

How to Build Node-RED –Email Attack



v1 jan 2020 : v2 mar 2021
Safyzan Salim

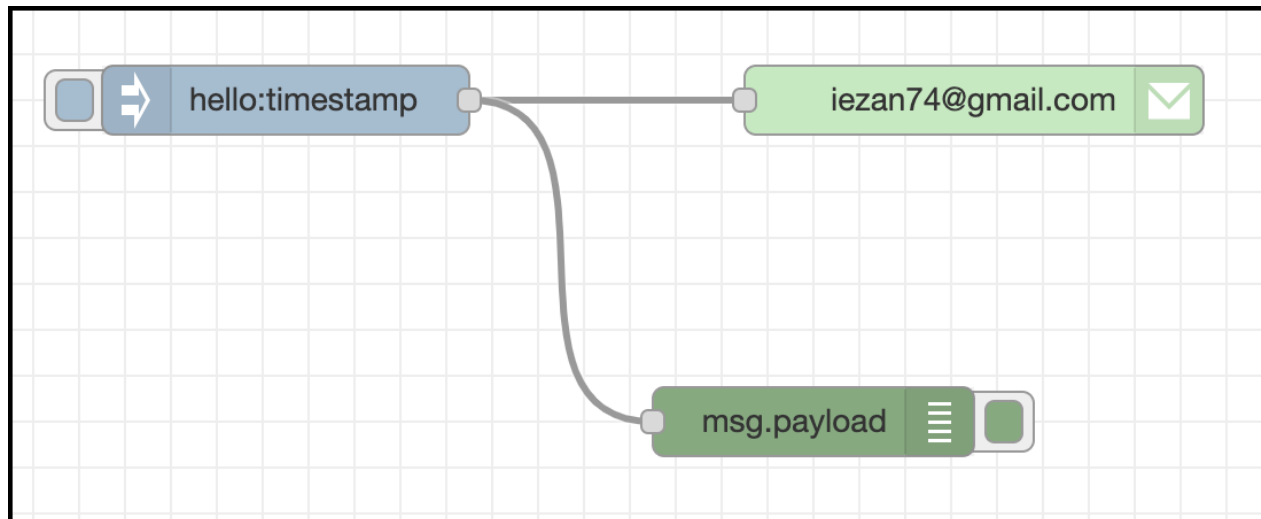
SCENARIO: Sending Information to Email

Create 1 new Gmail account which later will be used as sender/source & for receiving email, you may use you existing email.

Develop a simple solution that will send an email to the with the content of you names and staff id.

The email will send automatically every 30 seconds. The email sent must be shown at debug window.

Note: Open new Flow



SCENARIO: Sending Information to Email

1. Install **email** palette.

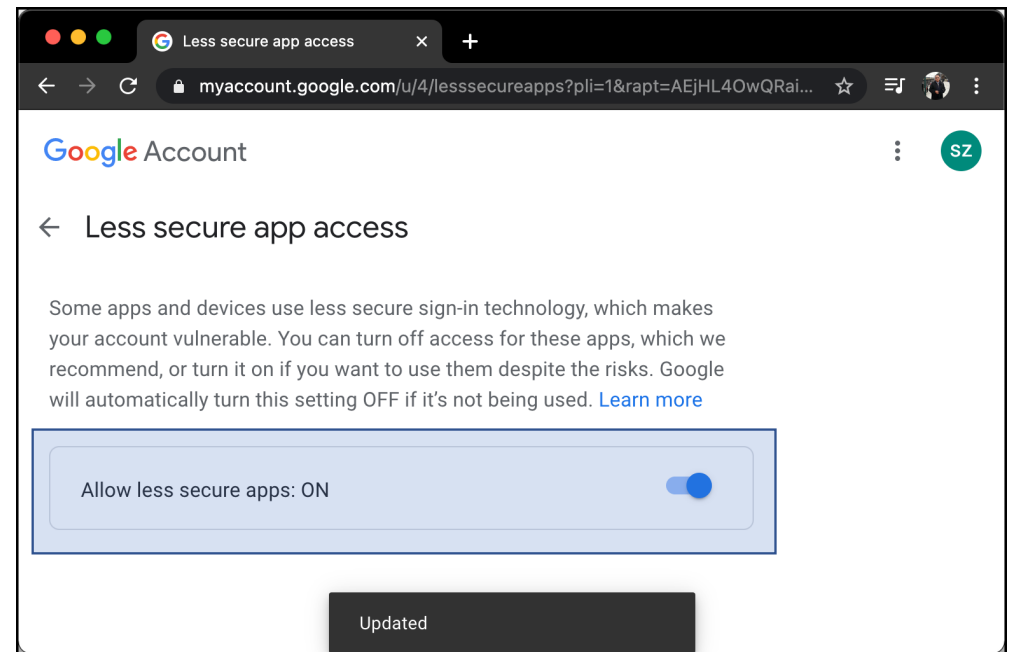
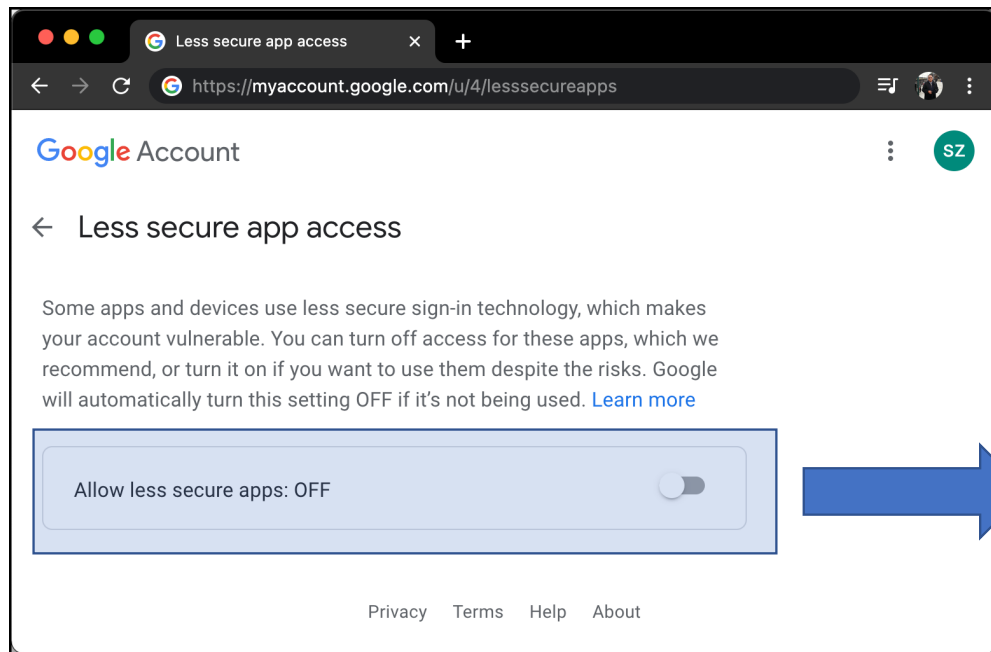
The screenshot shows the Node-RED web interface in a browser. The address bar displays `127.0.0.1:1880/#flow/2f3d1b69.7b8144`. A notification box in the top center states: "Nodes added to palette: e-mail, e-mail in". The left sidebar contains the "User Settings" menu, with "View" and "Keyboard" sub-menus. The "Nodes" tab is active, showing a search bar with "email" and a list of three nodes:

Node Name	Description	Version	Updated	Status
node-red-node-email	Node-RED nodes to send and receive simple emails	1.7.8	2 months ago	installed
node-red-contrib-email-out	Node-RED contrib nodes to send simple emails with output	0.1.1	2 years, 6 months ago	install
node-red-contrib-email-validator	Node-RED Contribution - Email Validator	0.2.0	3 weeks ago	install

The right sidebar shows the "Flow" information panel with details for "Flow 3" (ID: "2f3d1b69.7b8144", Status: Enabled). The "Description" panel is also visible.

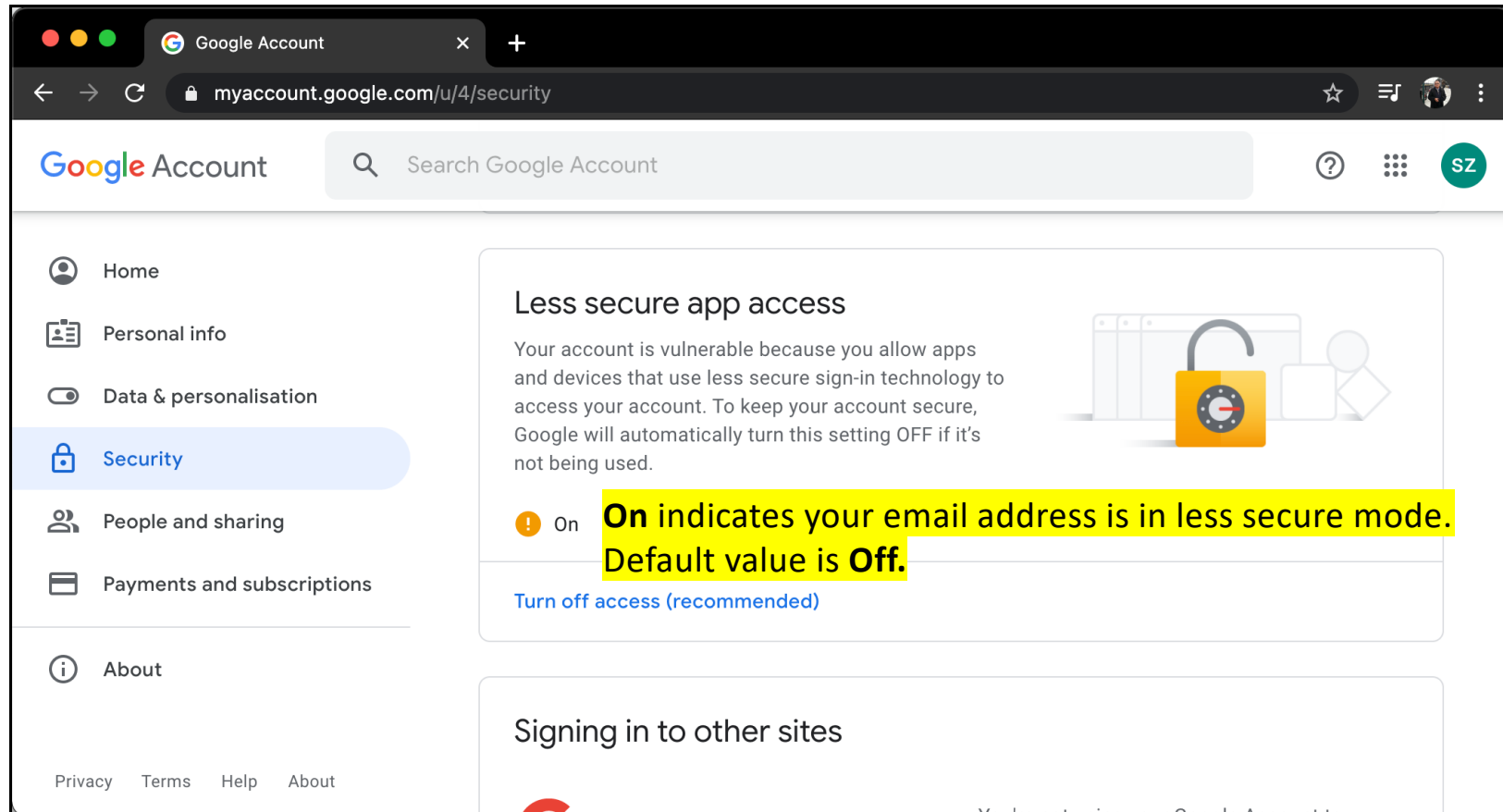
SCENARIO: Sending Information to Email

Note: Make sure to allow less secure apps. Refer to the following link:
<https://myaccount.google.com/lesssecureapps?pli=1>



SCENARIO: Sending Information to Email

OR find **Manage GOOGLE Account >> Security >> Less secure app access**



SCENARIO: Sending Information to Email

Add the following nodes:

- >> Inject
- >> Debug
- >> Send Email

Connect as at Figure i.

Double click inject node to edit. Refer the settings at Figure ii.

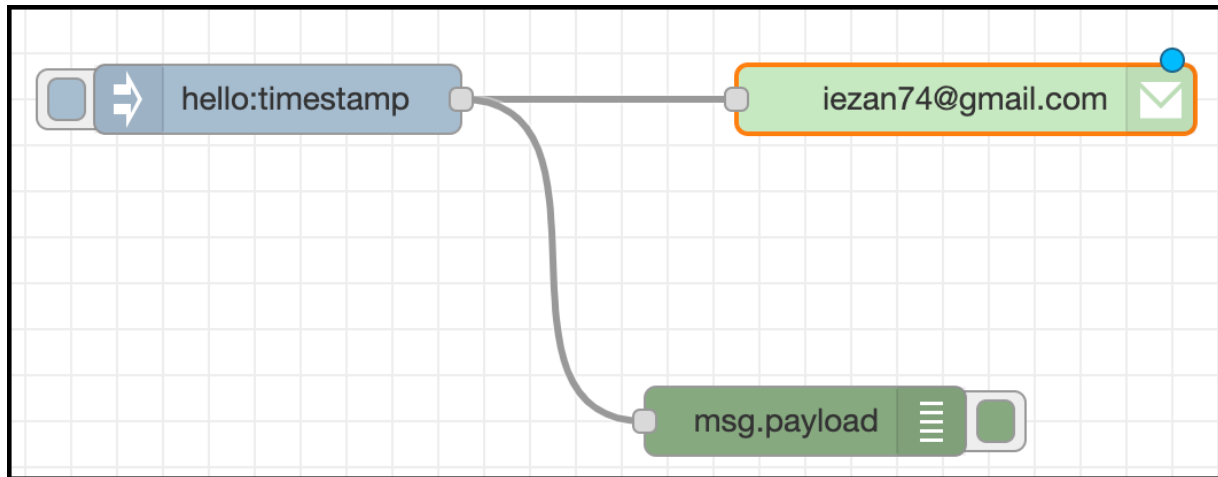


Figure i

Edit inject node

Delete Cancel Done

Properties

Name

msg. payload = timestamp

msg. topic = hello

+ add

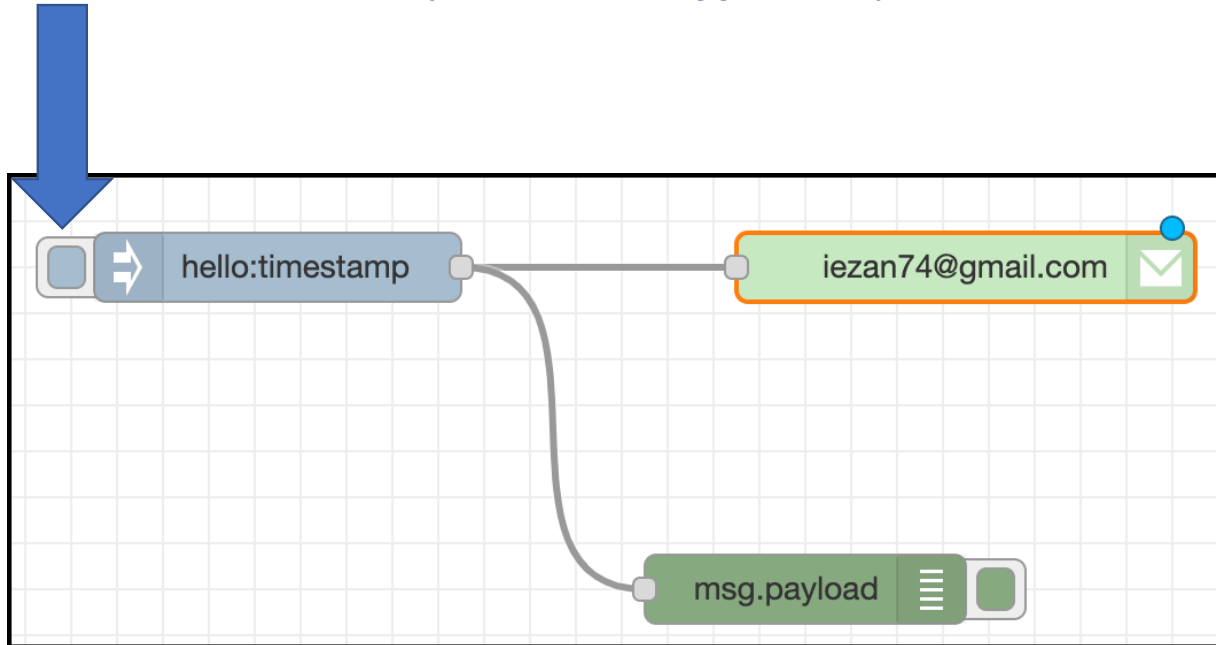
Figure ii

SCENARIO: Sending Information to Email

Double click email node to edit. Refer the settings at Figure 2iii & click Done.

Click Deploy to update & save the project.

Click at left part of the inject node to trigger the system.



Edit email node

Delete Cancel Done

Properties

To iezan74@gmail.com

Server smtp.gmail.com

Port 465 ☒ Use secure connection.

Userid scriptworkz.gmi21@gmail.com

Password

Use TLS? ☒

Name Name

Figure 2iii

EXERCISE 2: Sending Alert to Email

The output:

The screenshot shows a Node-RED workflow on the left and its output in the console on the right. The workflow consists of a 'timestamp' node connected to an 'email' node (labeled 'iezan74@gmail.com') and a 'msg.payload' node. The console displays three log entries, each showing a timestamp, a node ID, and a message payload.

Timestamp	Node ID	Message Payload
02/03/2021, 02:33:09	30fe6e60.4338d2	1614623589154
02/03/2021, 02:33:13	30fe6e60.4338d2	1614623593408
02/03/2021, 02:33:14	30fe6e60.4338d2	1614623594200

The screenshot shows an email received from 'scriptworkz.gmi21@gmail.com' to the user 'me'. The email content is the number '1614623508808'. The email was received at '02:31 (0 minutes ago)'.

scriptworkz.gmi21@gmail.com
to me ▾
1614623508808

02:31 (0 minutes ago) ☆ ↩ ⋮

QnA

END