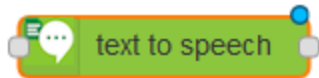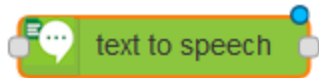# Lab 2 – Watson Speech 2 Text

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.

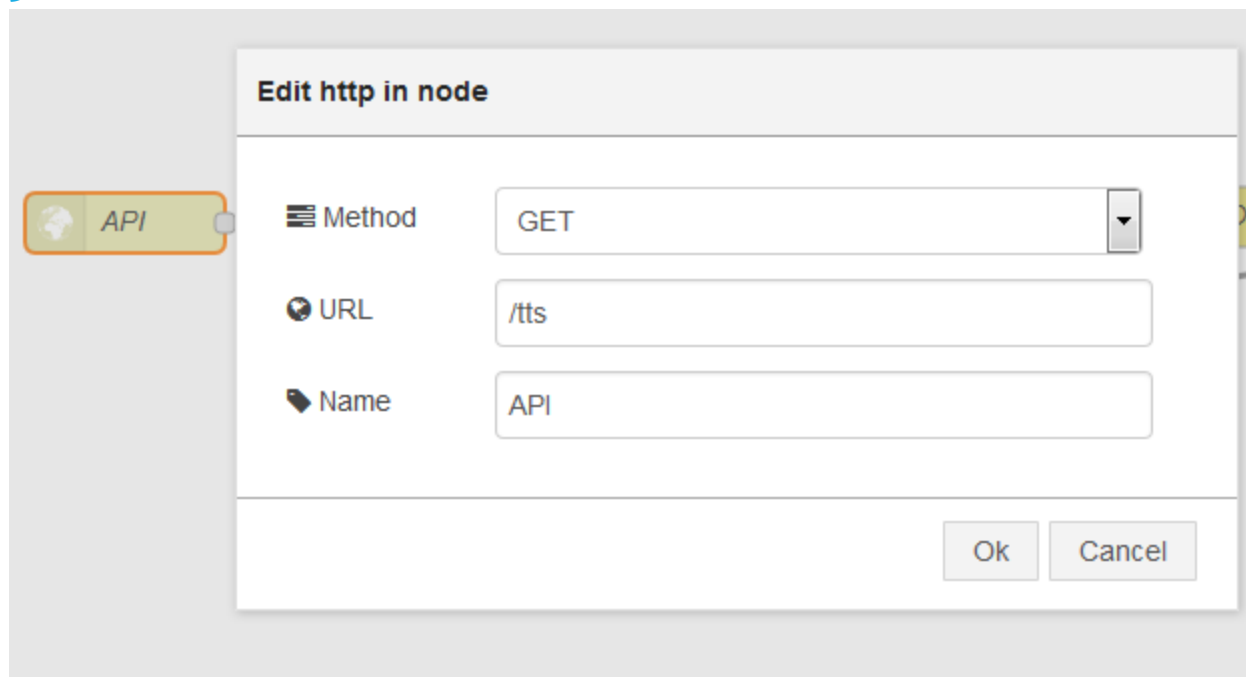## 2 Which Node-RED node gets used here

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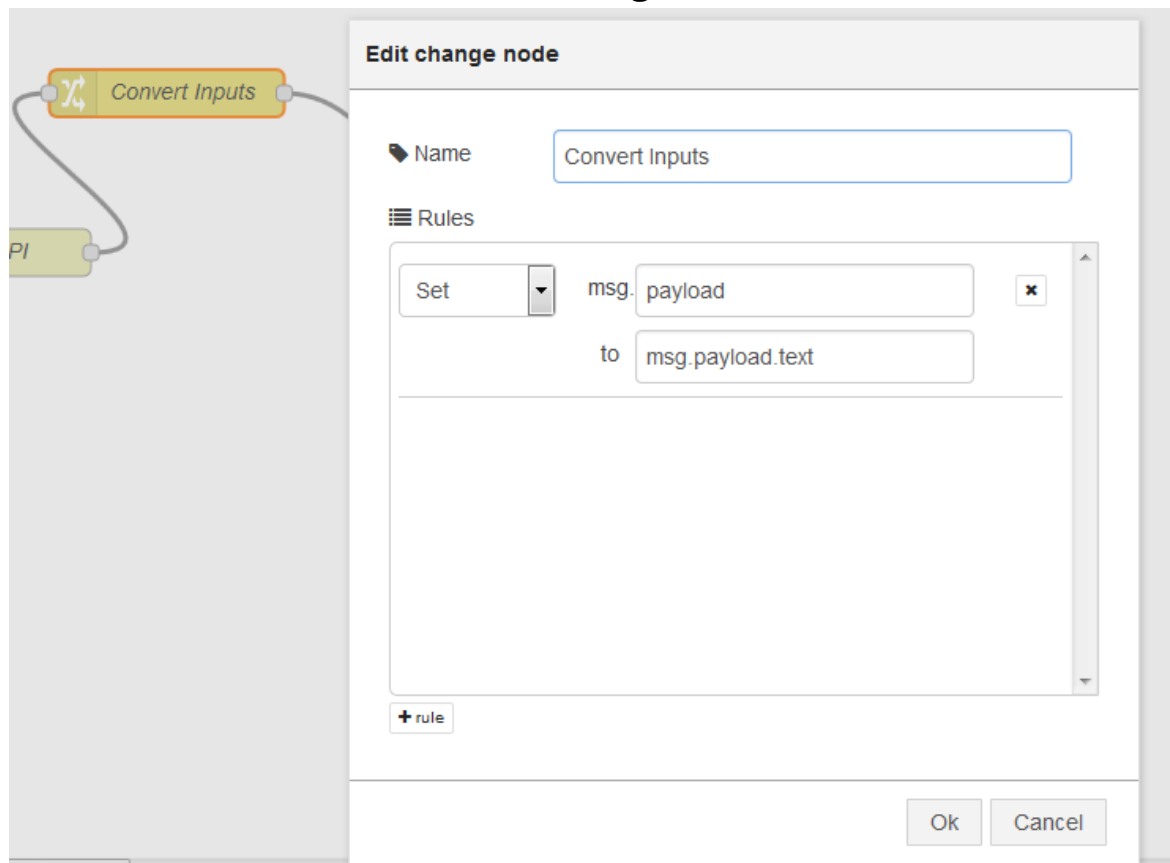
3 Steps to Create

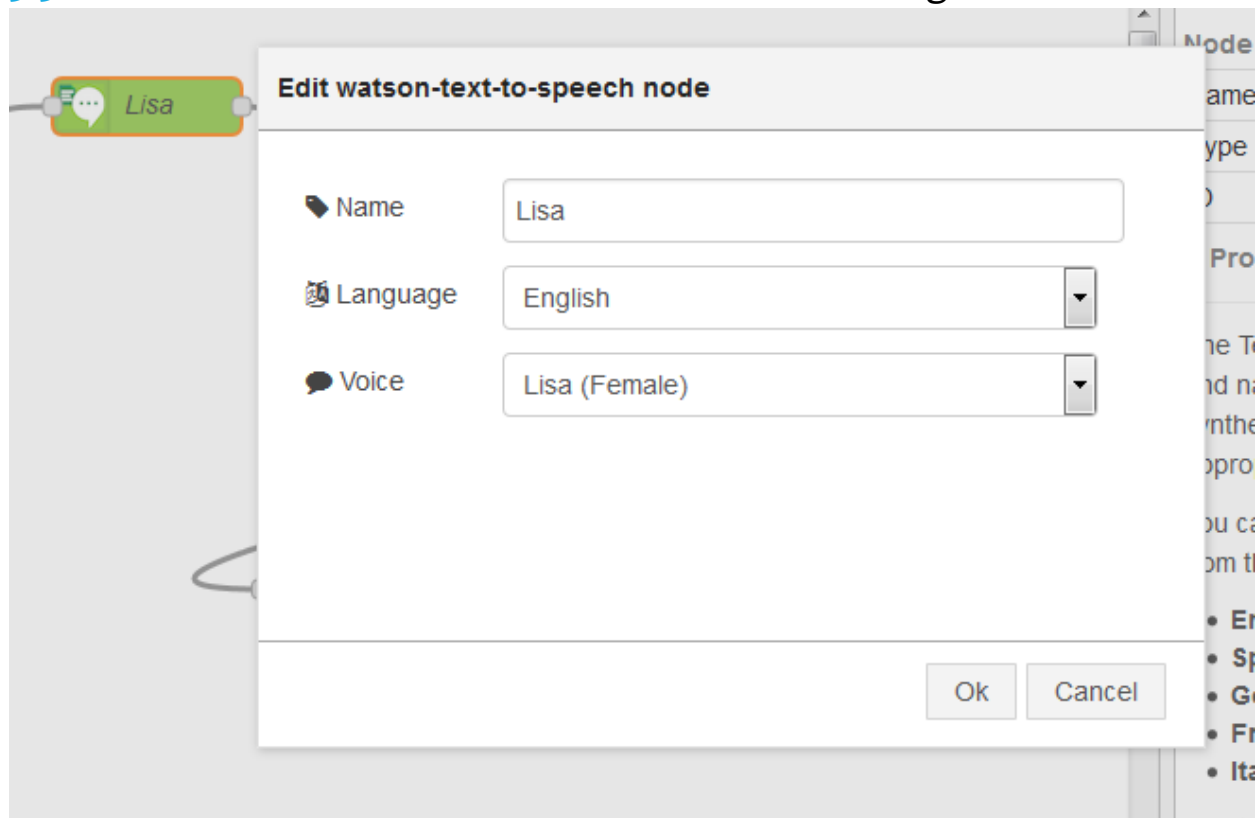There are 6 steps to create the whole flow.

3.1 Add a HTTP node

3.2 Add a CHANGE node and configure as below

Edit change node

🏷 Name   Convert Inputs

≡ Rules

Set ▾	msg. payload	✖
	to msg.payload.text	

➕ rule

Ok   Cancel

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

Edit watson-text-to-speech node

Name	Lisa
Language	English
Voice	Lisa (Female)

Ok   Cancel

3.4 Add a CHANGE node to convert variables

3.5 Add a FUNCTION node and set headers

Edit function node

🏷 **Name**   [Set Headers]   [📖 ▾]

🔧 **Function**

```
1   msg.headers={ 'Content-Type': 'audio/mp3'};
2   return msg;
```

⤬ **Outputs**   [1] ▲▼

See the Info tab for help writing functions.
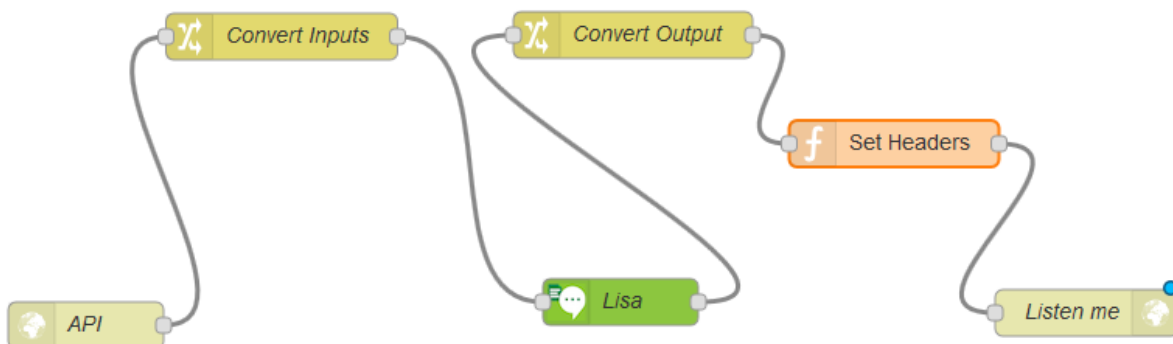
[Ok]   [Cancel]
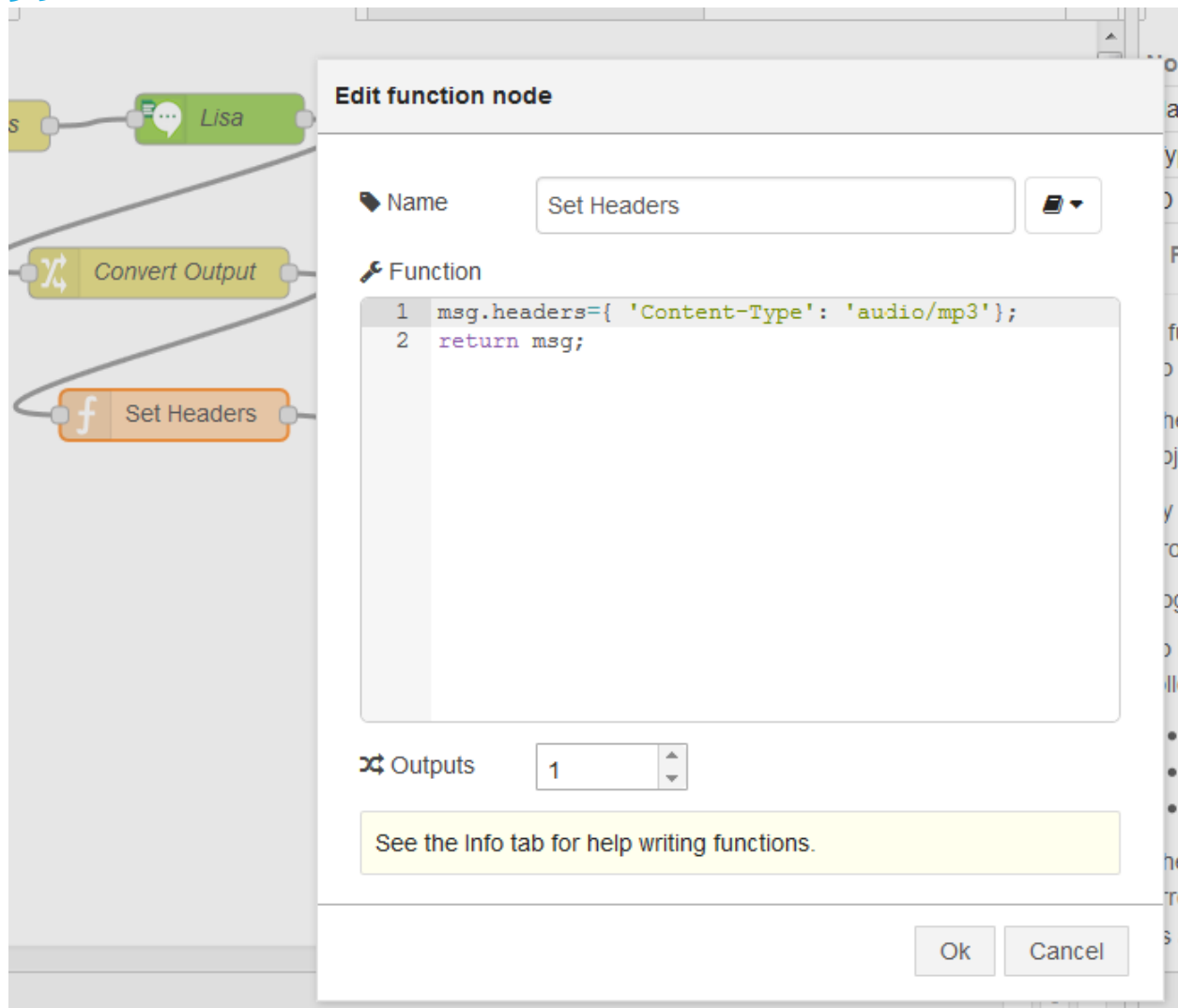
3.6 Add a HTTP RESPONSE node and modify its name
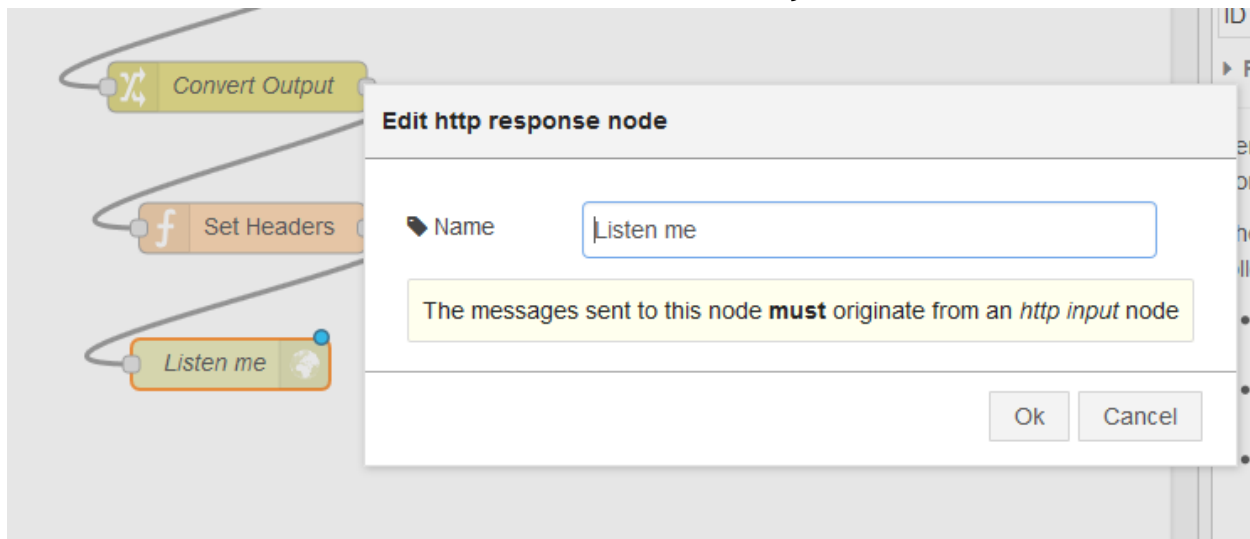
4 Steps to see Output

4.1 Verify that flow looks as below

4.2 Deploy this flow using the [Deploy ▾] 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*