

Creating and configuring IBM Cloud Service

1. Creating IBM Watson IOT Platform and device

The screenshot displays the IBM Watson IoT Platform interface. At the top, there's a navigation bar with 'Browse', 'Action', 'Device Types', and 'Interfaces'. A table lists devices with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. Two devices are shown: 131519 (Disconnected, Esp32) and 200119 (Disconnected, Arduino). The device 200119 is selected, and its details are shown in a modal window. The details include: Device ID (200119), Device Type (Arduino), Date Added (Oct 3, 2022 7:52 PM), Added By (ac19uec116@smartinternz.com), and Connection Status (Disconnected). The connection status details show: Last Connected: Oct 28, 2022 2:31 PM, Client Address: 103.122.15.175, SecureToken, Duration: a few seconds, and Data Transferred: 1.0 KB. At the bottom, it says '2 Simulations running'.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
131519	Disconnected	Esp32	Device	Oct 21, 2022 7:27 AM	
200119	Disconnected	Arduino	Device	Oct 3, 2022 7:52 PM	

Device Details for 200119:

- Device ID: 200119
- Device Type: Arduino
- Date Added: Oct 3, 2022 7:52 PM
- Added By: ac19uec116@smartinternz.com
- Connection Status: Disconnected
- Last Connected: Oct 28, 2022 2:31 PM
- Client Address: 103.122.15.175
- SecureToken
- Duration: a few seconds
- Data Transferred: 1.0 KB

2. Creating Node-RED Service

The screenshot displays the Node-RED interface. It shows a flow diagram with two nodes: 'inject' and 'msg payload'. The 'inject' node is connected to the 'msg payload' node. The interface includes a sidebar with 'common' and 'function' node categories, a top bar with 'Flow 1' and 'Flow 2' tabs, and a right sidebar with 'dashboard' and 'Tabs & Links' sections. The 'inject' node is labeled 'connected'.

```
graph LR; inject[inject] --> msg_payload[msg payload];
```

3. Creating Text to Speech Service

The screenshot shows the IBM Cloud console for the 'Text to Speech-zx' service. The interface includes a top navigation bar with the IBM Cloud logo, a search bar, and user account information. The left sidebar contains a 'Manage' section with links for 'Getting started', 'Service credentials', 'Plan', and 'Connections'. The main content area is titled 'Text to Speech-zx' and shows the service is 'Active'. It includes a 'Start by viewing the tutorial' section with links to 'Getting started tutorial' and 'API reference'. A 'Plan' section shows the 'Lite' plan with an 'Upgrade' button. The 'Credentials' section displays the API key and URL for the service.

Resource list / Text to Speech-zx 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.eu-de.text-to-speech.watson.cloud.ibm.com/instances/`

4. Creating a Database in Cloudant DB

The screenshot shows the Cloudant Databases console. The top navigation bar includes a 'Database name' dropdown, a 'Create Database' button, and a 'JSON' icon. The left sidebar contains a 'Databases' section with a 'Your Databases' link. The main content area displays a table of databases with columns for Name, Size, # of Docs, Partitioned, and Actions. The table lists three databases: 'medicine', 'noderedhinepa20221003', and 'noderedkfscn20221003'. The bottom of the console shows a pagination bar indicating 'Showing 1-3 of 3 databases' and 'Databases per page 20'.

Databases

Database name Create Database {} JSON

Your Databases

Name	Size	# of Docs	Partitioned	Actions
medicine	26 bytes	1	No	View Edit Delete
noderedhinepa20221003	2.3 KB	2	No	View Edit Delete
noderedkfscn20221003	30.6 KB	4	No	View Edit Delete

Showing 1-3 of 3 databases. Databases per page 20