

How to Build Node-RED –Email Attack



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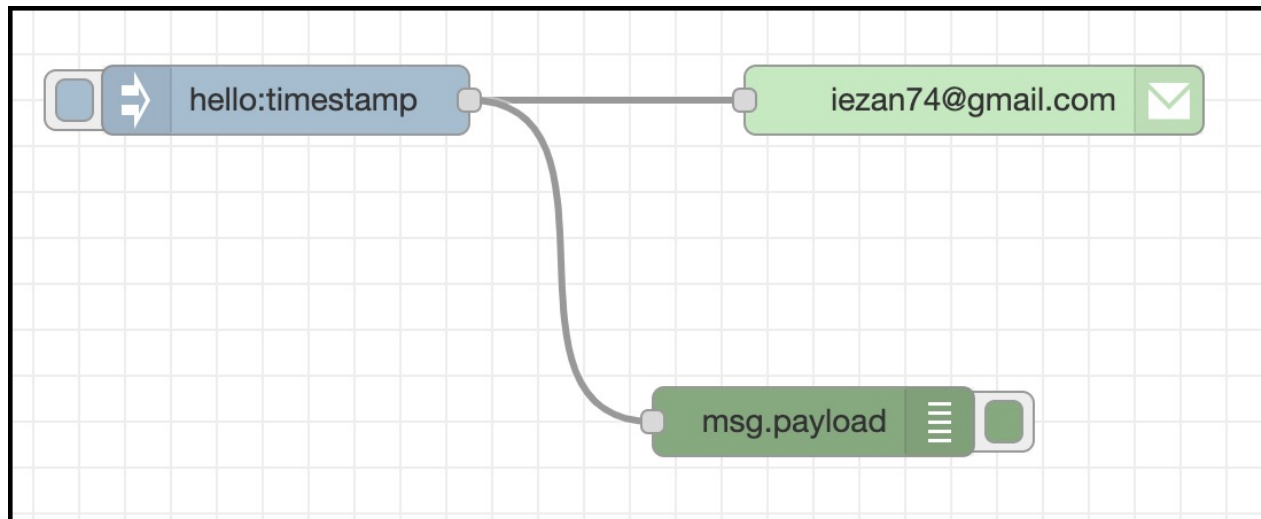
SCENARIO: Sending Information to Email

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 the URL `127.0.0.1:1880/#flow/2f3d1b69.7b8144`. On the left sidebar, the 'User Settings' menu is open, and the 'Nodes' tab is selected. A search bar at the top of the nodes list contains the text 'email', and the results are sorted by 'recent'. Three nodes are listed in the palette:

- node-red-node-email**: Node-RED nodes to send and receive simple emails. Version 1.7.8, installed 2 months ago. The 'installed' button is visible.
- node-red-contrib-email-out**: Node-RED contrib nodes to send simple emails with output. Version 0.1.1, installed 2 years, 6 months ago. The 'install' button is visible.
- node-red-contrib-email-validator**: Node-RED Contribution - Email Validator. Version 0.2.0, installed 3 weeks ago. The 'install' button is visible.

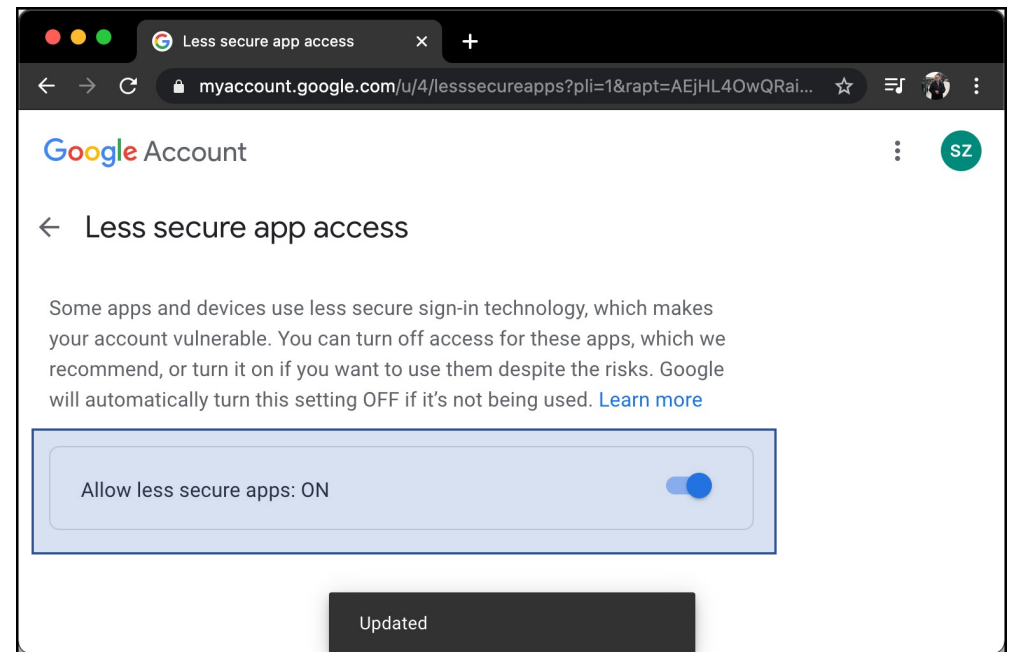
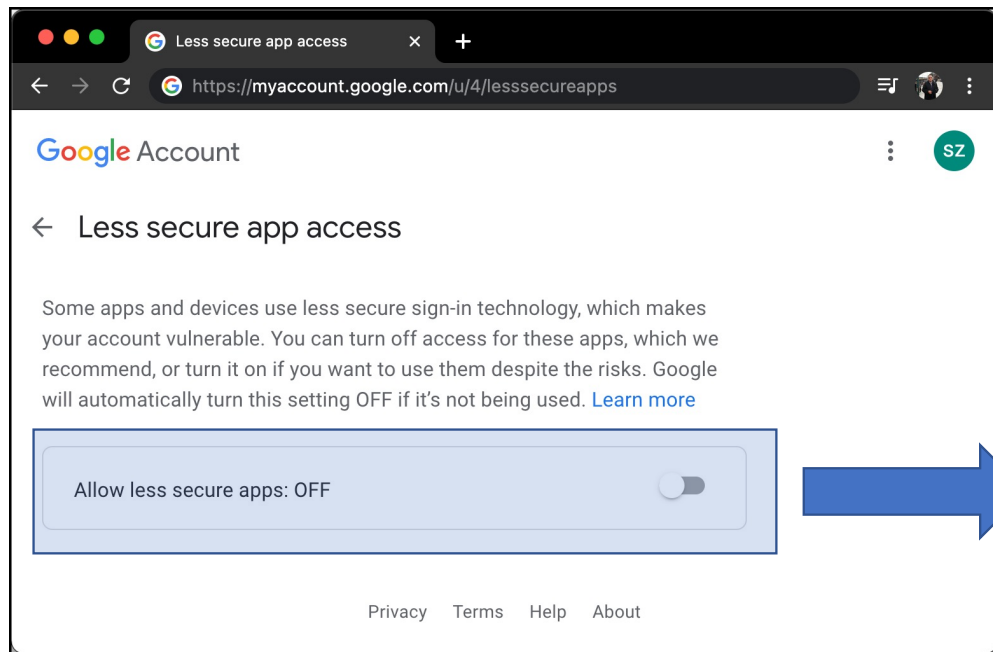
A green-bordered tooltip box is overlaid on the interface, displaying the text: 'Nodes added to palette:' followed by a bulleted list:

- e-mail
- e-mail in

On the right side of the interface, the 'Flow Information' panel is visible, showing details for the current flow: 'Flow' ID is '2f3d1b69.7b8144', 'Name' is 'Flow 3', and 'Status' is 'Enabled'. Below this, a 'Description' section is partially visible.

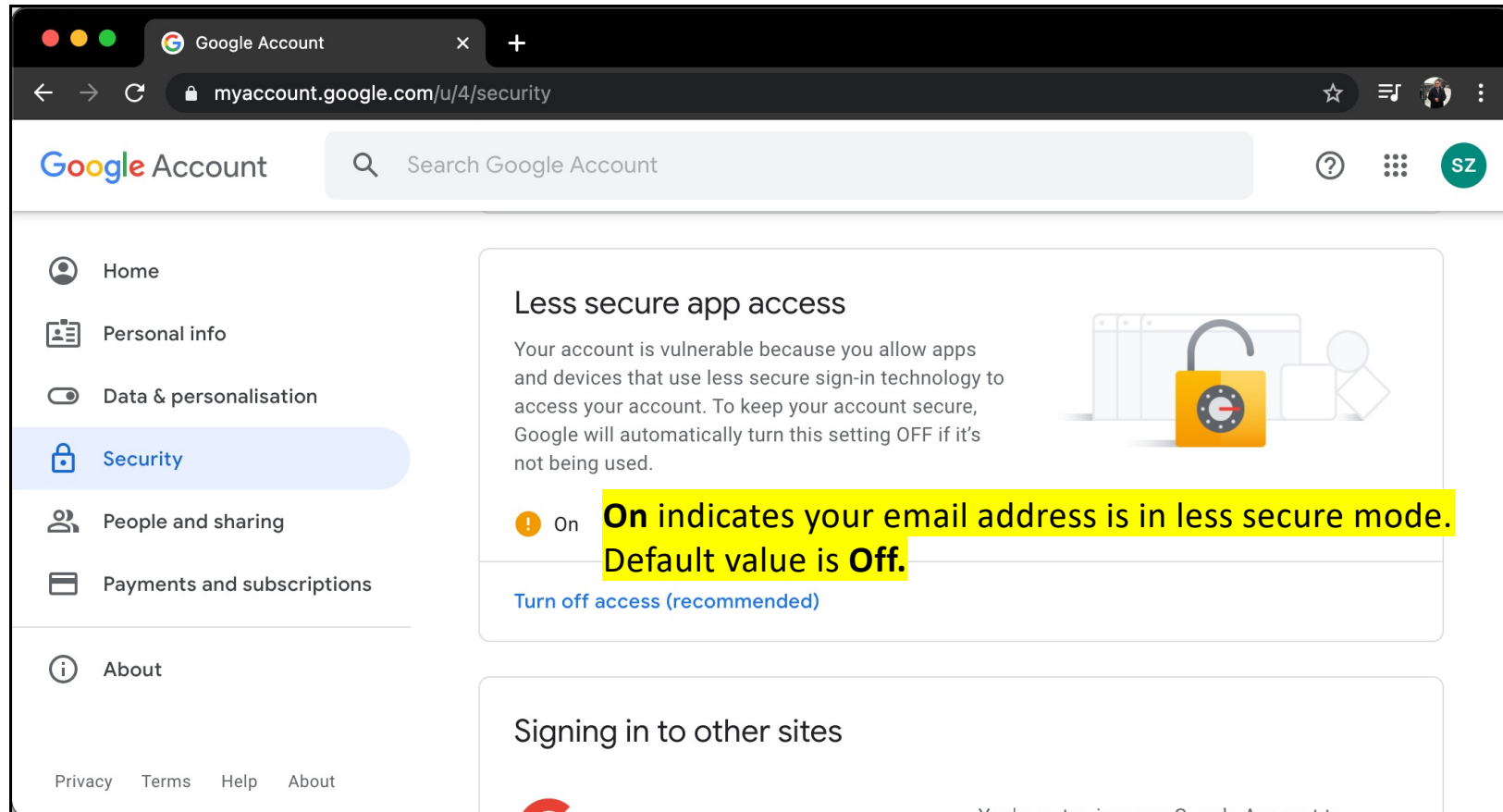
SCENARIO: Sending Information to Email

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



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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.

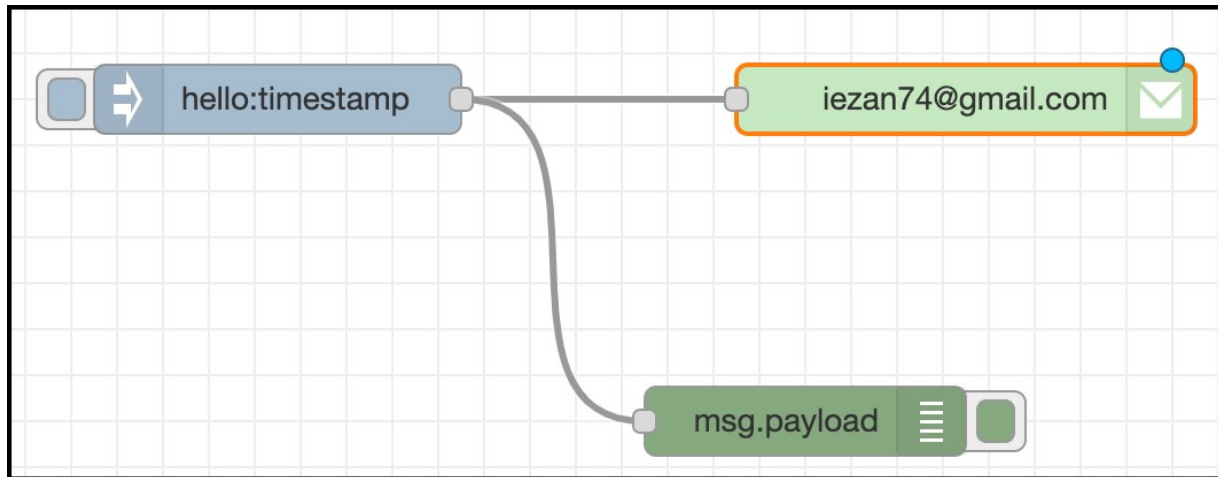


Figure i

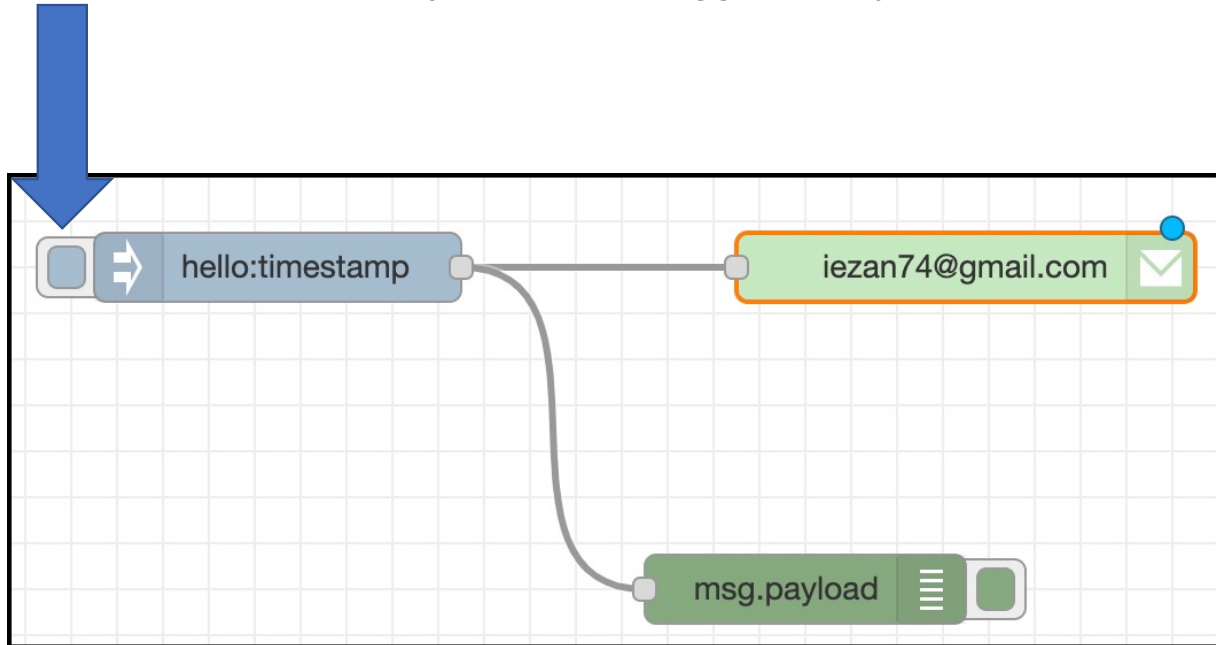
Figure ii

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 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 output console displays three messages:

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

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

QnA

END