

# EVIDENCIAS PRACTICA WEBSERVICE

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## Actividad 1:

Pegar aquí los pantallazos de los resultados que evidencien la recepción de mensajes en el nodo **debug** en node red hacerlo con una página diferente a la de la guía:

Usando el link: <https://www.google.com>

The screenshot shows the Node-RED web interface in a browser. The flow consists of three nodes: a 'timestamp' node, an 'http request' node, and a 'debug 1' node. The 'debug 1' node is highlighted. The debug console on the right shows the following message:

```
10/11/2024, 9:08:29 node: debug 1
msg.payload: string[10100]

<!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="es-419"><head><meta
content="text/html; charset=UTF-8" http-equiv="Content-Type"><meta
content="/images/branding/google/1x/google_standard_color_128dp.png" itemprop="image">
<title>Google</title><script nonce="oFHvAD30bUieFV4ceedkg">(function(){var _g=
(KEI: '33s82_yt6b6gtQiesDua8', kEXPI: '0,793108,2907138,696,442,496886,41775,2872,2891,8348,417448,8155,2
3350,22436,9779,12415,50243,76288,15816,1804,14360,8,20980,11814,1632,29279,14181,7597,5219115,384,179,5
99196,2841364,2,363,1,4,1,13,1,6,10,6,1,6,1,45,63,7439047,20539938,16673,25199209,12799,11730,88751,226
23,15164,8181,5946,4546,38938,21674,6750,22594,1285,9139,4599,328,4459,1766,23407,6,4577,5633,687,7852,2
4,21270,709,1341,11792,1916,48,8174,6089,1343,12590,5221,12565,797,16870,10669,13386,1802,933,42,3,2,816
4,4913,437,41,2625,9256,1758,1,7470,639,1,30,380,1,1068,45,1213,1756,395,46,1,5249,3613,7544,692,893,261
,4652,356,758,458,306,94,1183,266,895,3,7,168...
```

Ahora, usando el link: <https://lastminuteengineers.com/esp32-wroom-32-pinout-reference/>

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content="/images/branding/google/1x/google_standard_color_128dp.png" itemprop="image">
<title>Google</title><script nonce="oFHvAD30bUieFV4ceedkg">(function(){var _g=
(KEI: '33s82_yt6b6gtQiesDua8', kEXPI: '0,793108,2907138,696,442,496886,41775,2872,2891,8348,417448,8155,2
3350,22436,9779,12415,50243,76288,15816,1804,14360,8,20980,11814,1632,29279,14181,7597,5219115,384,179,5
99196,2841364,2,363,1,4,1,13,1,6,10,6,1,6,1,45,63,7439047,20539938,16673,25199209,12799,11730,88751,226
23,15164,8181,5946,4546,38938,21674,6750,22594,1285,9139,4599,328,4459,1766,23407,6,4577,5633,687,7852,2
4,21270,709,1341,11792,1916,48,8174,6089,1343,12590,5221,12565,797,16870,10669,13386,1802,933,42,3,2,816
4,4913,437,41,2625,9256,1758,1,7470,639,1,30,380,1,1068,45,1213,1756,395,46,1,5249,3613,7544,692,893,261
,4652,356,758,458,306,94,1183,266,895,3,7,168...
```

## Actividad 2:

Pegar aquí el pantallazo del proceso para obtener datos meteorológicos de una estación diferente:

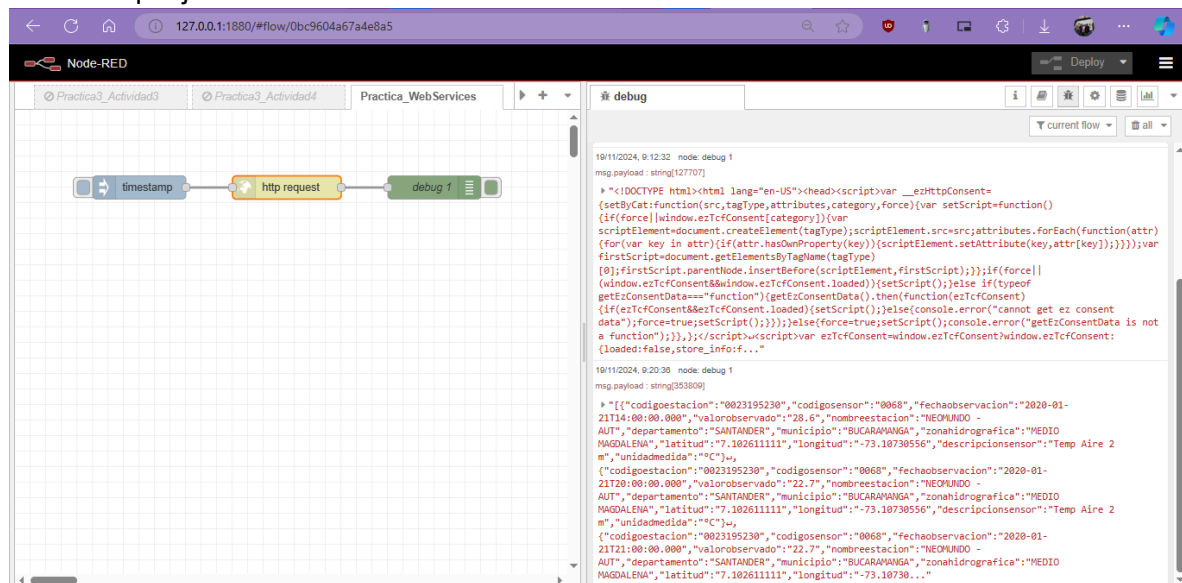
Estación seleccionada:

<https://www.datos.gov.co/resource/sbwg-7ju4.json?codigoestacion=0023195230>



CodigoEsta...	CodigoSen...	FechaObse...	ValorObse...	NombreEst...	Departame...	Municipio	ZonaHidrog...	Latitud	Longitud	Descripcio...	UnidadMe...
0023195230	0068	2020 Jan 21 02:1	28,6	NEOMUNDO - AL	SANTANDER	BUCARAMANGA	MEDIO MAGDAL	7,102611111	-73,10730556	Temp Aire 2 m	°C
0023195230	0068	2020 Jan 21 08:1	22,7	NEOMUNDO - AL	SANTANDER	BUCARAMANGA	MEDIO MAGDAL	7,102611111	-73,10730556	Temp Aire 2 m	°C
0023195230	0068	2020 Jan 21 09:1	22,7	NEOMUNDO - AL	SANTANDER	BUCARAMANGA	MEDIO MAGDAL	7,102611111	-73,10730556	Temp Aire 2 m	°C

Sin el bloque json:



```
19/11/2024, 9:12:32 node: debug 1
msg.payload: string[127707]

{
  "<DOCTYPE html><html lang='en-US'><head><script>var __ezTcfConsent=(setByCat:function(src,tagType,attributes,category,force){var setScript=function(){if(force||window.ezTcfConsent[category]){var scriptElement=document.createElement(tagType);scriptElement.src=src;attributes.forEach(function(attr){for(var key in attr){if(attr.hasOwnProperty(key)){scriptElement.setAttribute(key,attr[key])}});var firstScript=document.getElementsByTagName(tagType)[0];firstScript.parentNode.insertBefore(scriptElement,firstScript)});if(force||window.ezTcfConsent&&window.ezTcfConsent.loaded){setScript();}else if(typeof getEzConsentData==='function'){getEzConsentData().then(function(ezTcfConsent){if(ezTcfConsent&&ezTcfConsent.loaded){setScript();}else{console.error('cannot get ez consent data');force=true;setScript();});}else{force=true;setScript();console.error('getEzConsentData is not a function');});}</script><script>var ezTcfConsent=window.ezTcfConsent?window.ezTcfConsent:loaded:false,store_info:..."
}

19/11/2024, 9:20:38 node: debug 1
msg.payload: string[353809]

[{"codigoestacion":"0023195230","codigosensor":"0068","fechaobservacion":"2020-01-21T14:00:00.000","valorobservado":"28.6","nombrestacion":"NEOMUNDO - AUT","departamento":"SANTANDER","municipio":"BUCARAMANGA","zonahidrografica":"MEDIO MAGDALENA","latitud":"7.102611111","longitud":"-73.10730556","descripcionsensor":"Temp Aire 2 m","unidadmedida":"°C"},{"codigoestacion":"0023195230","codigosensor":"0068","fechaobservacion":"2020-01-21T20:00:00.000","valorobservado":"22.7","nombrestacion":"NEOMUNDO - AUT","departamento":"SANTANDER","municipio":"BUCARAMANGA","zonahidrografica":"MEDIO MAGDALENA","latitud":"7.102611111","longitud":"-73.10730556","descripcionsensor":"Temp Aire 2 m","unidadmedida":"°C"},{"codigoestacion":"0023195230","codigosensor":"0068","fechaobservacion":"2020-01-21T21:00:00.000","valorobservado":"22.7","nombrestacion":"NEOMUNDO - AUT","departamento":"SANTANDER","municipio":"BUCARAMANGA","zonahidrografica":"MEDIO MAGDALENA","latitud":"7.102611111","longitud":"-73.10730556","descripcionsensor":"Temp Aire 2 m","unidadmedida":"°C"}]
```

Con el bloque json:

The top screenshot shows a Node-RED workflow with four nodes: 'timestamp', 'http request', 'json', and 'debug 1'. The 'debug 1' node displays a large JSON array of 1000 objects in the console. The bottom screenshot shows the same workflow, but the 'debug 1' node displays a single object from the array, showing detailed metadata for a specific sensor reading.

**Workflow:**

```

graph LR
    In(( )) --> Timestamp[timestamp]
    Timestamp --> HTTP[http request]
    HTTP --> JSON[json]
    JSON --> Debug[debug 1]
  
```

**Debug Console Output (Top Screenshot):**

```

msg.payload: string[353800]
[{"codigoestacion":"0023195230","codigosensor":"0068","fechaobservacion":"2020-01-21T14:00:00.000","valorobservado":"28.6","nombrestacion":"NEOMUNDO - AUT","departamento":"SANTANDER","municipio":"BUCARAVANGA","zonahidrografia":"MEDIO MAGDALENA","latitud":"7.10261111","longitud":"-73.10730556","descripcionsensor":"Temp Aire 2 m","unidadmedida":"°C"},
{"codigoestacion":"0023195230","codigosensor":"0068","fechaobservacion":"2020-01-21T20:00:00.000","valorobservado":"22.7","nombrestacion":"NEOMUNDO - AUT","departamento":"SANTANDER","municipio":"BUCARAVANGA","zonahidrografia":"MEDIO MAGDALENA","latitud":"7.10261111","longitud":"-73.10730556","descripcionsensor":"Temp Aire 2 m","unidadmedida":"°C"},
{"codigoestacion":"0023195230","codigosensor":"0068","fechaobservacion":"2020-01-21T21:00:00.000","valorobservado":"22.7","nombrestacion":"NEOMUNDO - AUT","departamento":"SANTANDER","municipio":"BUCARAVANGA","zonahidrografia":"MEDIO MAGDALENA","latitud":"7.10261111","longitud":"-73.10730556"}]
10/11/2024, 9:21:50 node: debug 1
msg.payload: array[1000]
array[1000]
[0 .. 9]
[10 .. 19]
[20 .. 29]
[30 .. 39]
[40 .. 49]
[50 .. 59]
[60 .. 69]
[70 .. 79]
[80 .. 89]
[90 .. 99]
[100 .. 109]
[110 .. 119]
[120 .. 129]
[130 .. 139]
  
```

**Debug Console Output (Bottom Screenshot):**

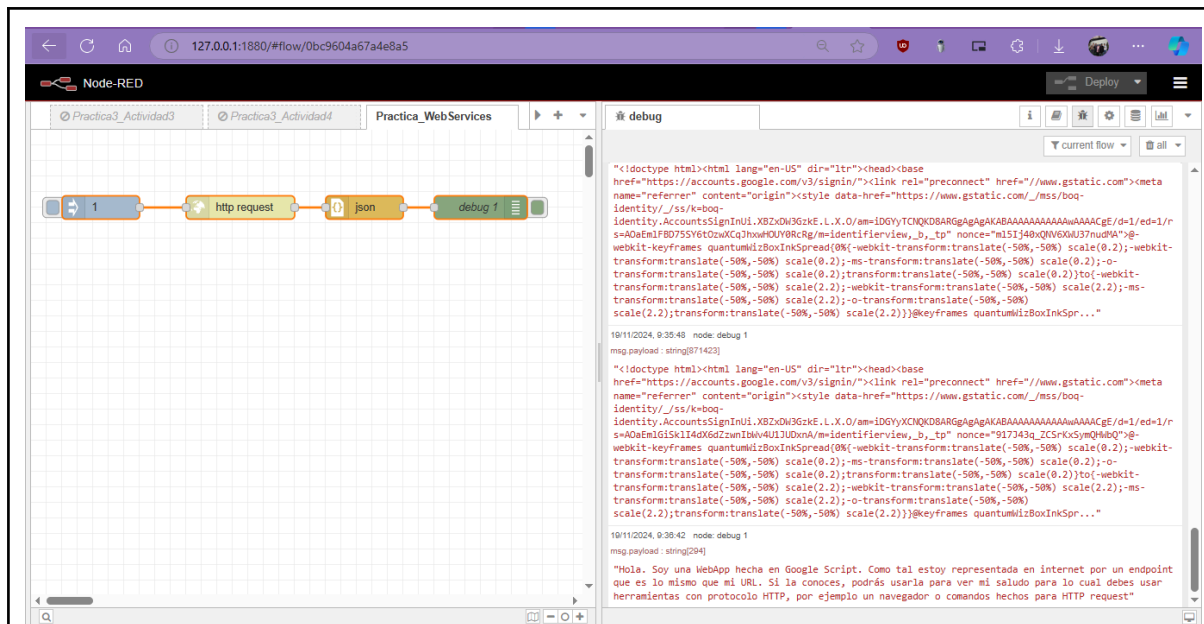
```

2121:00:00.000 , valor observado : 22.7 , nombrestacion : NEOMUNDO - AUT , departamento : SANTANDER , municipio : BUCARAVANGA , zonahidrografia : MEDIO MAGDALENA , latitud : 7.10261111 , longitud : -73.10730556
10/11/2024, 9:21:50 node: debug 1
msg.payload: array[1000]
array[1000]
0: object
  codigoestacion: "0023195230"
  codigosensor: "0068"
  fechaobservacion: "2020-01-21T14:00:00.000"
  valorobservado: "28.6"
  nombrestacion: "NEOMUNDO - AUT"
  departamento: "SANTANDER"
  municipio: "BUCARAVANGA"
  zonahidrografia: "MEDIO MAGDALENA"
  latitud: "7.10261111"
  longitud: "-73.10730556"
  descripcionsensor: "Temp Aire 2 m"
  unidadmedida: "°C"
1: object
2: object
3: object
4: object
5: object
6: object
  
```

### Actividad 3:

Enviar un mensaje diferente al del WebService de la guía:

Primero se evidencia el mensaje propuesto desde Node-RED, gracias a la siguiente implementación hecha en Google Apps Script:  
[https://script.google.com/macros/s/AKfycbwi33wotzxMNq-jZ9c-XCI7u0aTKM0JyiPVh\\_p0aOluXQg7U6C7pi7dehOeTTGQPY\\_6pg/exec](https://script.google.com/macros/s/AKfycbwi33wotzxMNq-jZ9c-XCI7u0aTKM0JyiPVh_p0aOluXQg7U6C7pi7dehOeTTGQPY_6pg/exec)



Con un mensaje diferente queda de la siguiente forma:  
<https://script.google.com/macros/s/AKfycbxF0547bVSVQPTR5S18MFZORo4fTQtzLBT6yB47fjCnWFtjrh2xWbWGESEXW80J3FKOIA/exec>

