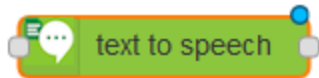


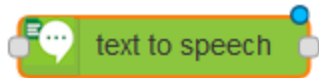
# Lab 2 – Watson Text 2 Speech

## 1 Overview

The Watson text-To-Speech (TTS) service produces an audio file from literal text. The spoken text can be emitted with a choice of voices and languages.

## 2 Which Node-RED node gets used here

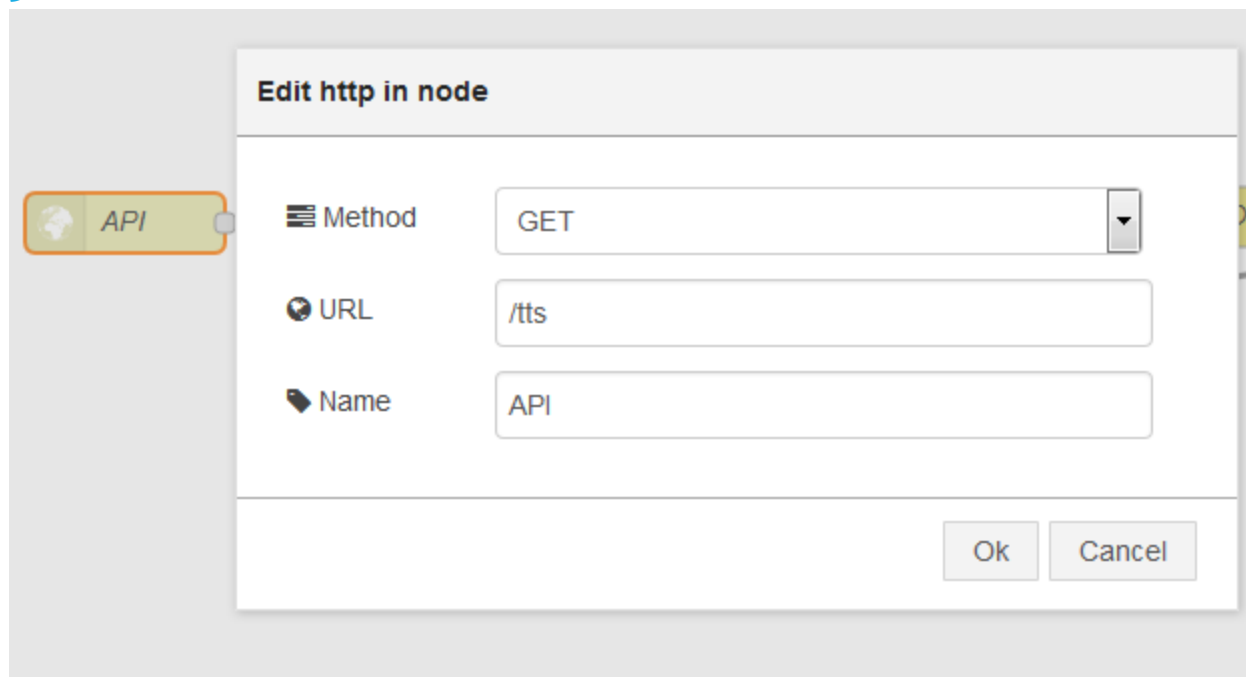


The Node-RED  node provides a very easy wrapper node that takes an text and converts it to speech.

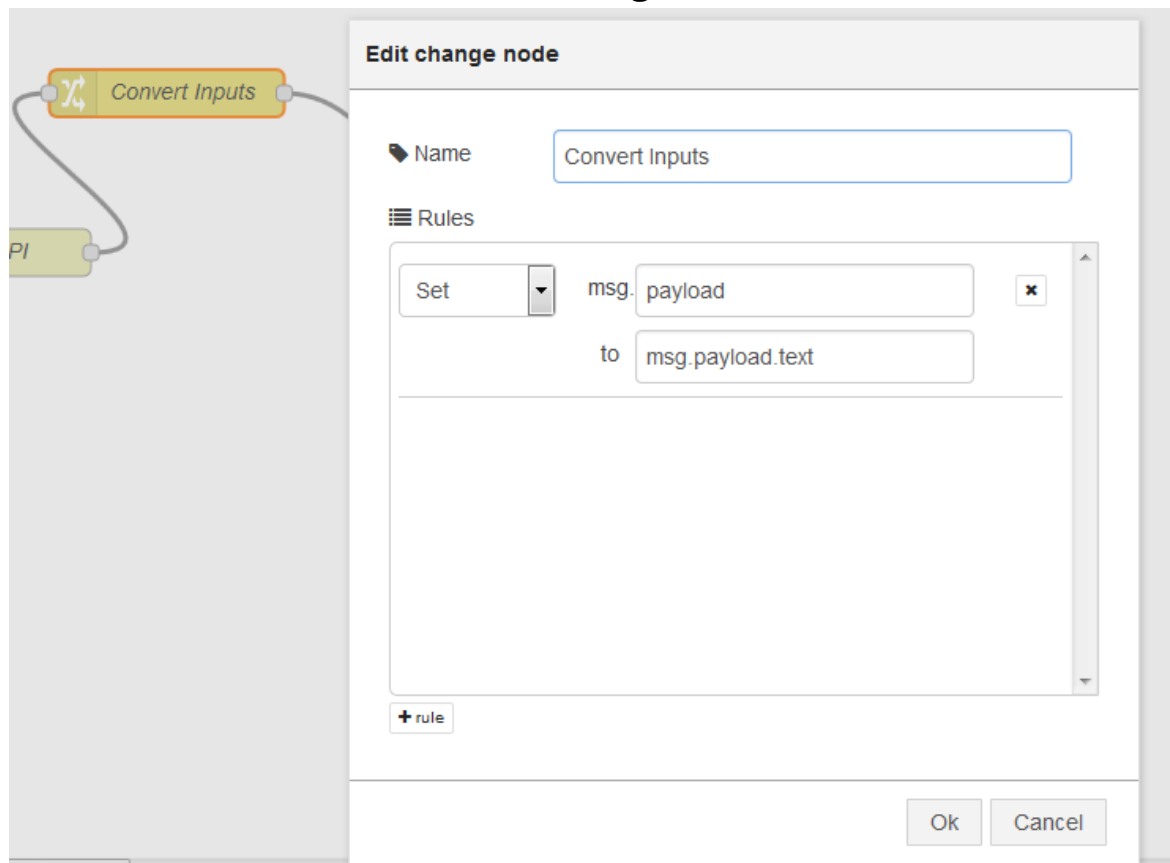
## 3 Steps to Create

There are 6 steps to create the whole flow.

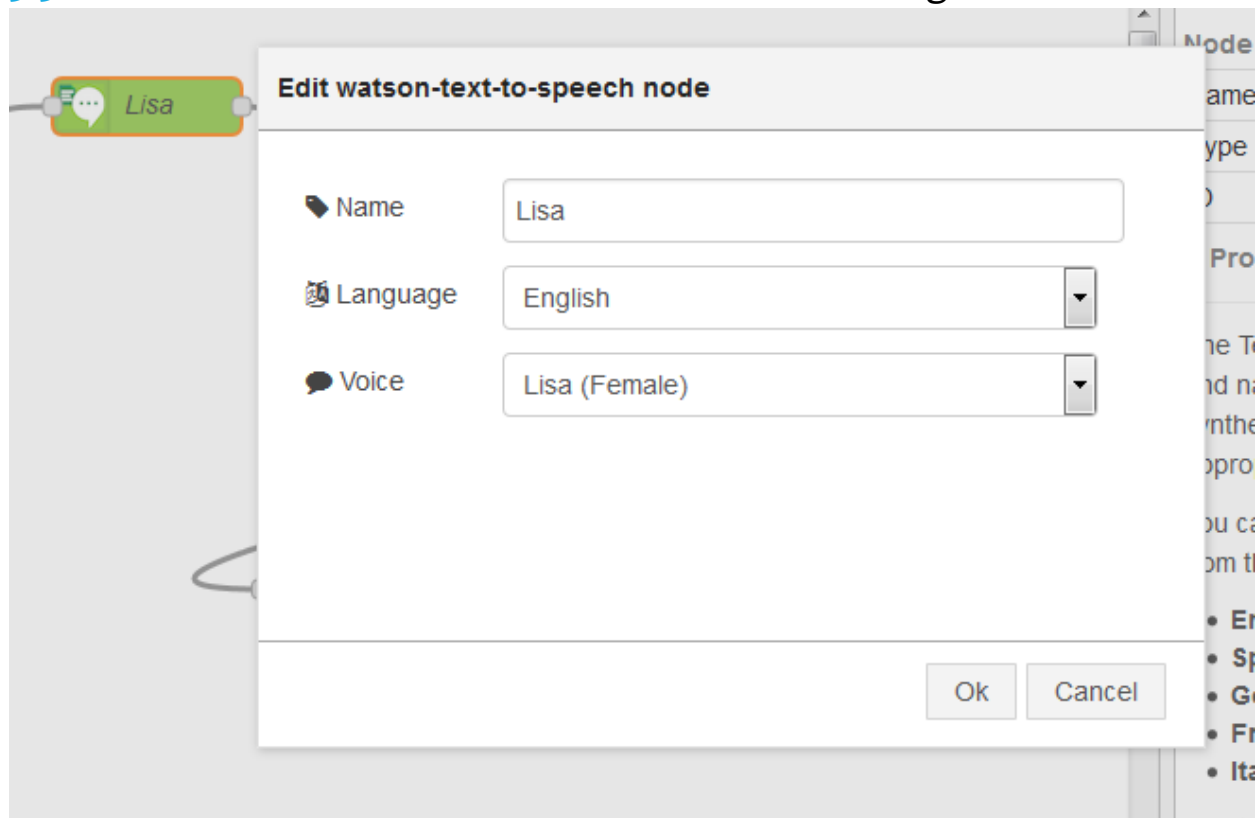
### 3.1 Add a HTTP node



### 3.2 Add a CHANGE node and configure as below



### 3.3 Add a Watson TEXT-TO-SPEECH node and configure as below



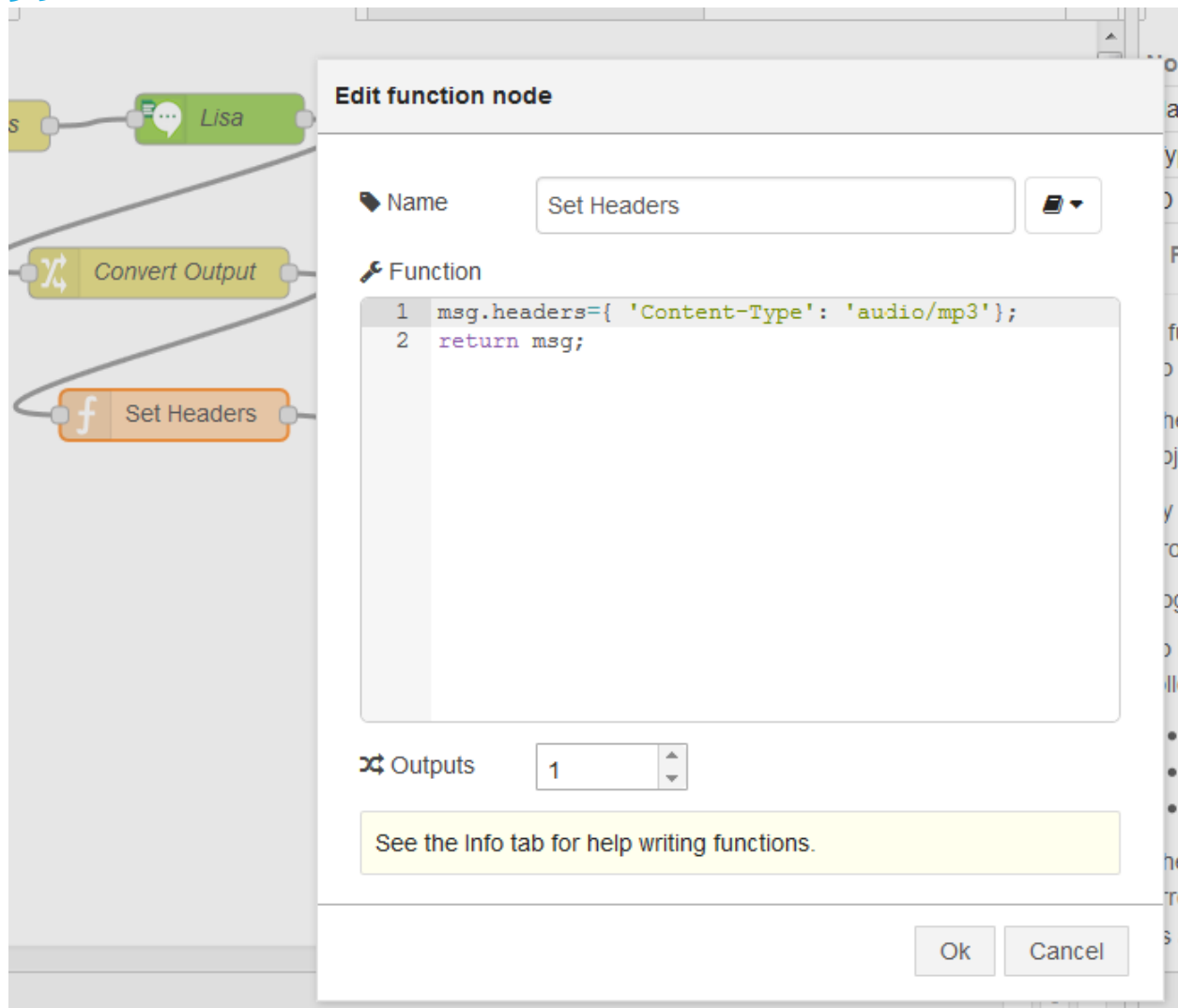
### 3.4 Add a CHANGE node to convert variables

The screenshot displays the IBM Bluemix Watson Studio interface. On the left, a workflow is visible with a yellow node labeled 'outs' connected to a green node labeled 'Lisa'. Below 'outs' is an orange node labeled 'Convert Output'. A line connects the 'Convert Output' node to the 'Edit change node' dialog box on the right.

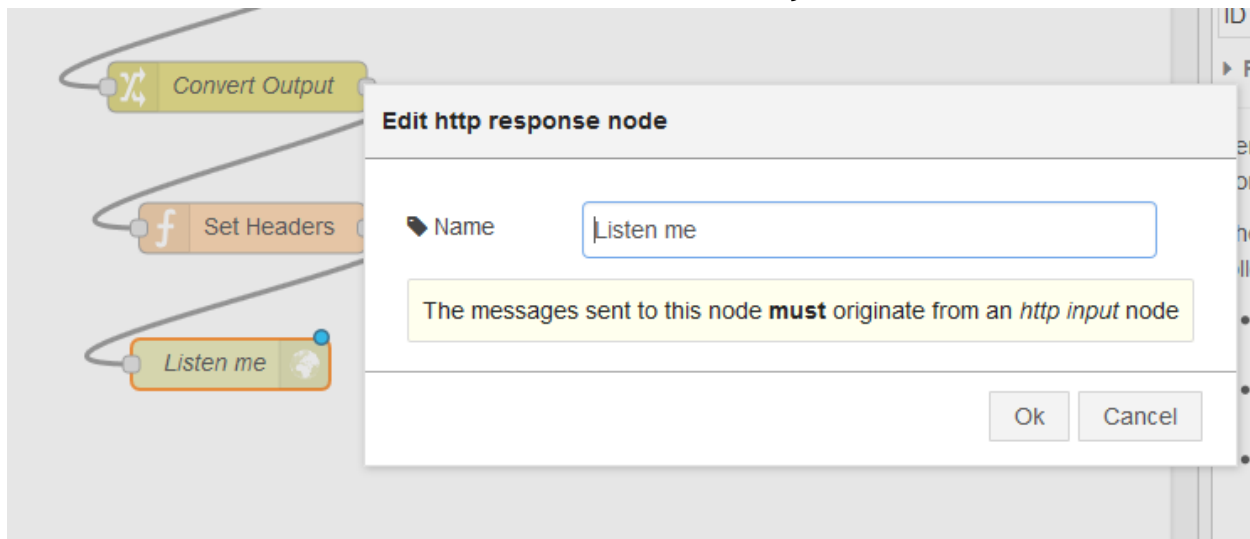
The 'Edit change node' dialog box has a title bar with the text 'Edit change node'. It contains the following fields and controls:

- Name:** A text field containing 'Convert Output'.
- Rules:** A list of rules. The first rule is shown with a dropdown menu set to 'Set', followed by 'msg.payload' in a text field, and 'to msg.speech' in another text field. There is a small 'x' icon to the right of the first text field.
- + rule:** A button to add a new rule.
- Buttons:** 'Ok' and 'Cancel' buttons at the bottom right.

### 3.5 Add a FUNCTION node and set headers

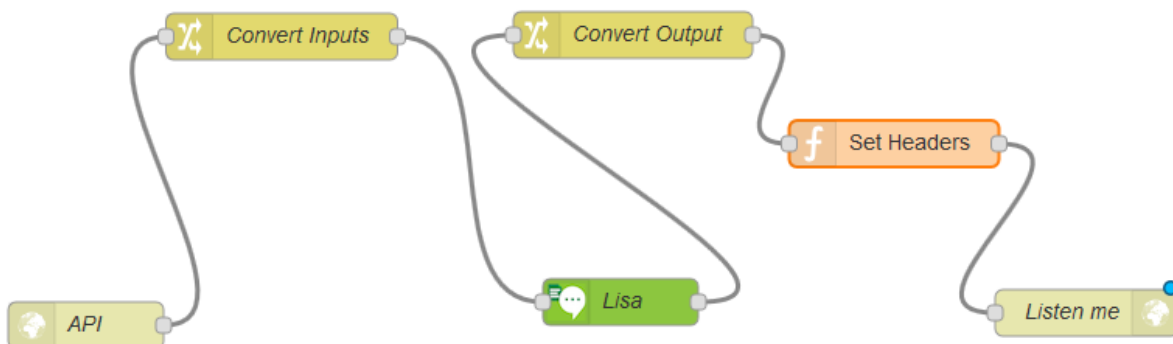


### 3.6 Add a HTTP RESPONSE node and modify its name



## 4 Steps to see Output

### 4.1 Verify that flow looks as below



### 4.2 Deploy this flow using the button

- 4.3 See the output using the app url <Your App Name>.mybluemix.net/tts

## 5 Learn more

- 5.1 Follow me @ShubhPrevails to get instant access to all the free Bluemix and Watson events and sessions in Bangalore.
- 5.2 Join my meetup group <http://www.meetup.com/thebluemix/>
- 5.3 Watch my github repo for Watson and Alchemy Code and recipes: - <https://github.com/ShubhradeepNandi/WatsonLabs>