

Date
14/10/21

Neuroj Appan TO73 ~~Appan~~

Practical -07

SDS	Page No.
Date	

Aim: Setup a TCP server & client on a raspberry pi using Python modules to send message and execute shell commands from within python such as starting another application

Steps

- 1) Open Node-Red from application.
- 2) Open browser and type: localhost:1880
- 3) Drag and drop the nodes - inject, function, tcp request and debug.
- 4) Click on function node.
- 5) Name = SE7 GE7 request string

Msg. payload = "GE7/H77P/1.1 Host:www.google.com"

Output =

• Click on tcp request: Server = www.google.com Port:80

Timeout: 1000ms

• Click on the function node.

Name = parse response buffer into string - msg.payload
= msg.payload.tostring('utf-8') return msg;

Output =

• Double Click on function.

Node-RED

localhost:1880/#flow/ca692c82d7f14fb

Node-RED

filter nodes

common

inject

debug

complete

catch

status

link in

link out

comment

function

function

switch

change

range

template

Flow 1

timestamp

Edit function node

Delete

Cancel

Done

Properties

Name

parse response buffer into string

Setup

On Start

On Message

On Stop

1 msg.payload = msg.payload.toString('utf- 8')

2 return msg;

Enabled

info

Search flows

Flows

Flow 1

Subflows

Global Configuration Nodes

parse response buffer into string

Node "84b14d933084ba58"

Type function

show more

Search for nodes using ctrl-f

Type here to search

08:01 14-10-2021

Node-RED

localhost:1880/#flow/caf692c82d7f14fb

Node-RED

filter nodes

common

inject

debug

complete

catch

status

link in

link out

comment

function

function

switch

change

range

template

Flow 1

timestamp

Edit function node

Delete

Cancel

Done

Properties

Name

SET GET request string

Setup

On Start

On Message

On Stop

1 msg.payload = "GET /HTTP/1.1\r\n\r\nHost:www.google.com";

2 return msg;

3

Enabled

info

Search flows

Flows

Flow 1

Subflows

Global Configuration Nodes

SET GET request string

Node

"f52b55f42b26b199"

Type

function

show more

Search for nodes using

ctrl-f

Type here to search

07:58

14-10-2021

Node-RED

ReferenceError: date is not defined | javascript - Uncaught ReferenceE | +

localhost:1880/#flow/ca692c82d7f14fb

Node-RED

Deploy

filter nodes

Flow 1

common

inject

debug

complete

catch

status

link in

link out

comment

function

function

switch

change

range

template

timestamp

SET GET request string

tcp:www.google.com:80

parse response buffer into string

msg.payload

debug

all nodes

10/14/2021, 8:02:15 AM node: SET GET request string
function : (error)
"ReferenceError: date is not defined (line 6, col 15)"

10/14/2021, 8:04:15 AM node: SET GET request string
function : (error)
"ReferenceError: date is not defined (line 6, col 15)"

10/14/2021, 8:04:19 AM node: SET GET request string
function : (error)
"ReferenceError: date is not defined (line 6, col 15)"

Type here to search

14-10-2021 08:04

Node-RED

localhost:1880/#flow/caf692c82d7f14fb

Node-RED

Deploy

filter nodes

template

delay

trigger

exec

filter

network

mqtt in

mqtt out

http in

http response

http request

websocket in

websocket out

tcp in

tcp out

Flow 1

timestamp

Edit function node

Delete

Cancel

Done

Properties

Name

SET GET request string

Setup

On Start

On Message

On Stop

```
1 // Create a Date object from the payload
2 var str =2;
3 var str1 = 2;
4 var ans = str+ str1;
5 // Change the payload to be a formatted Date string
6 msg.payload = date.toString();
7 // Return the message so it can be sent on
8 return msg;
```

Enabled

info

Search flows

Flows

Flow 1

Subflows

Global Configuration Nodes

function: f52b55f42b26b199

Node

f52b55f42b26b199

Type

function

show more

Pressing enter will edit the first node in the current selection

Type here to search

07:44

14-10-2021