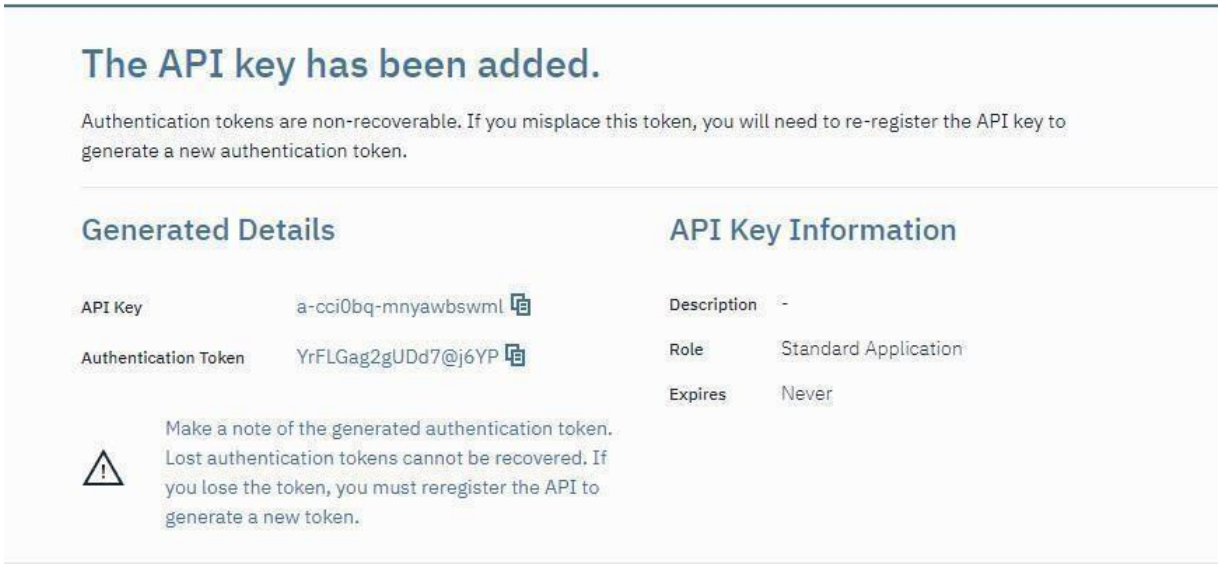
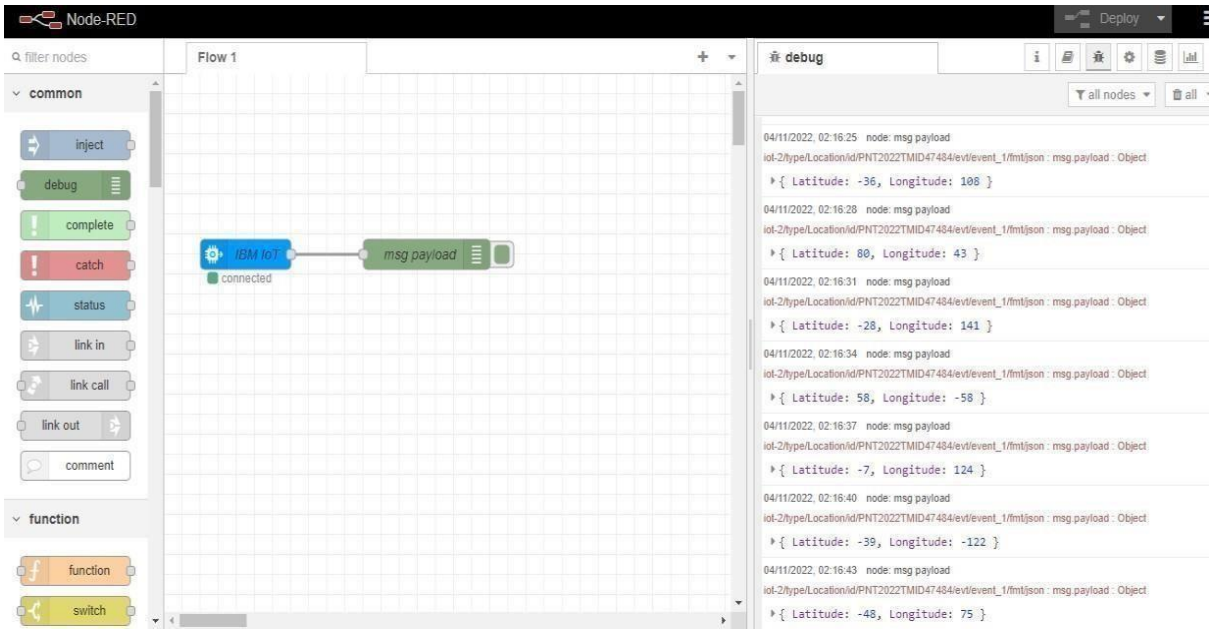
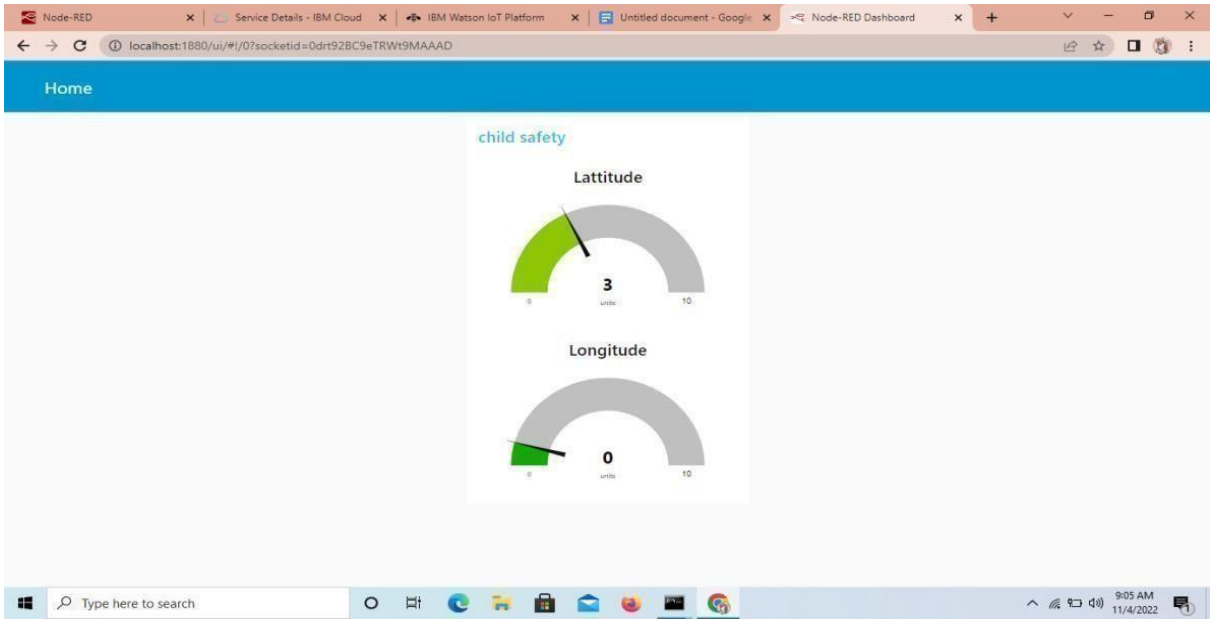
Project Development Phase SPRINT- 2

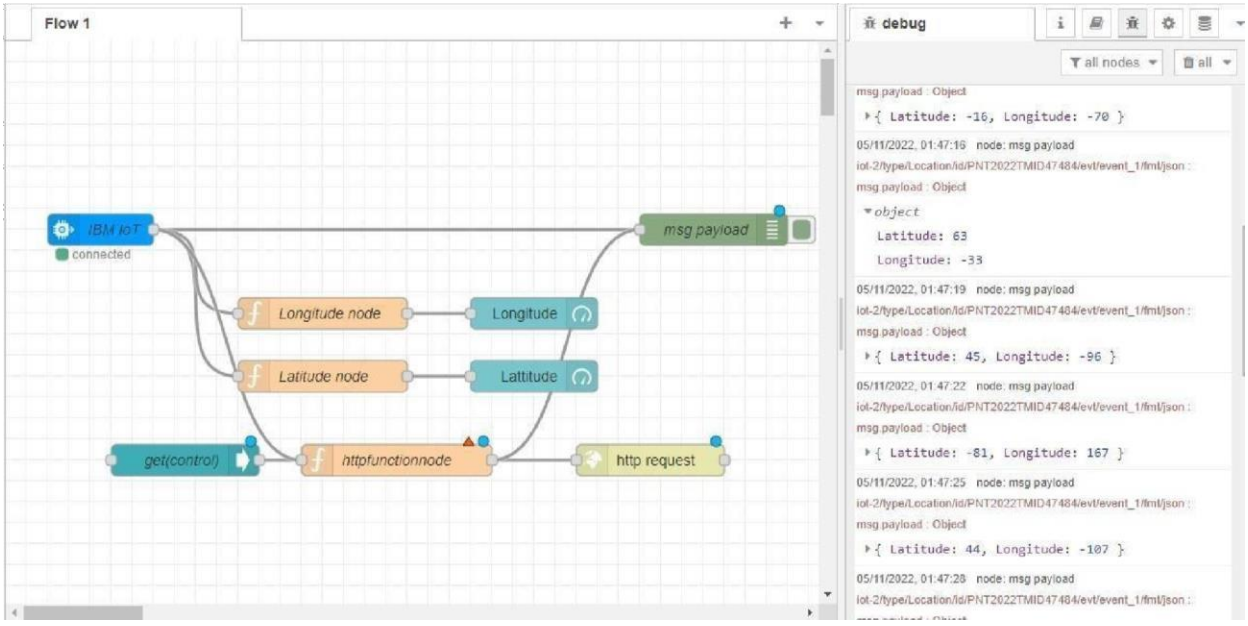
Date	07 November 2022
Team ID	PNT2022TMID31252
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification
Maximum Marks	20 marks

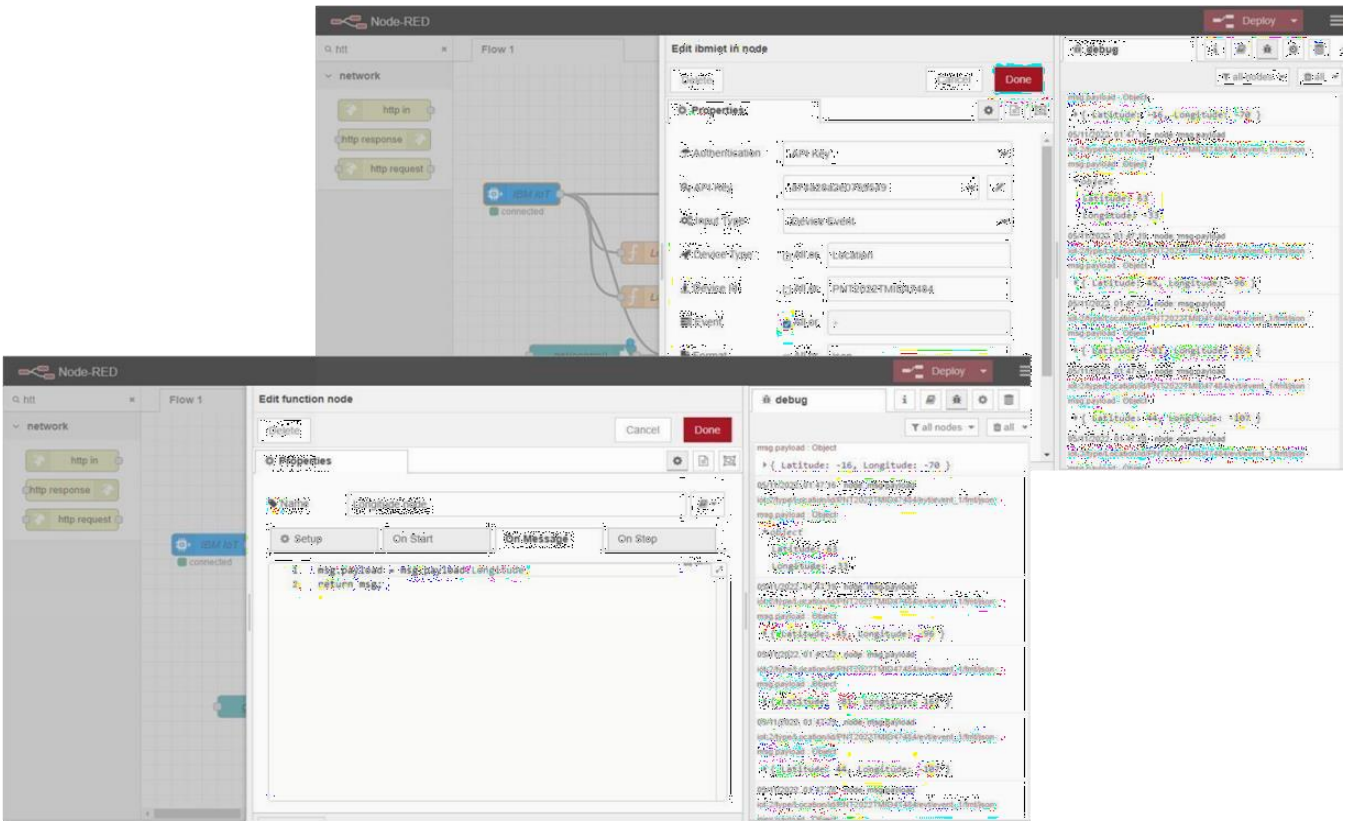
Sprint-2	US-1	Configuration the connection security and create API keys that are used in the Node-RED	10
Sprint-2	US-2	Service for accessing the IBM IoT platform. Create a Node-RED service.	10

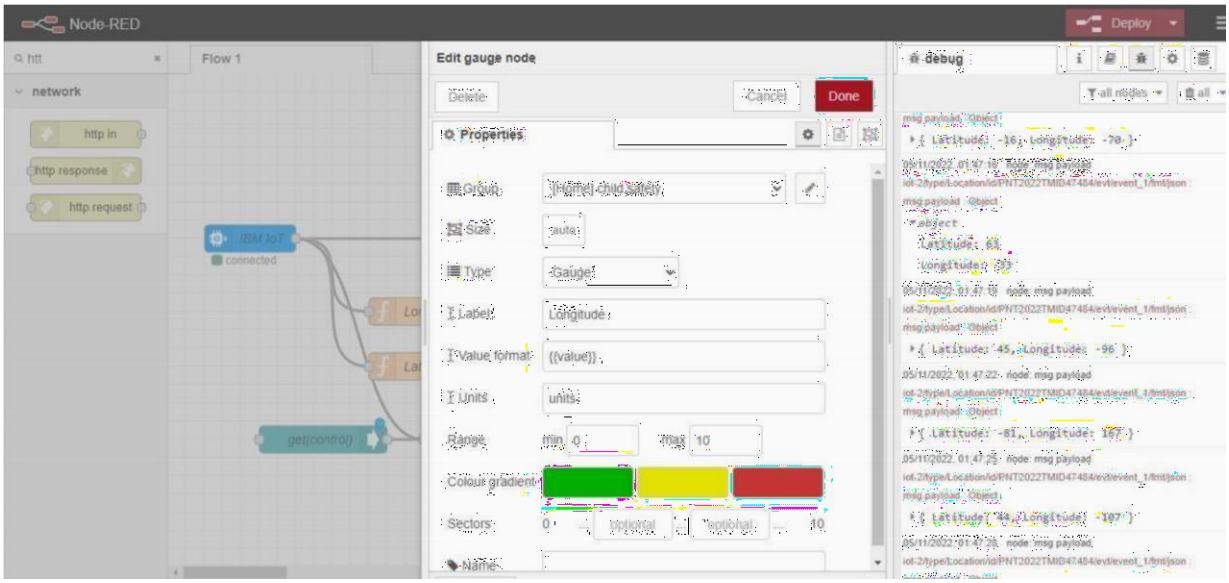


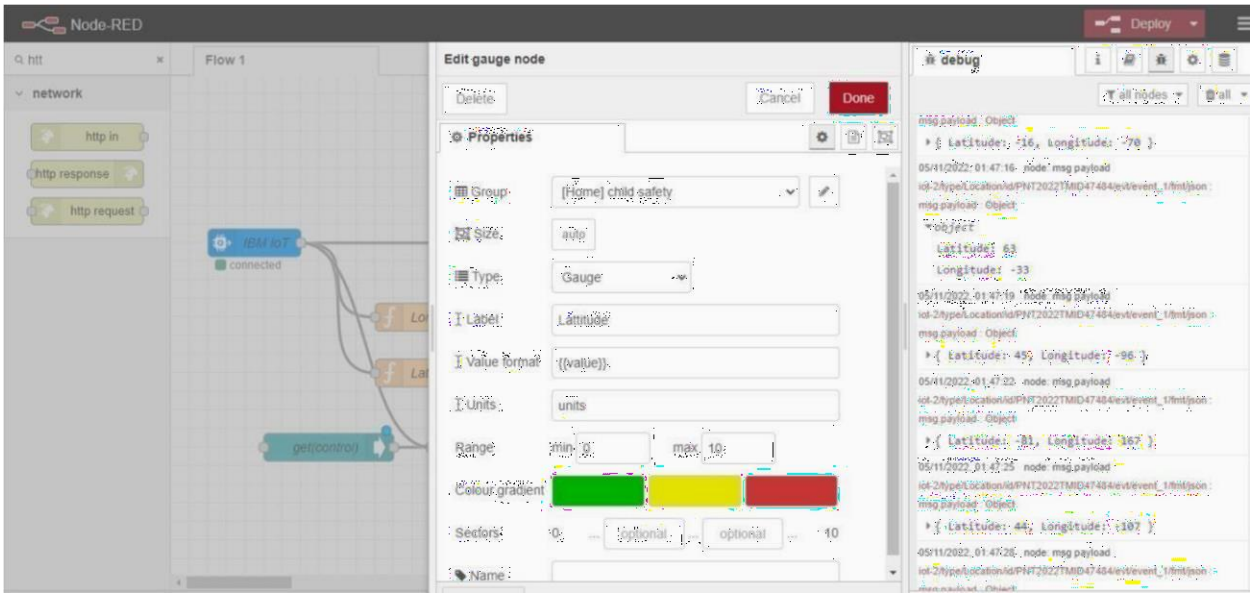

Node-RED
Deploy
filter nodes
Flow 1
debug
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
IBM IoT
connected
msg payload
all nodes
all
04/11/2022, 02:16:25 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json : msg.payload : Object
{ Latitude: -36, Longitude: 108 }
04/11/2022, 02:16:28 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json : msg.payload : Object
{ Latitude: 80, Longitude: 43 }
04/11/2022, 02:16:31 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json : msg.payload : Object
{ Latitude: -28, Longitude: 141 }
04/11/2022, 02:16:34 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json : msg.payload : Object
{ Latitude: 58, Longitude: -58 }
04/11/2022, 02:16:37 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json : msg.payload : Object
{ Latitude: -7, Longitude: 124 }
04/11/2022, 02:16:40 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json : msg.payload : Object
{ Latitude: -39, Longitude: -122 }
04/11/2022, 02:16:43 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json : msg.payload : Object
{ Latitude: -48, Longitude: 75 }

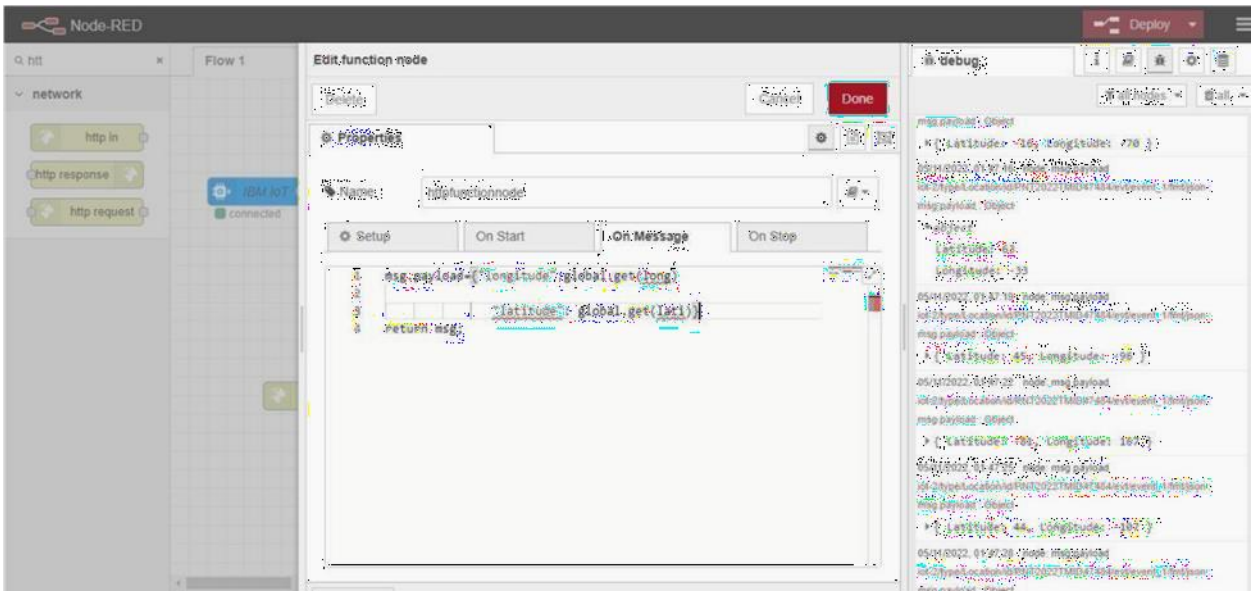

Node-RED
Service Details - IBM Cloud
IBM Watson IoT Platform
Untitled document - Google
Node-RED Dashboard
localhost:1880/ui/#!/0?socketid=0drt92BC9eTRWt9MAAAD
Home
child safety
Lattitude
3
Longitude
0
Type here to search
9:05 AM
11/4/2022

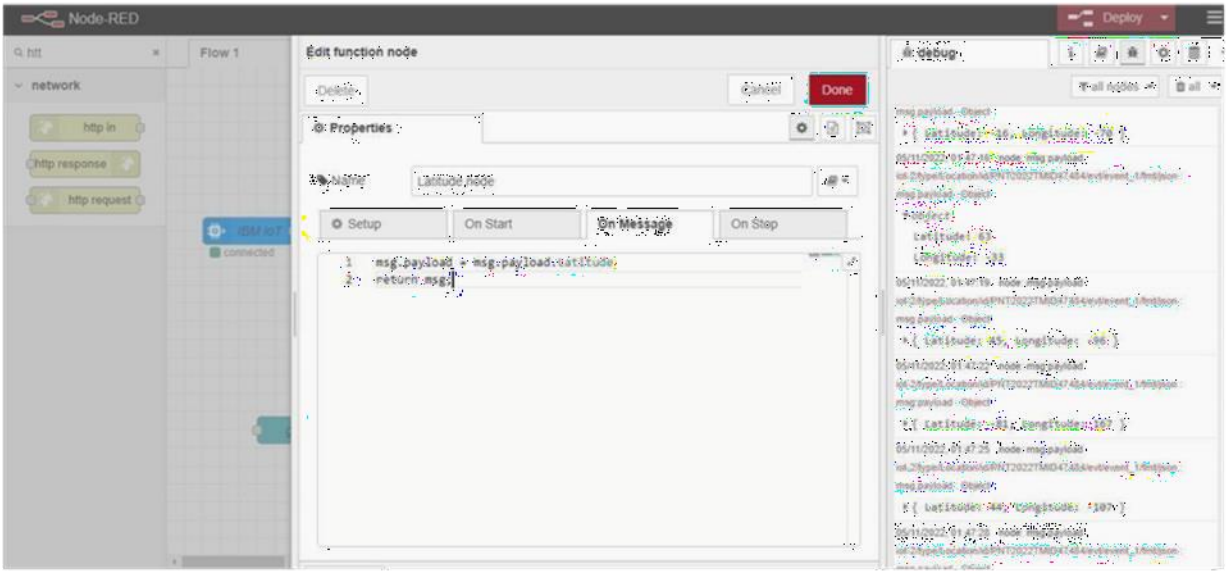

Flow 1
IBM IoT
connected
msg payload
Longitude node
Longitude
Latitude node
Lattitude
get(control)
httpfunctionnode
http request
debug
all nodes
all
msg.payload : Object
{ Latitude: -16, Longitude: -70 }
05/11/2022, 01:47:16 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json : msg.payload : Object
object
Latitude: 63
Longitude: -33
05/11/2022, 01:47:19 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json : msg.payload : Object
{ Latitude: 45, Longitude: -96 }
05/11/2022, 01:47:22 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json : msg.payload : Object
{ Latitude: -81, Longitude: 167 }
05/11/2022, 01:47:25 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json : msg.payload : Object
{ Latitude: 44, Longitude: -107 }
05/11/2022, 01:47:28 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :

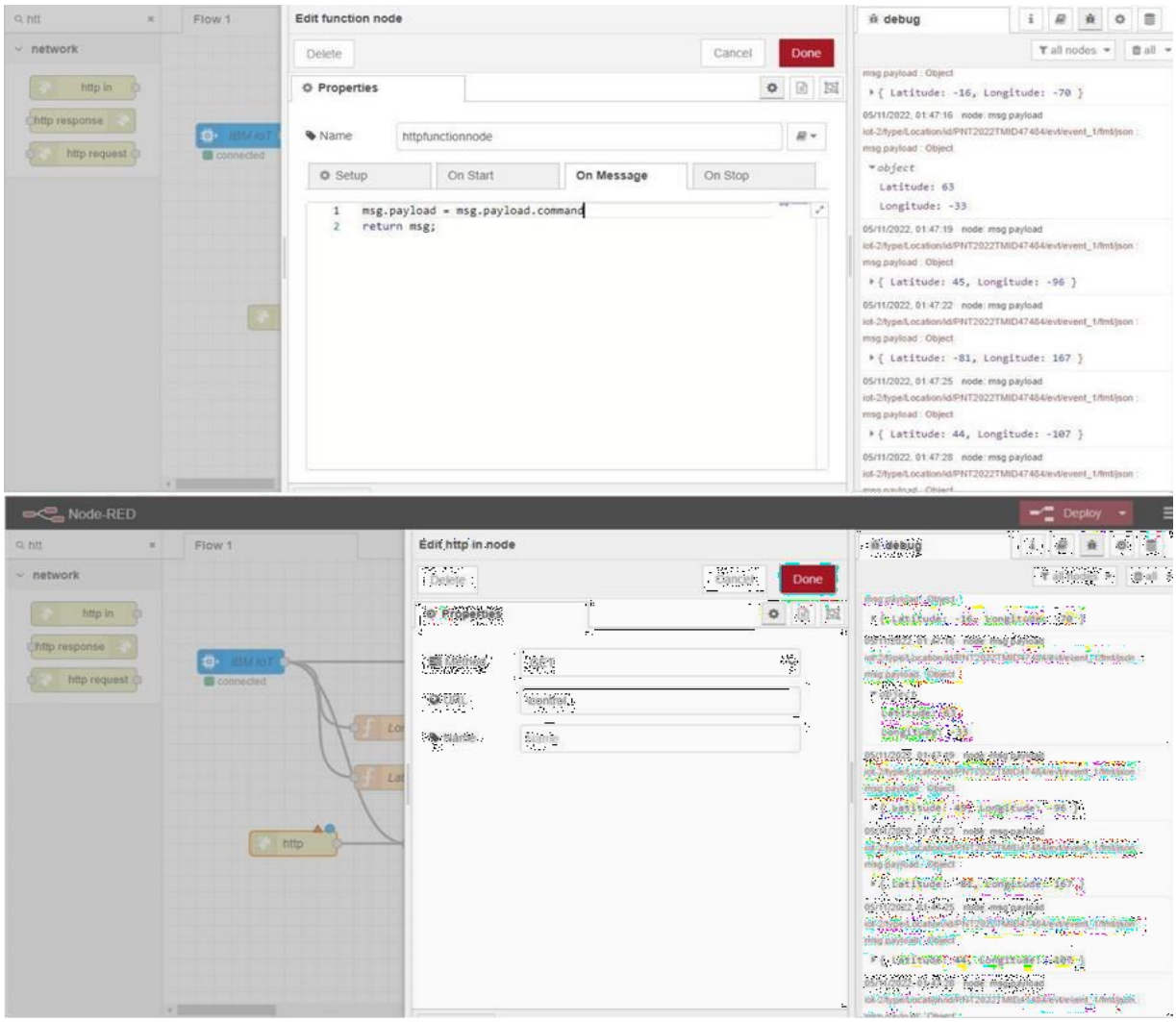

Node-RED
Deploy
Flow 1
network
http in
http response
http request
IBM IoT
connected
Edit ibmiot in node
Done
Properties
Edit function node
Cancel
Done
Setup
On Start
On Message
On Stop
debug
all nodes
msg.payload : Object
{ Latitude: -16, Longitude: -70 }


Node-RED
Deploy
Flow 1
network
http in
http response
http request
IBM IoT
connected
get(control)
Edit gauge node
Delete
Cancel
Done
Properties
Group
[Home] child safety
Size
auto
Type
Gauge
Label
Longitude
Value format
{{value}}
Units
units
Range
min 0
max 10
Colour gradient
Sectors
0
10
Name
debug
all nodes
all
{ Latitude: -16, Longitude: -70 }
{ Latitude: 45, Longitude: -96 }
{ Latitude: -81, Longitude: 107 }
{ Latitude: 44, Longitude: 107 }


Node-RED
Deploy
Flow 1
network
http in
http response
http request
IBM IoT
connected
get(control)
Edit gauge node
Delete
Cancel
Done
Properties
Group
[Home] child safety
Size
auto
Type
Gauge
Label
Latitude
Value format
{{value}}
Units
units
Range
min 0
max 10
Colour gradient
Sectors
0
10
Name
debug
all nodes
all
{ Latitude: -16, Longitude: -70 }
{ Latitude: 45, Longitude: -96 }
{ Latitude: -81, Longitude: 107 }
{ Latitude: 44, Longitude: 107 }


Node-RED
Deploy
Flow 1
network
http in
http response
http request
Edit function node
Delete
Cancel
Done
Properties
Setup
On Start
On Message
On Stop
msg.payload={"longitude":global.get(long)
latitude":global.get(lat)}
return msg;
debug


Node-RED
Deploy
Flow 1
network
http in
http response
http request
Edit function node
Delete
Cancel
Done
Properties
Setup
On Start
On Message
On Stop
msg.payload = msg.payload.latitude;
return msg;
debug


Edit function node
Delete
Cancel
Done
Properties
Name
httpfunctionnode
Setup
On Start
On Message
On Stop
msg.payload = msg.payload.command
return msg;
debug
Flow 1
network
http in
http response
http request
IBM IoT
connected
Node-RED
Deploy
Edit http in node
http