

Date	11 November 2022
Team ID	PNT2022TMID25041
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. The top navigation bar includes the IBM Cloud logo, a search bar, and a user profile. The main content area displays the 'Cloudant-wr' resource, which is 'Active'. The 'Overview' tab is selected, showing deployment details. A 'Launch Dashboard' button is visible in the top right corner of the resource details.

Deployment details

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

The screenshot shows the Cloudant dashboard interface. The 'Databases' section is active, displaying a table with columns: Name, Size, # of Docs, and Partitioned. The table is currently empty. A 'Create Database' modal is open on the right side of the screen, allowing the user to create a new database.

Create Database

Database name:

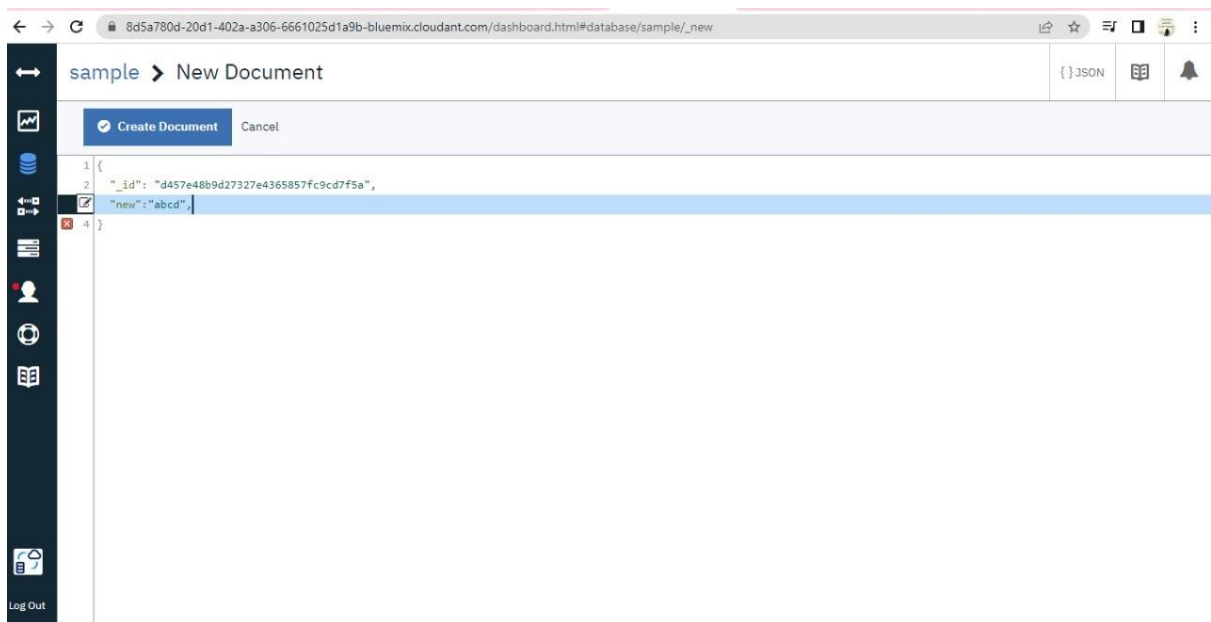
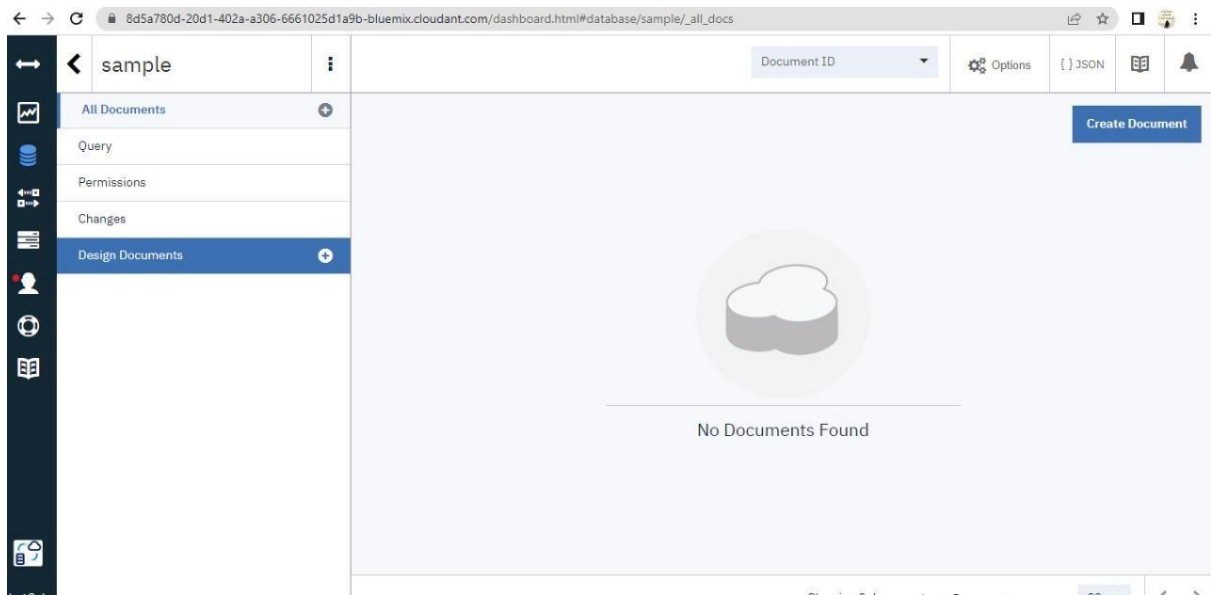
Partitioning:

- ☒ Non-partitioned - recommended for most workloads
- ☐ Partitioned

> Which should I choose?

Buttons: Cancel, Create

Showing 1-0 of 0 databa



← → ↻ 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

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 1

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

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Location

☐ Dallas

☐ Frankfurt

☐ London

☐ Seoul

☐ Sydney

☐ Tokyo


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translations via the service's customization capability.

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IBM Cloud

Search resources and products...

Catalog

Manage

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**Text to Speech**
Synthesizes natural-sounding speech from text.

Catalog /

Create

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IBM

Last updated
11/04/2022

Category
AI / Machine Learning

Compliance
EU Supported
HIPAA Enabled
IAM-enabled

Location
Sydney
Frankfurt
London
Tokyo
Washington DC
Dallas

Related links

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

Search resources and products...

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Resource list /

Text to Speech-vs

Active

Add tags

Details

Actions...

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Start by viewing the tutorial

Getting started tutorial

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Download

Show credentials

API key:

URL:

https://api.us-south.text-to-speech.watson.cloud.ibm.com/instances/db...

Plan

Lite

Upgrade

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

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Text to Speech

Overview

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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.eu-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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Custom words
Custom prompts
Speaker models
Learn data

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>

Feedback

medivine.py - C:/Users/anulj/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('4lx0-G0CCf-DCXV8-ig87ixdM-d_5lhDc9tPuptUMK8')
text_to_speech = TextToSpeechV1(
    authenticator=authenticator
)

text_to_speech.set_service_url('https://api.au-syd.text-to-speech.watson.cloud.ibm.com/instances/db58c83f-c473-47ff-bbfb-3bd30f5edca9')

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

```

EN English (United States)

```
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>
```

