosqldb/crn%3Av1%3Abluemix%3Apublic%3Acloudantnosqldb%3Aeu-gb%3Aa%2Faaec39bbda4c7b95271eb8cf1789cf%3A44...`. The console header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and the user profile (Sabari Muktheeswaran). The main content area is titled "Cloudant-wr" with a status of "Active" and an "Add tags" link. On the left, a "Manage" sidebar lists "Service credentials", "Plan", and "Connections". The "Overview" tab is selected, showing "Deployment details". A "Launch Dashboard" button is in the top right. The deployment details include:

- CRN:** `crn:v1:bluemix:public:cloudantnosqldb:eu-gb:a/aaec39bbda4c7b95271eb8cf1789cf:44377fa1-1783-4185-a6ad-6d050ce90e2d::`
- Location:** London
- External endpoint:** <https://8d5a780d-20d1-402a-a306-6661025d1a9b-bluemix.cloudant.com>
- External endpoint (preferred):** <https://8d5a780d-20d1-402a-a306-6661025d1a9b-bluemix.cloudantnosqldb.appdomain.cloud>
- Authentication methods:** IBM Cloud IAM
- Activity Tracker event types:** Management (dropdown menu) and a Save button.

The screenshot shows the Cloudant dashboard in a web browser. The address bar displays: `8d5a780d-20d1-402a-a306-6661025d1a9b-bluemix.cloudant.com/dashboard.html`. The page title is "Databases". On the left is a sidebar with various icons and a "Log Out" link at the bottom. The main area shows "Your Databases" with a table that has columns: Name, Size, # of Docs, and Partitioned. The table is currently empty. A "Create Database" modal is open on the right. It includes a "Database name" input field with the placeholder "database-name". Under "Partitioning", the "Non-partitioned - recommended for most workloads" option is selected with a radio button. Below this is a link "Which should I choose?". At the bottom of the modal are "Cancel" and "Create" buttons. The status "Showing 1-0 of 0 databa" is visible at the bottom of the table area.



← → ↻

8d5a780d-20d1-402a-a306-6661025d1a9b-bluemix.cloudant.com/dashboard.html#database/sample/_all_docs

🔖 ☆ ☰ 🖨 👤 ⋮

sample

Document ID

Options

{ } JSON

📖 🔔

All Documents

Query

Permissions

Changes

Design Documents

Log Out

Table Metadata { } JSON

Create Document

id	key	value
d457e48b9d27327e4365857fc9cd7f...	d457e48b9d27327e4365857fc9cd7f...	{ "rev": "1-4dbd80ab6e655d7ba1af92..." }

Showing document 1 - 1. Documents per page: 20

← → ↻

8d5a780d-20d1-402a-a306-6661025d1a9b-bluemix.cloudant.com/dashboard.html#/_all_dbs

🔖 ☆ ☰ 🖨 👤 ⋮

Databases

Database name

Create Database

{ } JSON

📖 🔔

Your Databases

Name	Size	# of Docs	Partitioned	Actions
sample	14 bytes	1	No	🔗 🔒 🗑

Showing 1-1 of 1 databases. Databases per page: 20

US-2: Create a text to speech service to generate the voice command by using python script

The screenshot shows the IBM Cloud Catalog interface. On the left, there are filters for 'EU Supported', 'HIPAA Enabled', 'IAM-enabled', and 'Service Endpoint Supported'. Below these are location filters for Dallas, Frankfurt, London, Seoul, Sydney, and Tokyo. The main area displays a grid of services. The 'Text to Speech' service by IBM is highlighted with a blue border. It is described as 'Synthesizes natural-sounding speech from text.' and lists features: 'Lite • Free • EU Supported • HIPAA Enabled • IAM-enabled • IBM supported'.

The screenshot shows the 'Text to Speech' service details page in the IBM Cloud Catalog. The 'Create' tab is active, showing a form to select a location and a pricing plan. The 'Summary' panel on the right shows the service details.

Text to Speech
Synthesizes natural-sounding speech from text.

Create | About

Select a location
Sydney (au-syd)

Select a pricing plan
Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	10,000 Characters per Month The Lite plan gets you started with 10,000 characters per month at no cost. When you upgrade to a paid plan, you will get access to Customization capabilities. Lite plan services are deleted after 30 days of inactivity.	Free
Standard	Standard Characters	\$0.02 USD/THOUSAND CHAR

Summary

Text to Speech **Free**

Location: Sydney
Plan: Lite
Service name: Text to Speech-vs
Resource group: Default

☒ I have read and agree to the following license agreements:
[Terms](#)

[Create](#)

[Add to estimate](#)

IBM Cloud

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VAISHNAVI R's Account

Resource list /

Text to Speech-v2

Active

Add tags

Details

Actions...

Manage

Getting started

Service credentials

Plan

Connections

Start by viewing the tutorial

Getting started tutorial

API reference

Plan

Lite

Upgrade

Credentials

Download

Show credentials

API key:

.....

URL:

https://api.au-syd.text-to-speech.watson.cloud.ibm.com/instances/...

cloud.ibm.com/apidocs/text-to-speech?code=python#service-endpoint

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Text to Speech

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Endpoint URLs

Identify the base URL for your service instance.

IBM Cloud URLs

The following URLs represent the base URLs for Text to Speech. When you call the API, use the URL that corresponds to the location of your service instance.

- Dallas: <https://api.us-south.text-to-speech.watson.cloud.ibm.com>
- Washington DC: <https://api.us-east.text-to-speech.watson.cloud.ibm.com>
- Frankfurt: <https://api.eu-de.text-to-speech.watson.cloud.ibm.com>
- Sydney: <https://api.au-syd.text-to-speech.watson.cloud.ibm.com>
- Tokyo: <https://api.jp-tok.text-to-speech.watson.cloud.ibm.com>
- London: <https://api.eu-gb.text-to-speech.watson.cloud.ibm.com>
- Seoul: <https://api.kr-seo.text-to-speech.watson.cloud.ibm.com>

Set the correct service URL by calling the `set_service_url()` method of the service instance.

Cloud Pak for Data URLs

For services installed on Cloud Pak for Data, the base URLs come from both the cluster and service instance.

You can find the base URL from the Cloud Pak for Data web client in the details page about the instance. Click the name of the service in your list of instances to see the URL.

Curl

Java

Node

Python

.NET

Default URL

<https://api.us-south.text-to-speech.watson.cloud.ibm.com>

Example for the Washington DC location

```
from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator

authenticator = IAMAuthenticator('apikey')
text_to_speech = TextToSpeechV1(
    authenticator=authenticator
)

text_to_speech.set_service_url('https://api.us-east.text-to-speech.watson.cloud.ibm.com')
```

Endpoint example for Cloud Pak for Data

```
from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import
```

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IBM Cloud API Docs / Text to Speech

Introduction

Last updated: 2022-11-04

The IBM Watson™ Text to Speech service provides APIs that use IBM's speech-synthesis capabilities to synthesize text into natural-sounding speech in a variety of languages, dialects, and voices. The service supports at least one male or female voice, sometimes both, for each language. The audio is streamed back to the client with minimal delay.

For speech synthesis, the service supports a synchronous HTTP Representational State Transfer (REST) interface and a WebSocket interface. Both interfaces support plain text and SSML input. SSML is an XML-based markup language that provides text annotation for speech-synthesis applications. The WebSocket interface also supports the SSML `<mark>` element and word timings.

The service offers a customization interface that you can use to define sounds-like or phonetic translations for words. A sounds-like translation consists of one or more words that, when combined, sound like the word. A phonetic translation is based on the SSML phoneme format for representing a word. You can specify a phonetic translation in standard International Phonetic Alphabet (IPA) representation or in the proprietary IBM Symbolic Phonetic Representation (SPR). For phonetic translation, the Arabic, Chinese, Dutch, Australian English, Korean, and Swedish voices support only IPA, not SPR.

The service also offers a Tune by Example feature that lets you define custom prompts. You can also define speaker models to improve the quality of your custom prompts. The service support custom prompts only for US English custom models and voices.

Deprecated: Effective 31 March 2022, all *neural* voices are deprecated. The deprecated voices remain available to existing users until 31 March 2023, when

Curl

Java

Node

Python

.NET

The code examples on this tab use the client library that is provided for Python.

Installation

```
pip install --upgrade "ibm-watson">=6.1.0
```

GitHub

<https://github.com/watson-developer-cloud/python-sdk>

```
medivine.py - C:/Users/au1s/OneDrive/Desktop/medivine.py (3.7.0)
File Edit Format Run Options Window Help
from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator

authenticator = IAMAuthenticator('41x0-G0CCF-DCKV8-igWTIxh4M-d_51hDc9tPupU0K9H')
text_to_speech = TextToSpeechV1(
    authenticator=authenticator
)

text_to_speech.set_service_url('https://api.eu-pyd.text-to-speech.watson.cloud.ibm.com/instances/db50c03f-c473-47ff-bbfb-3bd30f5edca9')

with open('name.wav', 'wb') as audio_file:
    audio_file.write(
        text_to_speech.synthesize(
            'medicine name',
            voice='en-US_AllisonV3Voice',
            accept='audio/wav'
        ).get_result().content
    )
```

```
Command Prompt
Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aruls>pip install --upgrade "ibm-watson>=6.1.0"
Requirement already up-to-date: ibm-watson>=6.1.0 in c:\users\aruls\appdata\local\programs\python\python37\lib\site-packages (6.1.0)
Requirement not upgraded as not directly required: requests<3.0,>=2.0 in c:\users\aruls\appdata\local\programs\python\python37\lib\site-packages (from ibm-watson>=6.1.0) (2.28.1)
Requirement not upgraded as not directly required: python-dateutil<=2.5.3 in c:\users\aruls\appdata\local\programs\python\python37\lib\site-packages (from ibm-watson>=6.1.0) (2.8.2)
Requirement not upgraded as not directly required: websocket-client<=1.1.0 in c:\users\aruls\appdata\local\programs\python\python37\lib\site-packages (from ibm-watson>=6.1.0) (1.1.0)
Requirement not upgraded as not directly required: ibm_cloud_sdk_core<=3.*,>=3.3.6 in c:\users\aruls\appdata\local\programs\python\python37\lib\site-packages (from ibm-watson>=6.1.0) (3.16.0)
Requirement not upgraded as not directly required: certifi<=2017.4.17 in c:\users\aruls\appdata\local\programs\python\python37\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (2022.9.24)
Requirement not upgraded as not directly required: urllib3<1.27,>=1.21.1 in c:\users\aruls\appdata\local\programs\python\python37\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (1.26.12)
Requirement not upgraded as not directly required: charset-normalizer<3,>=2 in c:\users\aruls\appdata\local\programs\python\python37\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (2.1.1)
Requirement not upgraded as not directly required: idna<4,>=2.5 in c:\users\aruls\appdata\local\programs\python\python37\lib\site-packages (from requests<3.0,>=2.0->ibm-watson>=6.1.0) (3.4)
Requirement not upgraded as not directly required: six<=1.5 in c:\users\aruls\appdata\local\programs\python\python37\lib\site-packages (from python-dateutil<=2.5.3->ibm-watson>=6.1.0) (1.16.0)
Requirement not upgraded as not directly required: PyJWT<3.0.0,>=2.4.0 in c:\users\aruls\appdata\local\programs\python\python37\lib\site-packages (from ibm_cloud_sdk_core<=3.*,>=3.3.6->ibm-watson>=6.1.0) (2.6.0)

You are using pip version 18.0.1, however version 22.3.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\Users\aruls>
```

