

ICP4

[Edit](#)[New Page](#)[Jump to bottom](#)

MonkeyCanCode edited this page on Feb 15 · 1 revision

[Source](#)[Video](#)

🔗 Introduction

For ICP4, I created a Node-RED flow to retrieve weather data with openweather API then parsed the output and forward result to debug, Twitter, and Email (did it for fun).

Objectives

The objective for this ICP is to introduce Node-RED to the class and show us how simply it is to create a flow in Node-Red in order to accomplish certain tasks (in this case, a flow that will send weather data to Twitter).

Approaches/Methods

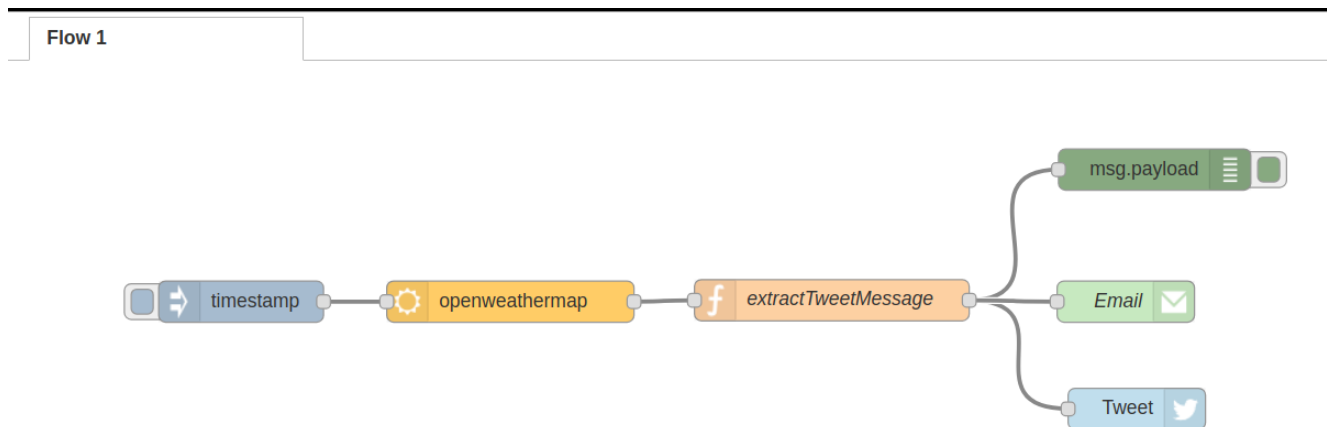
- Create a Twitter account
- Create an API key from my Twitter Account
- Create an openweather account
- Create an API key from my openweather account
- Install node-red-node-openweathermap in Node-RED via palette
- Construct Node-RED flow
- Fill login info, API key, and settings for each node in Node-RED
- Deploy flow
- Run flow

Workflow

- Create various accounts and request API keys from these services
- Construct Node-RED flow
- Deploy flow
- Run flow
- Check result

Diagram

Here is Node-RED flow:




Here is the message sent to Twitter from Node-RED flow:



Here is the message sent to Gmail from Node-RED flow:

Current Weather Information

[Inbox](#) **yongzheng0809@gmail.com**to me 

Weather update:The weather in Olathe at coordinates: 38.88, -94.82 is
Clouds (overcast clouds).



Reply



Forward

Parameters

- Install node-red-node-openweathermap for Node-RED

Evaluation & Discussion

This ICP is an introduction to Node-RED. It is really easy to construct flow in Node-RED.

Conclusion

From this ICP, I learned how to use Node-RED and how to construct a basic flow for sending weather data from Node-RED to Twitter and Email.

[+ Add a custom footer](#)**▼ Pages** 18[Home](#)[ICP1](#)

ICP11 and ICP12
ICP13
ICP14
ICP2
ICP3
ICP4
ICP5
ICP6
ICP7
ICP8
ICP9
Lab1
Lab2
Show 3 more pages...

+ Add a custom sidebar

Clone this wiki locally

https://github.com/MonkeyCanCode/IOT.wiki.git