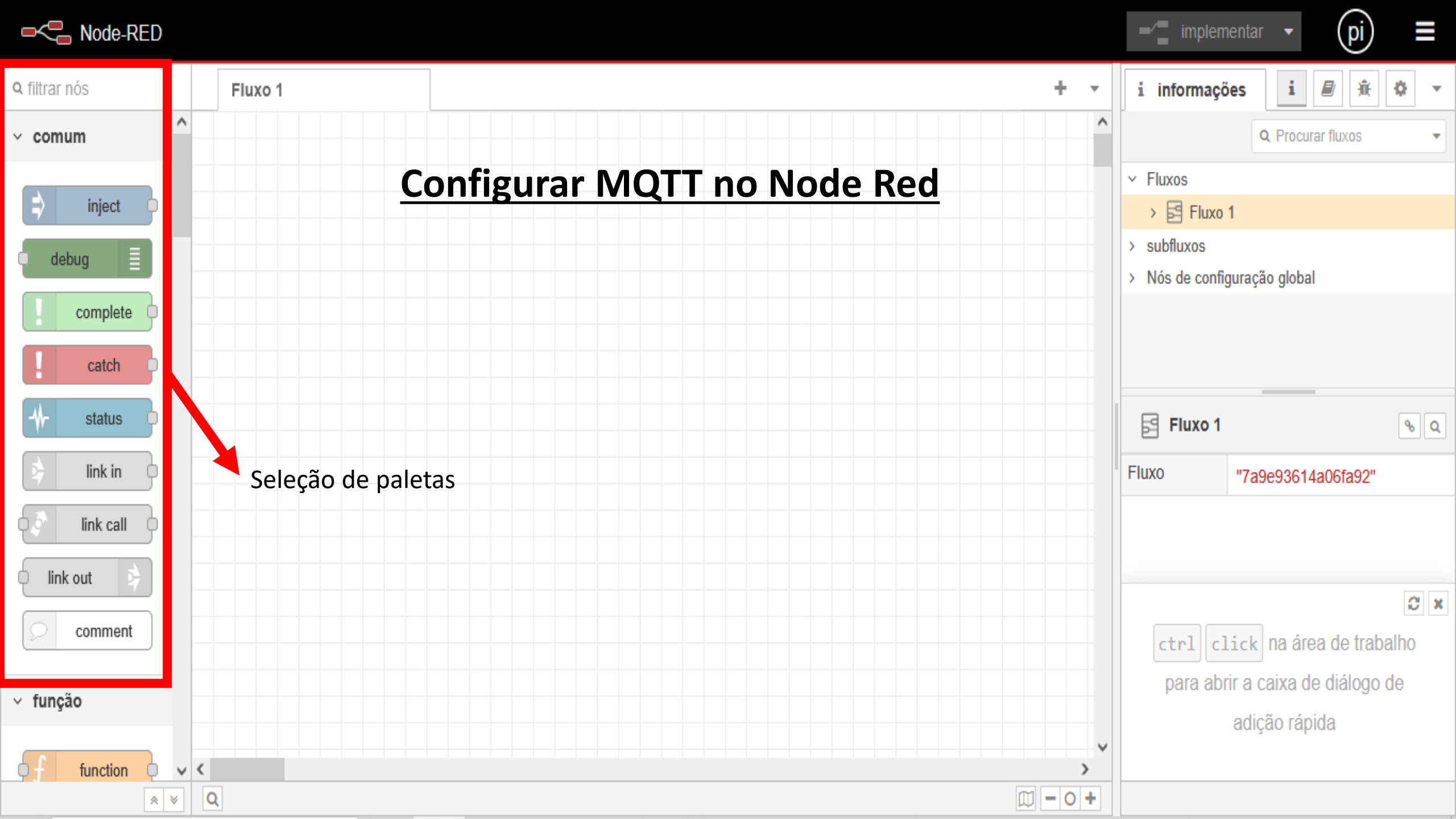
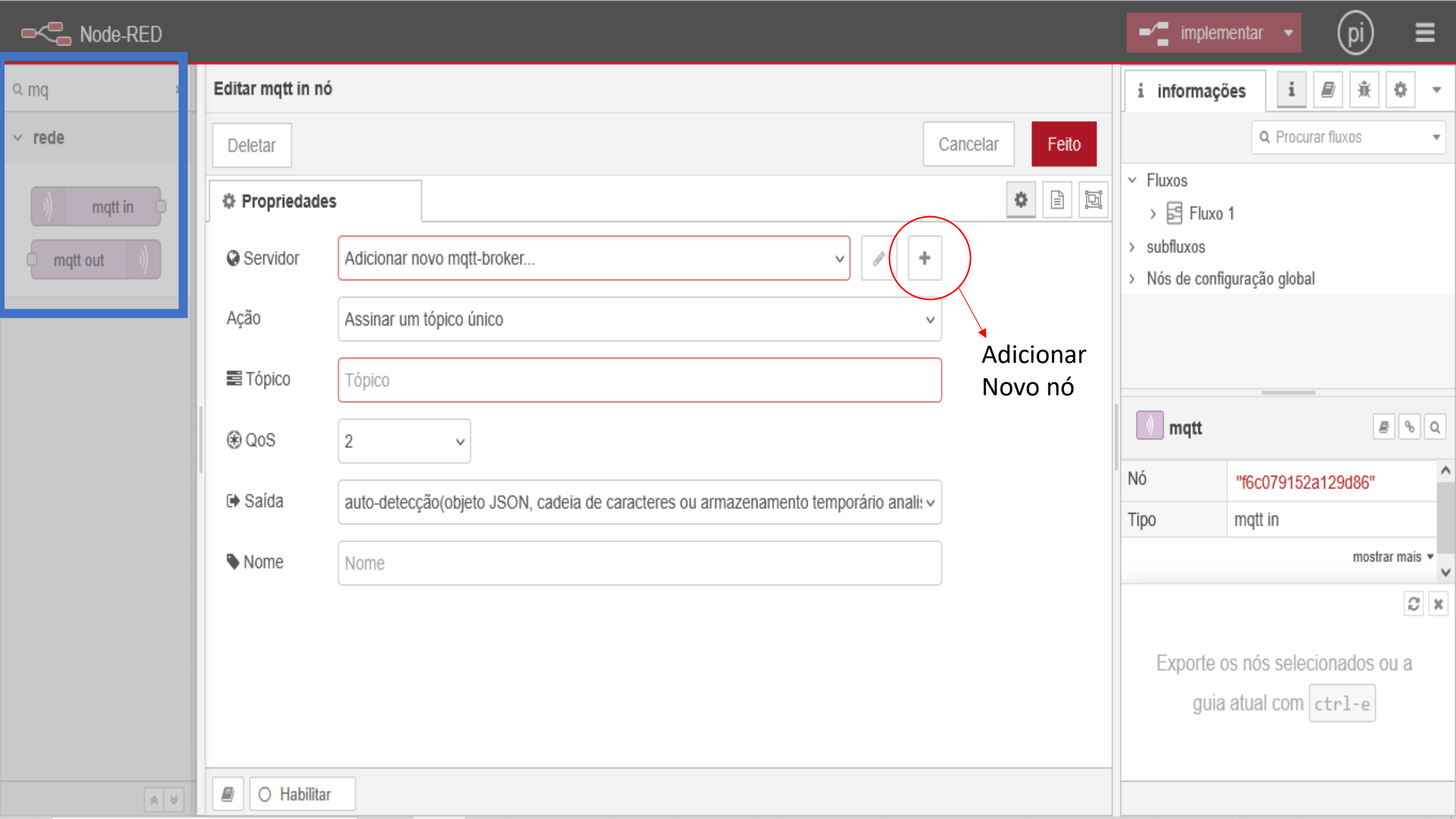
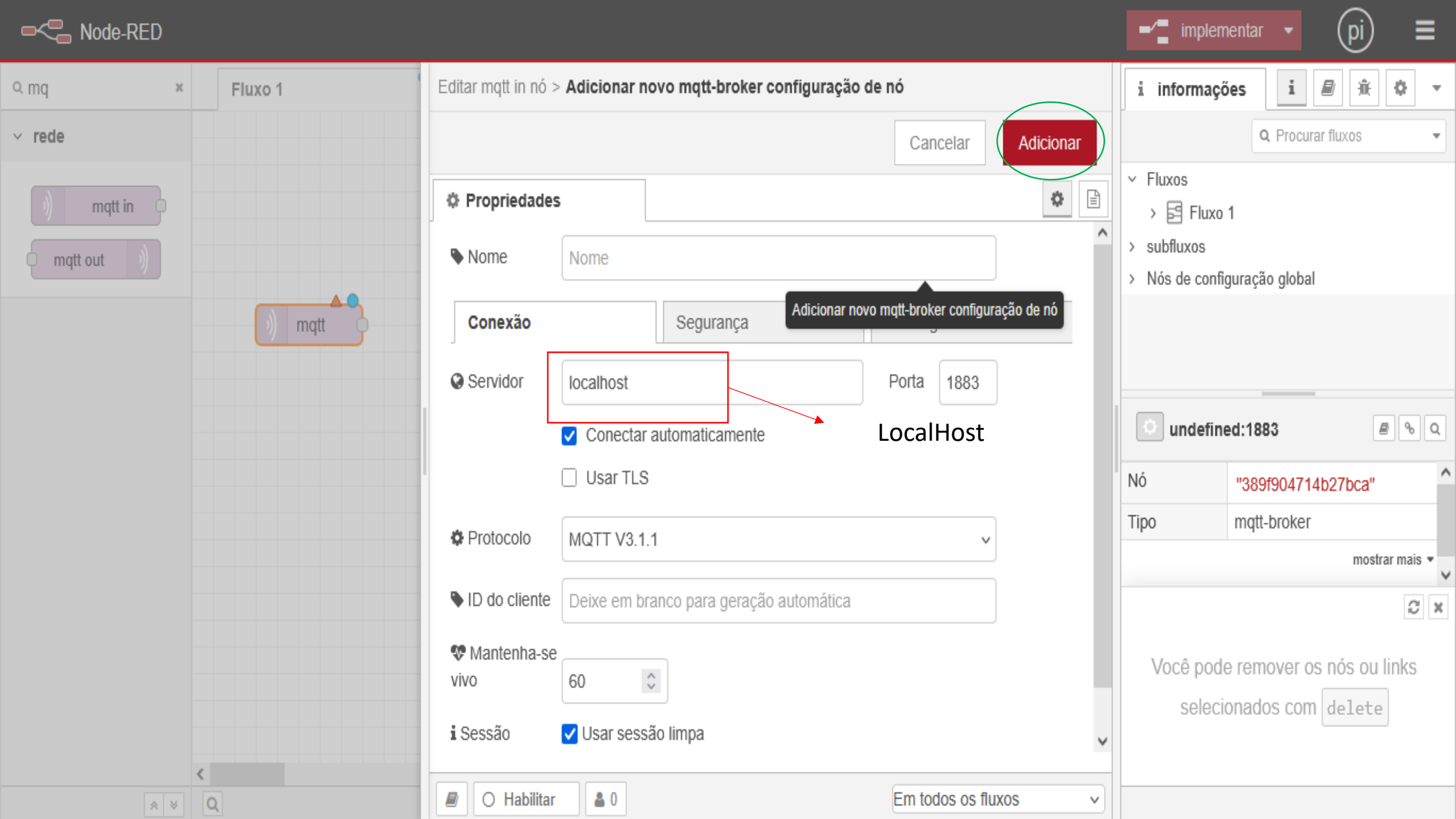
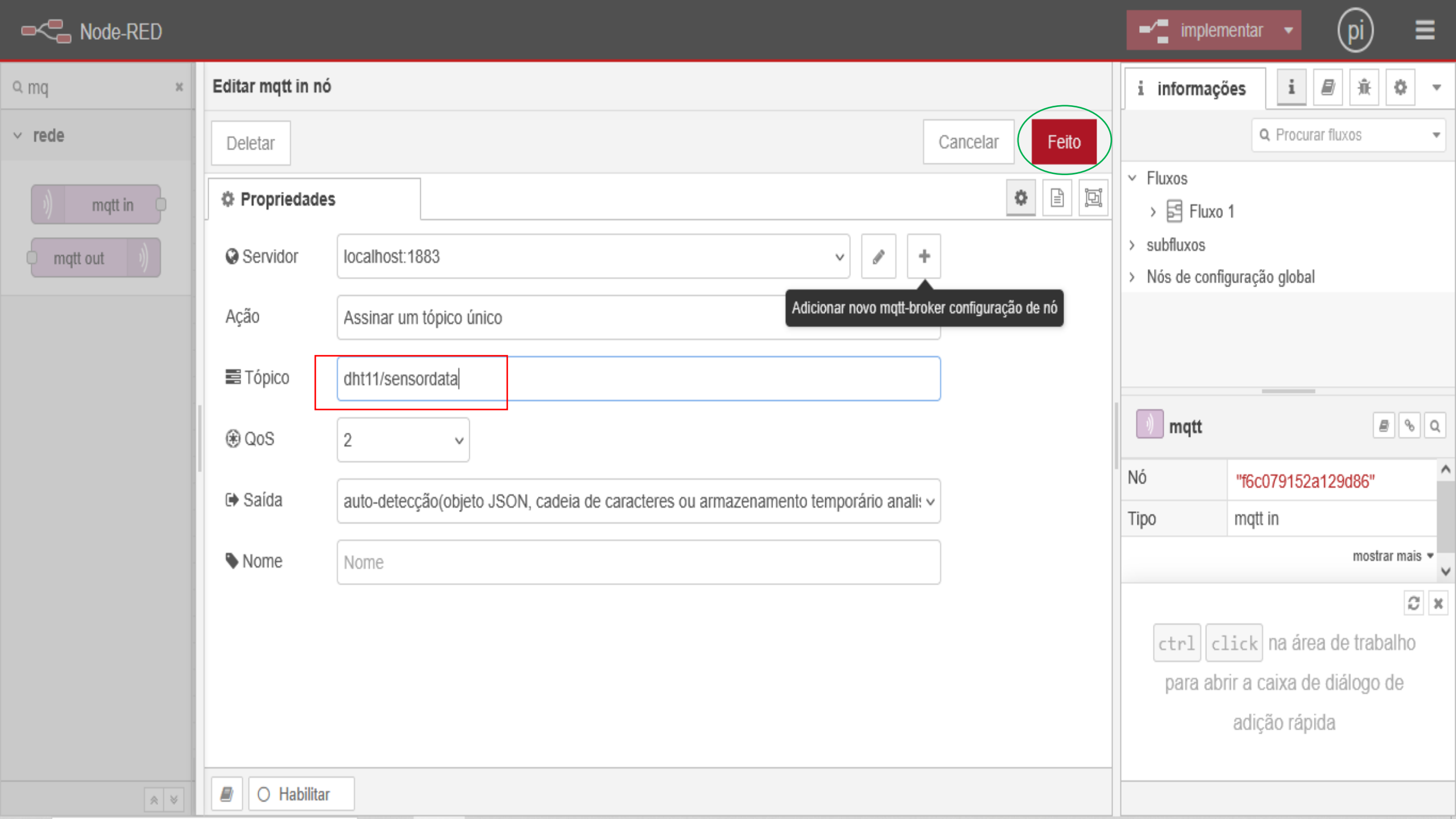
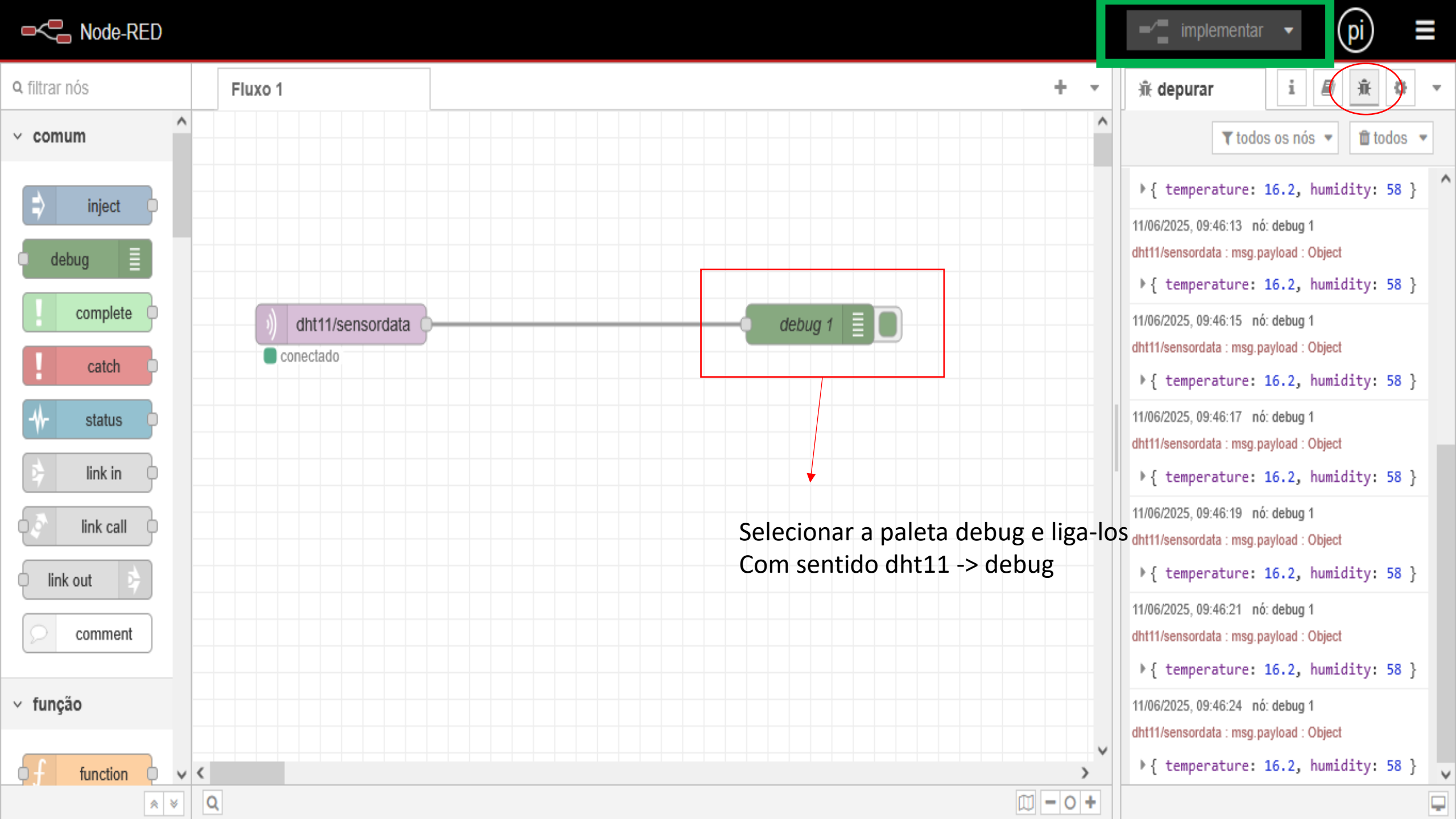
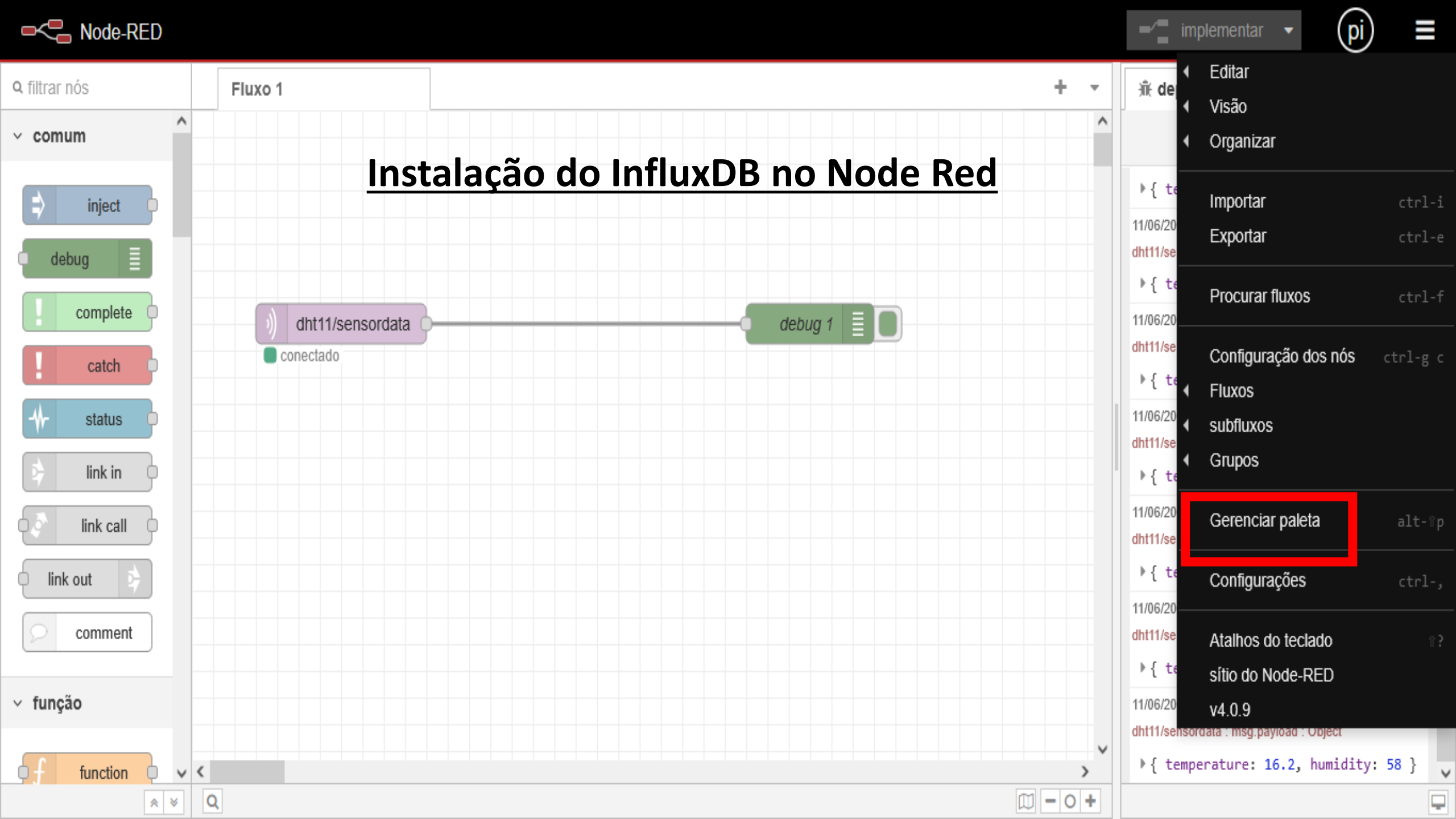

Node-RED
implementar
filtrar nós
comum
inject
debug
complete
catch
status
link in
link call
link out
comment
função
function
Fluxo 1
Configurar MQTT no Node Red
Seleção de paletas
informações
Procurar fluxos
Fluxos
Fluxo 1
subfluxos
Nós de configuração global
Fluxo 1
Fluxo
"7a9e93614a06fa92"
ctrl
click
na área de trabalho
para abrir a caixa de diálogo de
adição rápida

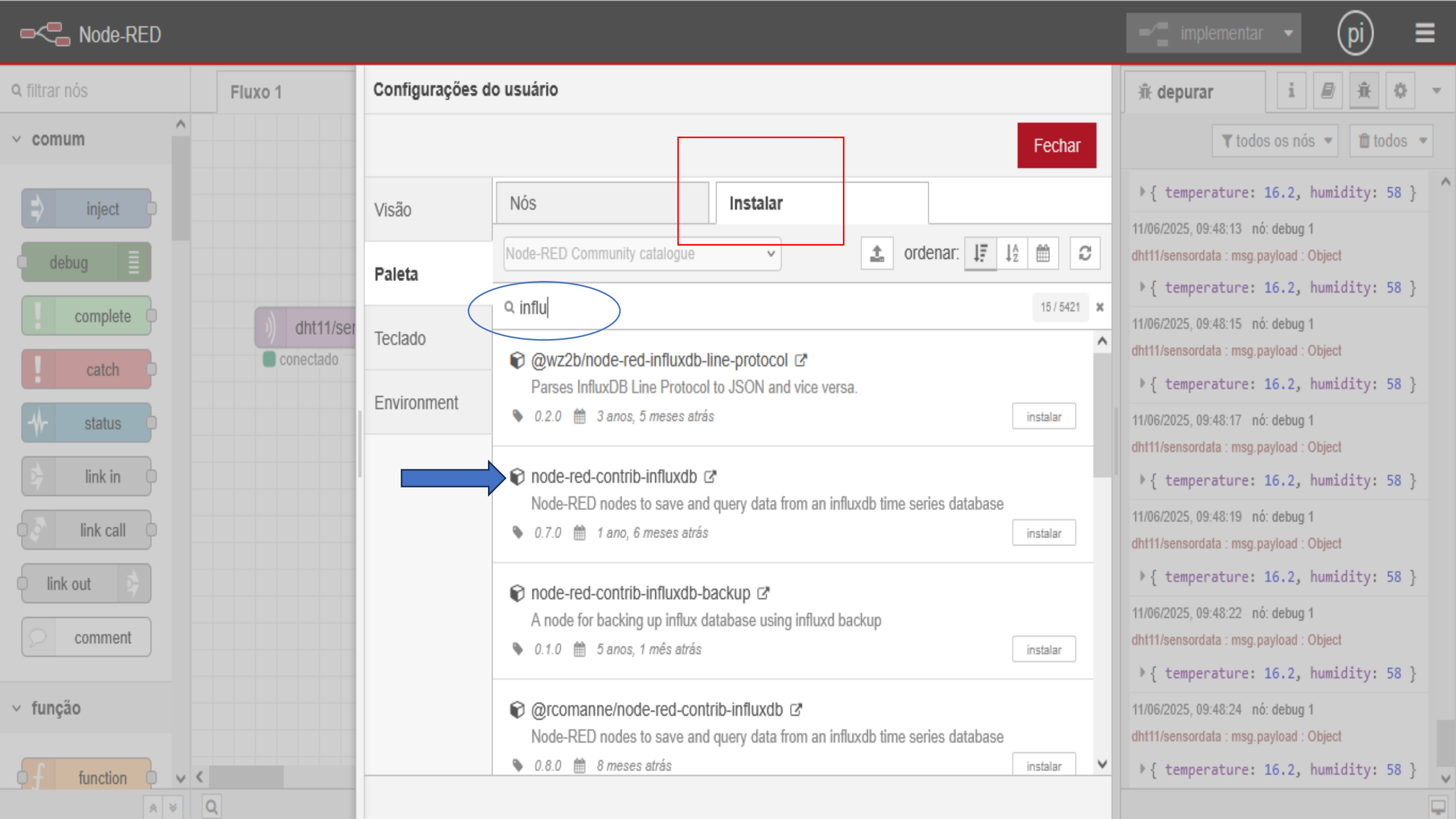

Node-RED
implementar
mq
rede
mqtt in
mqtt out
Editar mqtt in nó
Deletar
Cancelar
Feito
Propriedades
Servidor
Adicionar novo mqtt-broker...
Ação
Assinar um tópico único
Tópico
Tópico
QoS
2
Saída
auto-detecção(objeto JSON, cadeia de caracteres ou armazenamento temporário anali
Nome
Nome
Habilitar
Adicionar
Novo nó
informações
Procurar fluxos
Fluxos
Fluxo 1
subfluxos
Nós de configuração global
mqtt
Nó
"f6c079152a129d86"
Tipo
mqtt in
mostrar mais
Exporte os nós selecionados ou a
guia atual com
ctrl-e

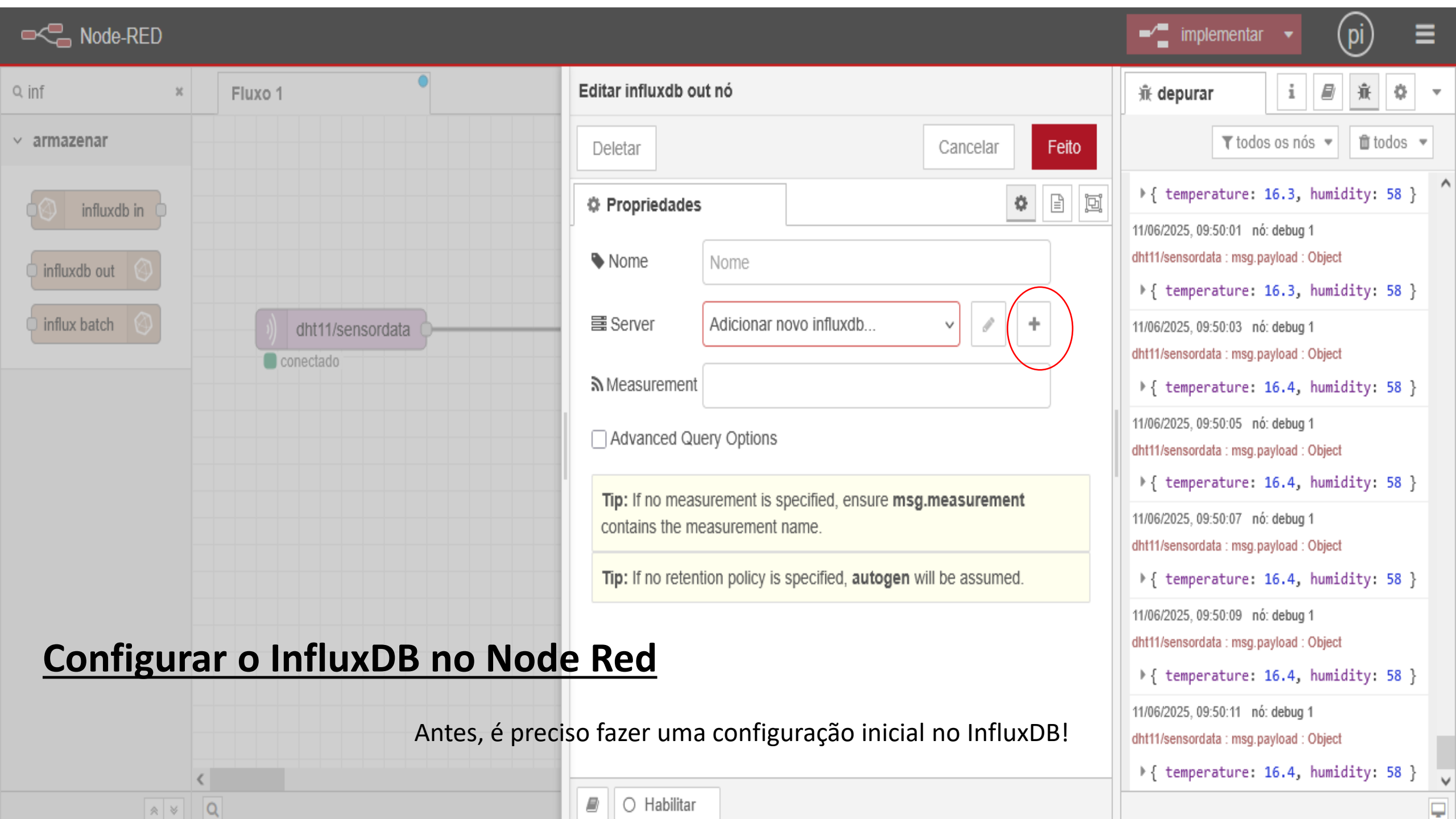

Node-RED
implementar
mq
Fluxo 1
rede
mqtt in
mqtt out
mqtt
Editar mqtt in nó > Adicionar novo mqtt-broker configuração de nó
Cancelar
Adicionar
Propriedades
Nome
Nome
Adicionar novo mqtt-broker configuração de nó
Conexão
Segurança
Servidor
localhost
Porta
1883
Conectar automaticamente
Usar TLS
LocalHost
Protocolo
MQTT V3.1.1
ID do cliente
Deixe em branco para geração automática
Mantenha-se vivo
60
Sessão
Usar sessão limpa
Habilitar
0
Em todos os fluxos
informações
Procurar fluxos
Fluxos
Fluxo 1
subfluxos
Nós de configuração global
undefined:1883
Nó
"389f904714b27bca"
Tipo
mqtt-broker
mostrar mais
Você pode remover os nós ou links selecionados com delete


Node-RED
implementar
mq
rede
mqtt in
mqtt out
Editar mqtt in nó
Deletar
Cancelar
Feito
Propriedades
Servidor
localhost:1883
Adicionar novo mqtt-broker configuração de nó
Ação
Assinar um tópico único
Tópico
dht11/sensordata
QoS
2
Saída
auto-detecção(objeto JSON, cadeia de caracteres ou armazenamento temporário anali
Nome
Nome
Habilitar
informações
Procurar fluxos
Fluxos
Fluxo 1
subfluxos
Nós de configuração global
mqtt
Nó
"f6c079152a129d86"
Tipo
mqtt in
mostrar mais
ctrl
click
na área de trabalho
para abrir a caixa de diálogo de
adição rápida


Node-RED
implementar
filtrar nós
Fluxo 1
depurar
comum
inject
debug
complete
catch
status
link in
link call
link out
comment
função
function
dht11/sensordata
conectado
debug 1
todos os nós
todos
{ temperature: 16.2, humidity: 58 }
11/06/2025, 09:46:13 nó: debug 1
dht11/sensordata : msg.payload : Object
{ temperature: 16.2, humidity: 58 }
11/06/2025, 09:46:15 nó: debug 1
dht11/sensordata : msg.payload : Object
{ temperature: 16.2, humidity: 58 }
11/06/2025, 09:46:17 nó: debug 1
dht11/sensordata : msg.payload : Object
{ temperature: 16.2, humidity: 58 }
11/06/2025, 09:46:19 nó: debug 1
dht11/sensordata : msg.payload : Object
{ temperature: 16.2, humidity: 58 }
11/06/2025, 09:46:21 nó: debug 1
dht11/sensordata : msg.payload : Object
{ temperature: 16.2, humidity: 58 }
11/06/2025, 09:46:24 nó: debug 1
dht11/sensordata : msg.payload : Object
{ temperature: 16.2, humidity: 58 }
Selecionar a paleta debug e liga-los
Com sentido dht11 -> debug


Node-RED
implementar
Editar
Visão
Organizar
Importar ctrl-i
Exportar ctrl-e
Procurar fluxos ctrl-f
Configuração dos nós ctrl-g c
Fluxos
subfluxos
Grupos
Gerenciar paleta alt-⇧p
Configurações ctrl-,
Atalhos do teclado ⇧?
sítio do Node-RED
v4.0.9
filtrar nós
Fluxo 1
comum
inject
debug
complete
catch
status
link in
link call
link out
comment
função
function
Instalação do InfluxDB no Node Red
dht11/sensordata
conectado
debug 1
{ temperature: 16.2, humidity: 58 }


Node-RED
implementar
filtrar nós
Fluxo 1
comum
inject
debug
complete
catch
status
link in
link call
link out
comment
função
function
dht11/ser
conectado
Configurações do usuário
Fechar
Visão
Paleta
Teclado
Environment
Nós
Instalar
Node-RED Community catalogue
ordenar:
influ
15 / 5421
@wz2b/node-red-influxdb-line-protocol
Parses InfluxDB Line Protocol to JSON and vice versa.
0.2.0 3 anos, 5 meses atrás
instalar
node-red-contrib-influxdb
Node-RED nodes to save and query data from an influxdb time series database
0.7.0 1 ano, 6 meses atrás
instalar
node-red-contrib-influxdb-backup
A node for backing up influx database using influxd backup
0.1.0 5 anos, 1 mês atrás
instalar
@rcomanne/node-red-contrib-influxdb
Node-RED nodes to save and query data from an influxdb time series database
0.8.0 8 meses atrás
instalar
depurar
todos os nós
todos
{ temperature: 16.2, humidity: 58 }
11/06/2025, 09:48:13 nó: debug 1
dht11/sensordata : msg.payload : Object
11/06/2025, 09:48:15 nó: debug 1
11/06/2025, 09:48:17 nó: debug 1
11/06/2025, 09:48:19 nó: debug 1
11/06/2025, 09:48:22 nó: debug 1
11/06/2025, 09:48:24 nó: debug 1



Configurar o InfluxDB no Node Red

Antes, é preciso fazer uma configuração inicial no InfluxDB!

Welcome — Initial User Setup — Complete

Setup Initial User

You will be able to create additional Users, Buckets and Organizations later

Username

Lactea

Password

Confirm Password

Initial Organization Name

UFPR

Initial Bucket Name

sensordata

CONTINUE

Get Started

Sources
Buckets
Telegraf
Scrapers
API Tokens

query data using the programming language of your choice

Node.js

Go

Arduino

View more

InfluxDB CLI

Write and query data using the InfluxDB Command Line Interface. Supports CSV and Line Protocol.

Server Agent (Telegraf)

Easily collect and write data using custom stand-alone agent plugins

Search Documentation

Press CTRL + M on any page to search

USEFUL LINKS

InfluxDB University
Get Started with Flux
Explore Metrics
Build a Dashboard
Write a Task
Report a bug
Community Forum
Feature Requests

InfluxDB v2.7.11
Server: fbf5d4a
Frontend: f4b5694

Load Data

SOURCES BUCKETS TELEGRAF SCRAPERS API TOKENS

Filter Tokens...

Sort by Description (A → Z)

+ GENERATE API TOKEN

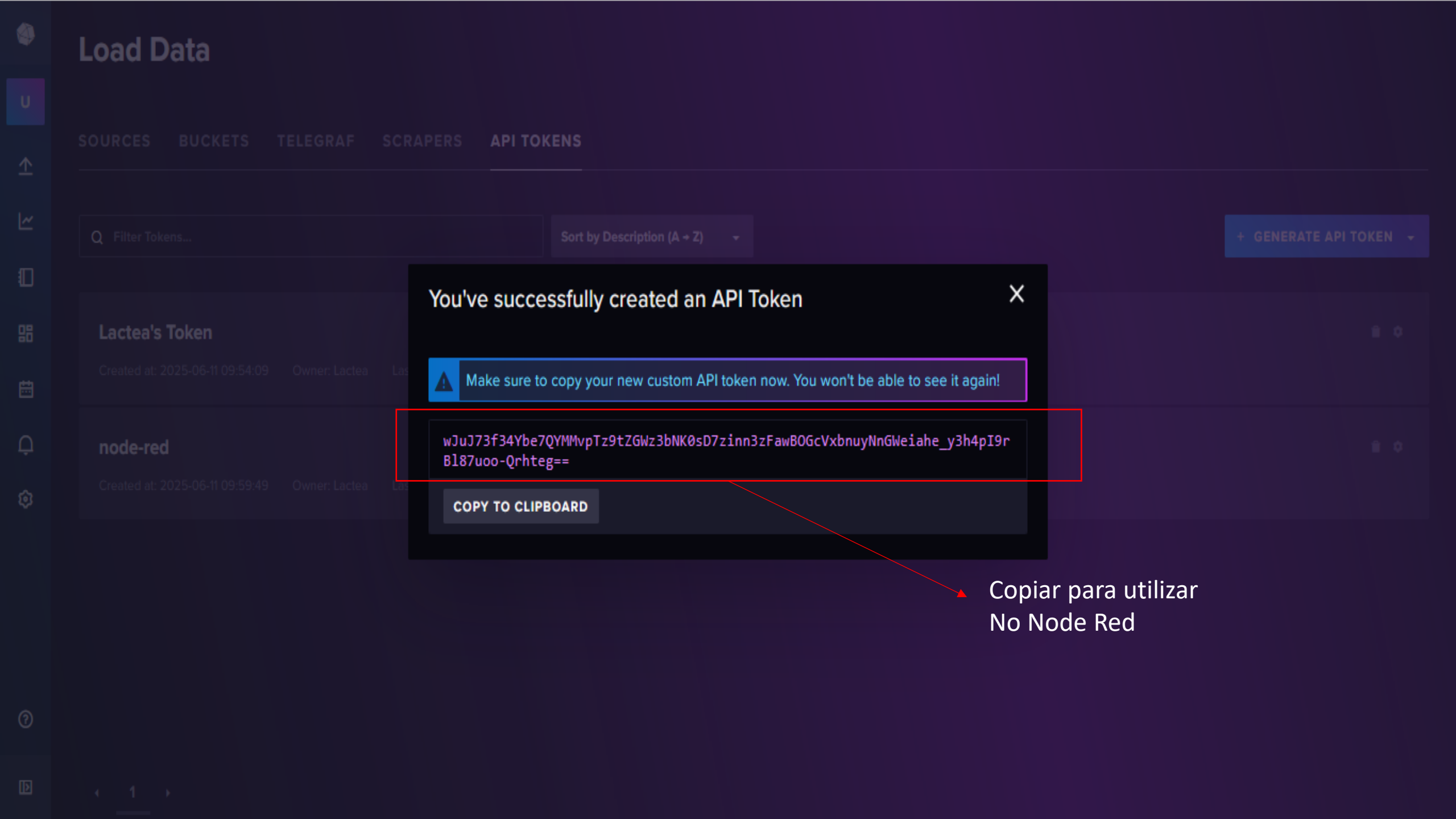
All Access API Token

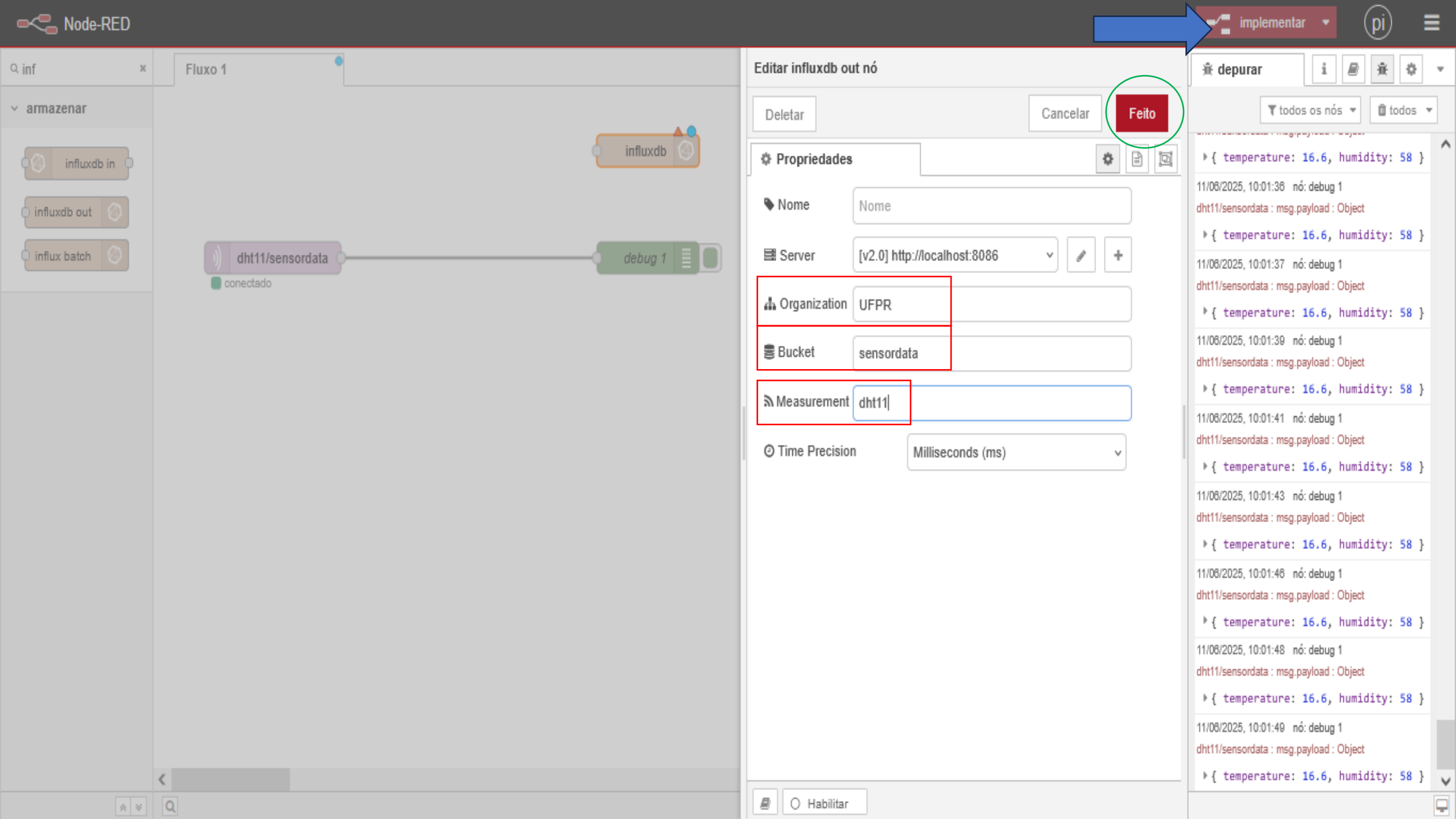
Custom API Token

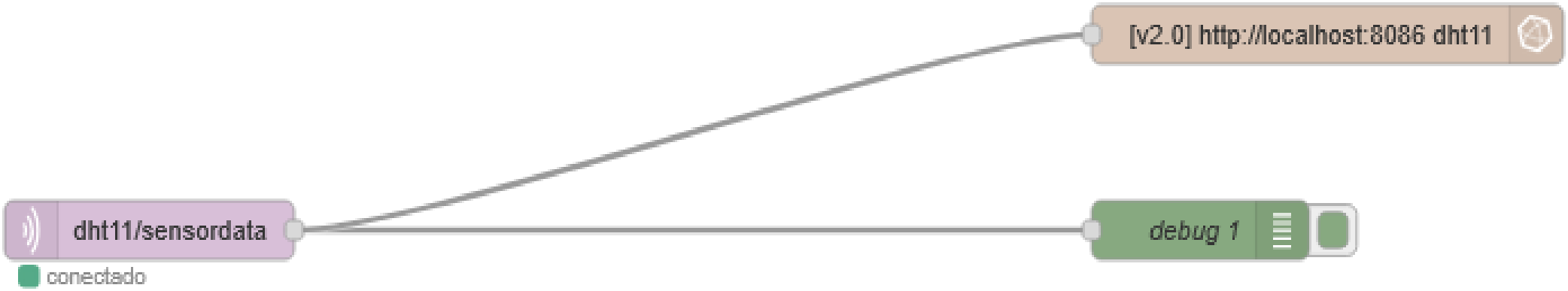
Lactea's Token

Created at: 2025-06-11 09:54:09 Owner: Lactea Last Modified: 5 minutes ago

1


Load Data
SOURCES
BUCKETS
TELEGRAF
SCRAPERS
API TOKENS
Filter Tokens...
Sort by Description (A → Z)
+ GENERATE API TOKEN
Lactea's Token
Created at: 2025-06-11 09:54:09
Owner: Lactea
node-red
Created at: 2025-06-11 09:59:49
Owner: Lactea
You've successfully created an API Token
Make sure to copy your new custom API token now. You won't be able to see it again!
wJuJ73f34Ybe7QYMMvpTz9tZGWz3bNK0sD7zinn3zFawBOGcVxbnuyNnGWeiahe_y3h4pI9r
Bl87uoo-Qrhteg==
COPY TO CLIPBOARD
Copiar para utilizar
No Node Red


Node-RED
implementar
inf
armazenar
influxdb in
influxdb out
influx batch
Fluxo 1
influxdb
dht11/sensordata
debug 1
conectado
Editar influxdb out nó
Deletar
Cancelar
Feito
Propriedades
Nome
Nome
Server
[v2.0] http://localhost:8086
Organization
UFPR
Bucket
sensordata
Measurement
dht11
Time Precision
Milliseconds (ms)
Habilitar
depurar
todos os nós
todos
{ temperature: 16.6, humidity: 58 }
11/06/2025, 10:01:36 nó: debug 1
dht11/sensordata : msg.payload : Object
11/06/2025, 10:01:37 nó: debug 1
dht11/sensordata : msg.payload : Object
11/06/2025, 10:01:39 nó: debug 1
dht11/sensordata : msg.payload : Object
11/06/2025, 10:01:41 nó: debug 1
dht11/sensordata : msg.payload : Object
11/06/2025, 10:01:43 nó: debug 1
dht11/sensordata : msg.payload : Object
11/06/2025, 10:01:46 nó: debug 1
dht11/sensordata : msg.payload : Object
11/06/2025, 10:01:48 nó: debug 1
dht11/sensordata : msg.payload : Object
11/06/2025, 10:01:49 nó: debug 1
dht11/sensordata : msg.payload : Object



Para o InfluxDB agora...

Get Started

U

Sources
Buckets
Telegraf
Scrapers
API Tokens

query data using the programming language of your choice

Node.js

Go

Arduino

View more

InfluxDB CLI

Write and query data using the InfluxDB Command Line Interface. Supports CSV and Line Protocol.

Server Agent (Telegraf)

Easily collect and write data using custom stand-alone agent plugins

Search Documentation

Press CTRL + M on any page to search

USEFUL LINKS

InfluxDB University
Get Started with Flux
Explore Metrics
Build a Dashboard
Write a Task
Report a bug
Community Forum
Feature Requests

InfluxDB v2.7.11
Server: fbf5d4a
Frontend: f4b5694

Load Data

SOURCES | BUCKETS | TELEGRAF | SCRAPERS | API TOKENS

Filter buckets...

Sort by Name (A → Z)

+ CREATE BUCKET

sensordata

Retention: Forever ID: a22ac2e76fb47240

+ Add a label

+ ADD DATA SETTINGS

_monitoring

System Bucket Retention: 7 days ID: 30d946dc86cfc61b

_tasks

System Bucket Retention: 3 days ID: 412e314e093f949b

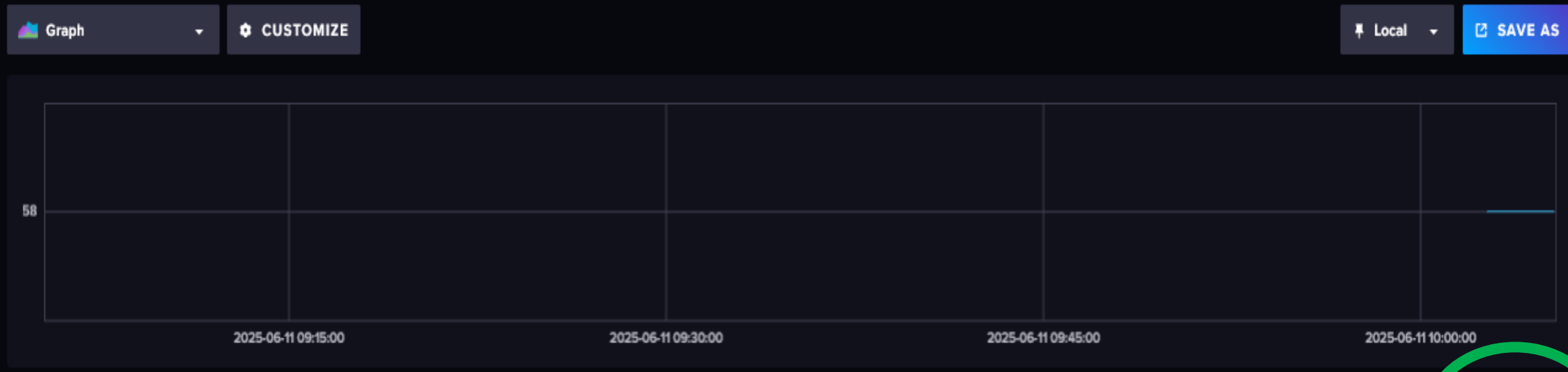
1

What is a Bucket?

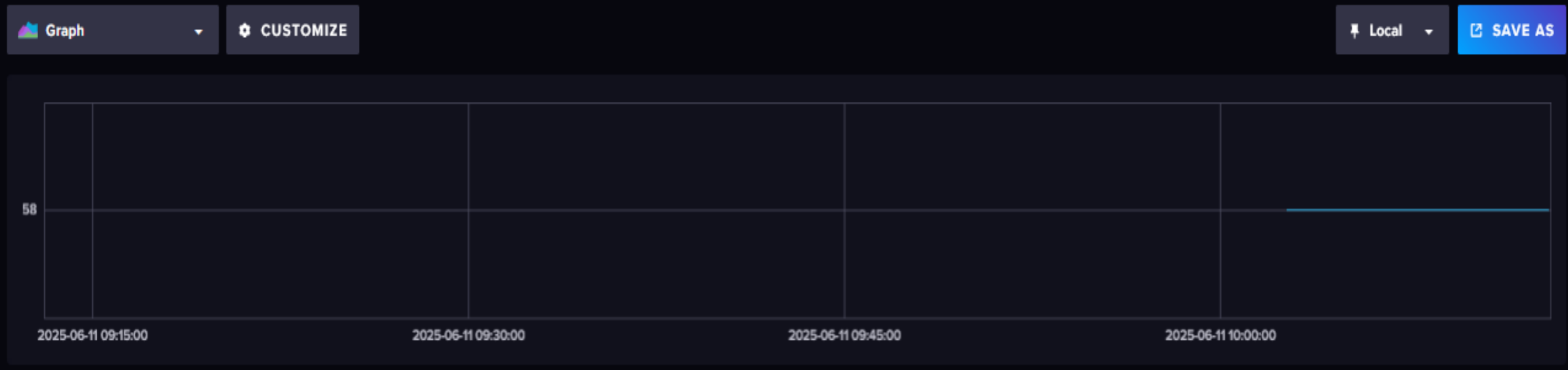
A bucket is a named location where time series data is stored. All buckets have a **Retention Policy**, a duration of time that each data point persists.

Here's how to write data into your bucket.

Data Explorer



Data Explorer



Query 1 (0.19s) +

View Raw Data | Past 1h | QUERY BUILDER | SUBMIT

```
from(bucket: "sensordata")
  |> range(start: v.timeRangeStart, stop: v.timeRangeStop)
  |> filter(fn: (r) => r["_measurement"] == "dht11")
  |> filter(fn: (r) => r["_field"] == "humidity")
  |> aggregateWindow(every: v.windowPeriod, fn: mean, createEmpty: false)
  |> yield(name: "mean")
```

Filter Functions...

Transformations

aggregate.rate

chandeMomentumOscillator

columns

cov

covariance

Functions

Variables

Agora para o Grafana....

Home
Bookmarks
Starred
Dashboards
Explore
Drilldown New!
Alerting
Connections
Administration

Welcome to Grafana

Need help? Documentation Tutorials Community Public Slack

Remove this panel

Basic

The steps below will guide you to quickly finish setting up your Grafana installation.

TUTORIAL
DATA SOURCE AND DASHBOARDS

Grafana fundamentals

Set up and understand Grafana if you have no prior experience. This tutorial guides you through the entire process and covers the "Data source" and "Dashboards" steps to the right.

DATA SOURCES

Add your first data source

Learn how in the docs

DASHBOARDS

Create your first dashboard

Learn how in the docs

Dashboards

Starred dashboards

Recently viewed dashboards

Latest from the blog

jun 09

Implementing Grafana Play privacy policies with Grafana k6: A behind-the-scenes look

Grafana Play is a free and publicly accessible sandbox environment that allows users to explore and learn Grafana without setting up their own instance. Grafana Play comes preloaded with ready-made sample dashboards, and showcases how to

Home
Bookmarks
Starred
Dashboards
Explore
Drilldown New!
Alerting
Connections
Add new connection
Data sources
Administration

Add data source

Choose a data source type

Filter by name or type

Cancel

Time series databases

Prometheus
Open source time series database & alerting
Core

Graphite
Open source time series database
Core
Learn more

InfluxDB
Open source time series database
Core

OpenTSDB
Open source time series database
Core

Logging & document databases

Loki

Home
Bookmarks
Starred
Dashboards
Explore
Drilldown New!
Alerting
Connections
Add new connection
Data sources
Administration

Dashboards

Create and manage dashboards to visualize your data

New

Search for dashboards and folders

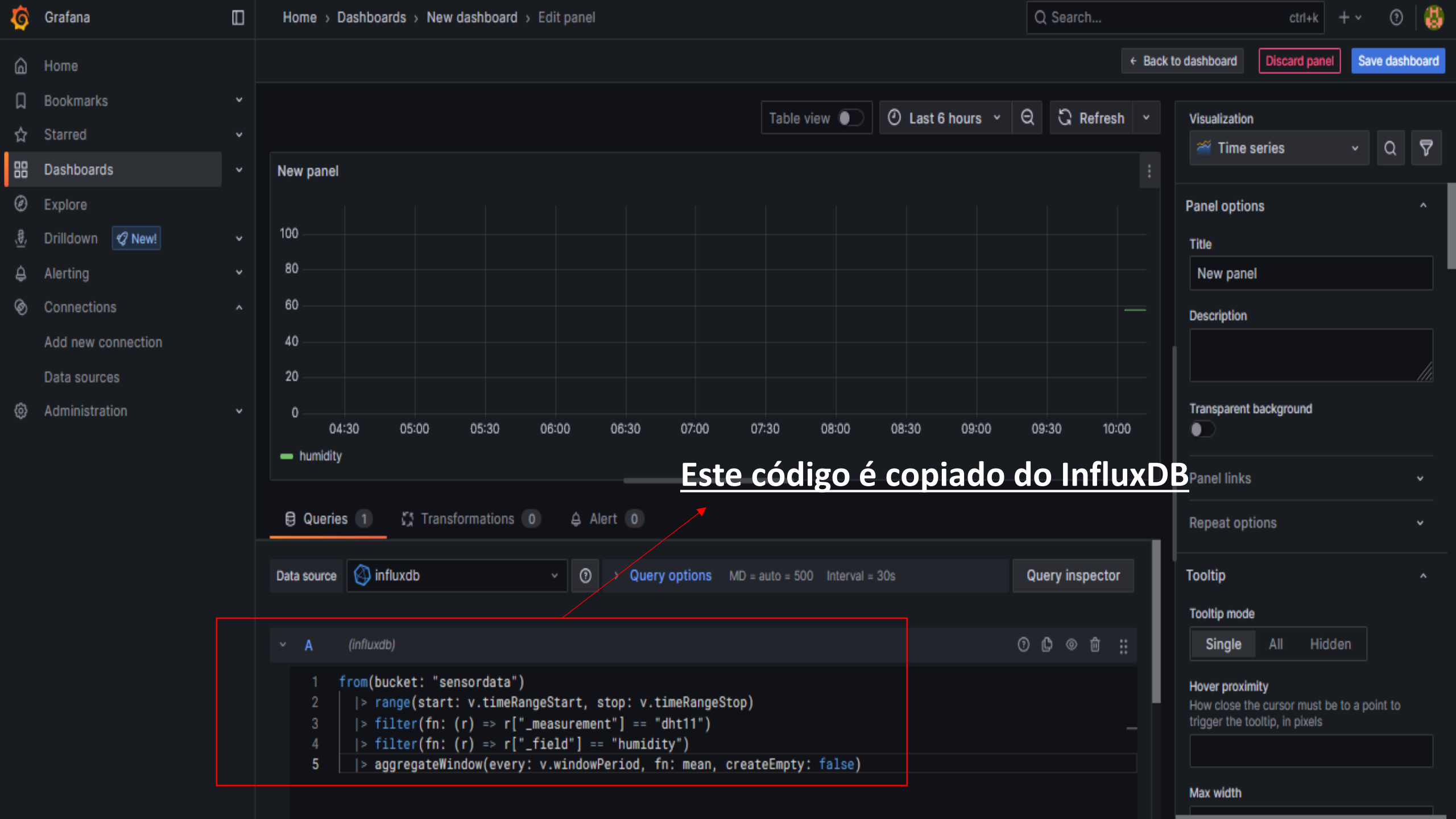
Filter by tag

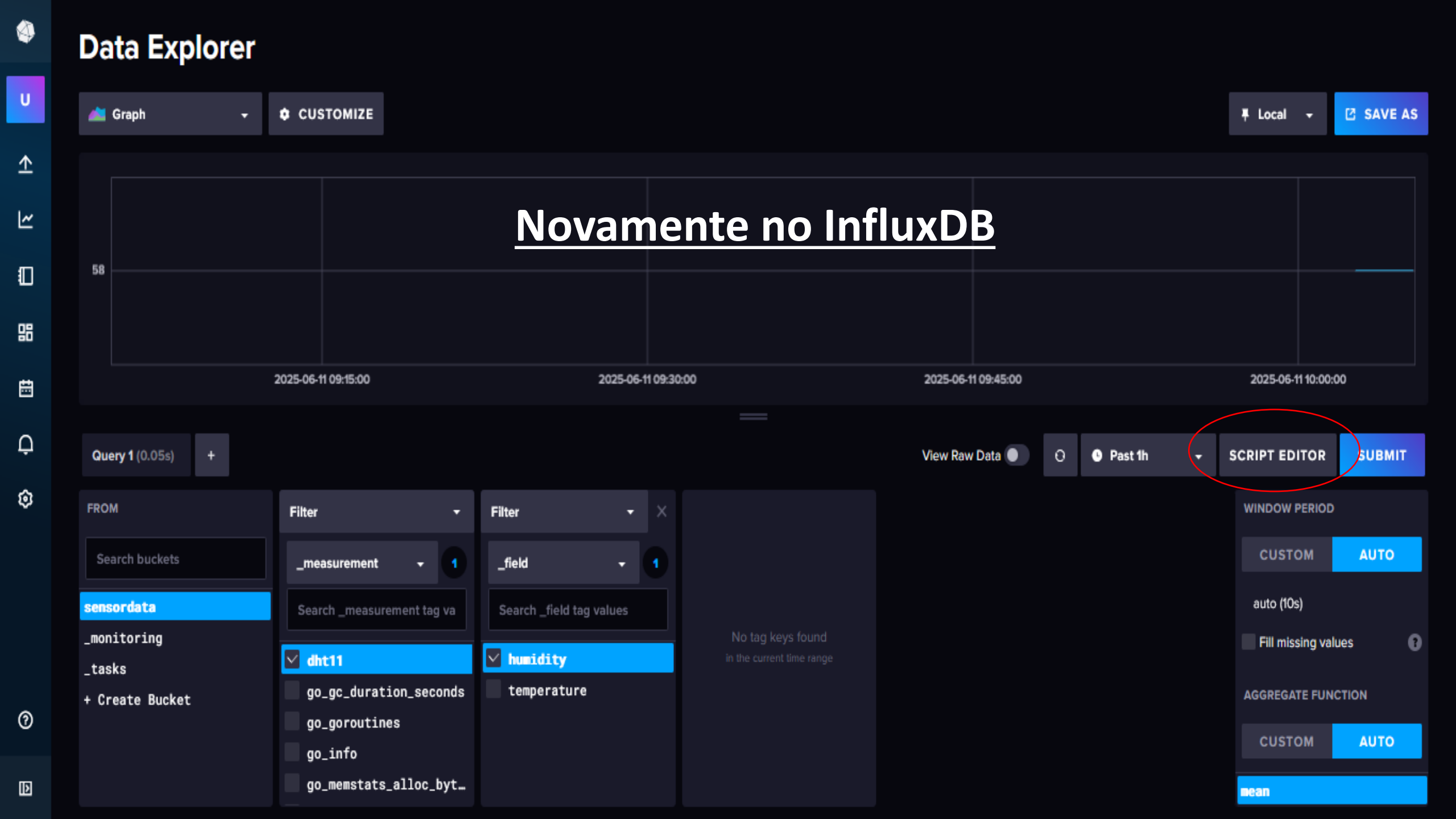
Starred

Sort

You haven't created any dashboards yet

+ Create dashboard


Grafana
Home › Dashboards › New dashboard › Edit panel
Search... ctrl+k
Home
Bookmarks
Starred
Dashboards
Explore
Drilldown
New!
Alerting
Connections
Add new connection
Data sources
Administration
Back to dashboard
Discard panel
Save dashboard
Table view
Last 6 hours
Refresh
New panel
100
80
60
40
20
0
04:30
05:00
05:30
06:00
06:30
07:00
07:30
08:00
08:30
09:00
09:30
10:00
humidity
Este código é copiado do InfluxDB
Queries 1
Transformations 0
Alert 0
Data source
influxdb
Query options
MD = auto = 500
Interval = 30s
Query inspector
A
(influxdb)
1 from(bucket: "sensordata")
2 |> range(start: v.timeRangeStart, stop: v.timeRangeStop)
3 |> filter(fn: (r) => r["_measurement"] == "dht11")
4 |> filter(fn: (r) => r["_field"] == "humidity")
5 |> aggregateWindow(every: v.windowPeriod, fn: mean, createEmpty: false)
Visualization
Time series
Panel options
Title
New panel
Description
Transparent background
Panel links
Repeat options
Tooltip
Tooltip mode
Single
All
Hidden
Hover proximity
How close the cursor must be to a point to trigger the tooltip, in pixels
Max width


Data Explorer
Graph
CUSTOMIZE
Local
SAVE AS
Novamente no InfluxDB
58
2025-06-11 09:15:00
2025-06-11 09:30:00
2025-06-11 09:45:00
2025-06-11 10:00:00
Query 1 (0.05s)
View Raw Data
Past 1h
SCRIPT EDITOR
SUBMIT
FROM
Search buckets
sensordata
_monitoring
_tasks
+ Create Bucket
Filter
_measurement
Search _measurement tag va
dht11
go_gc_duration_seconds
go_goroutines
go_info
go_memstats_alloc_byt…
Filter
_field
Search _field tag values
humidity
temperature
No tag keys found
in the current time range
WINDOW PERIOD
CUSTOM
AUTO
auto (10s)
Fill missing values
AGGREGATE FUNCTION
CUSTOM
AUTO
mean

Data Explorer

Graph | CUSTOMIZE | Local | SAVE AS

Query 1 (0.19s) + | View Raw Data | Past 1h | QUERY BUILDER | SUBMIT

```
from(bucket: "sensordata")
  |> range(start: v.timeRangeStart, stop: v.timeRangeStop)
  |> filter(fn: (r) => r["_measurement"] == "dht11")
  |> filter(fn: (r) => r["_field"] == "humidity")
  |> aggregateWindow(every: v.windowPeriod, fn: mean, createEmpty: false)
  |> yield(name: "mean")
```

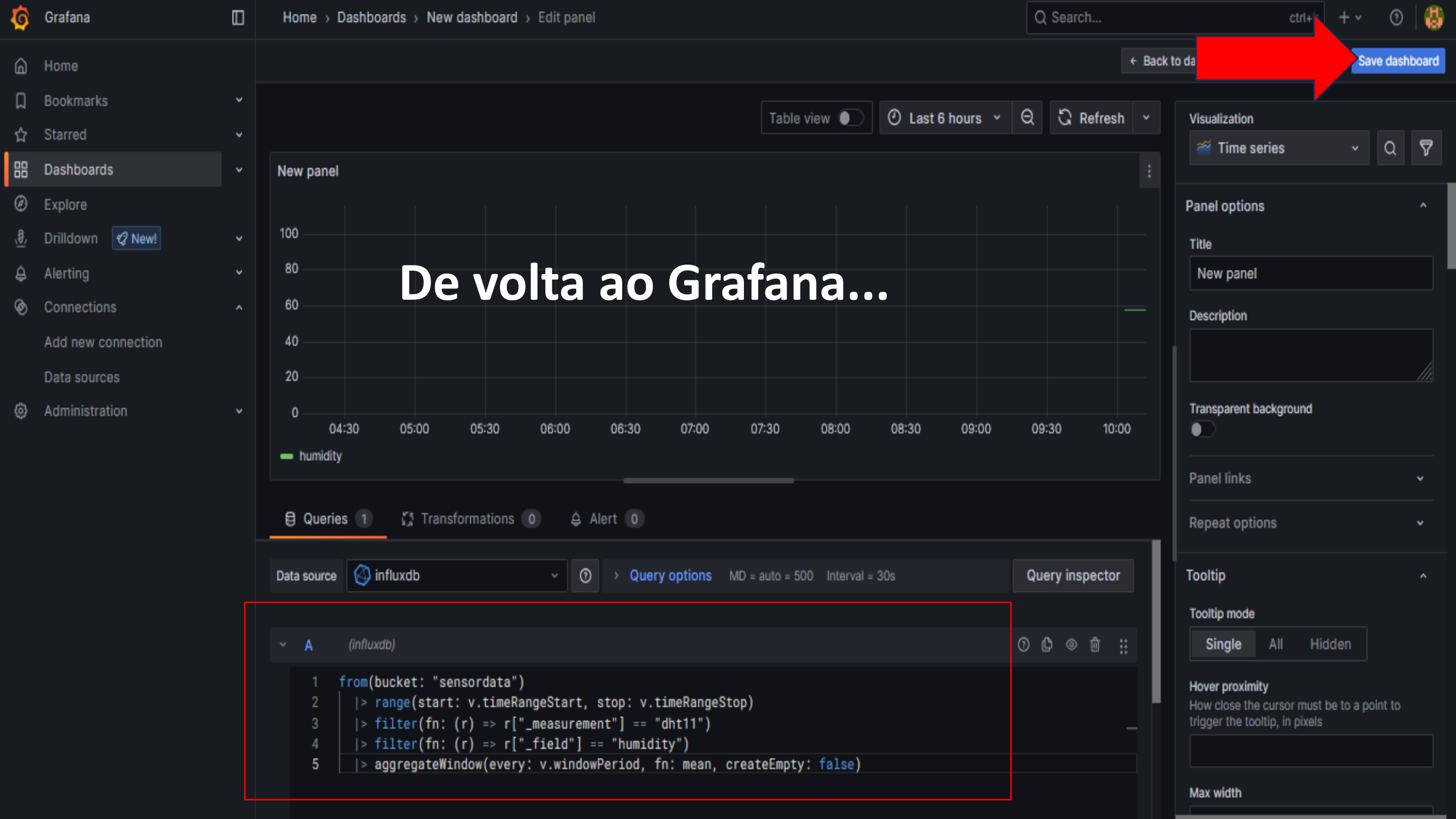
Copiar este código e colar no Grafana

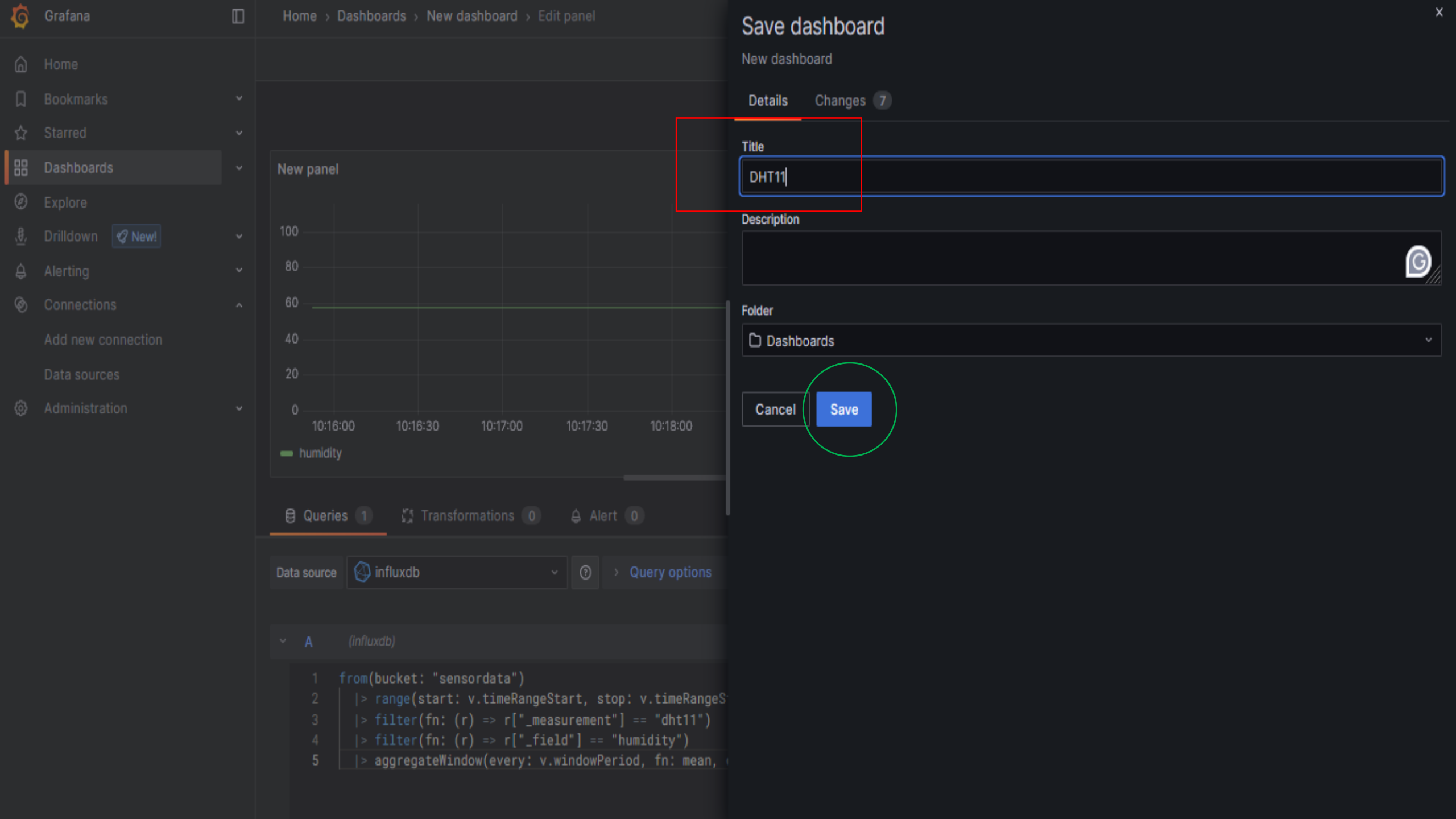
Filter Functions...

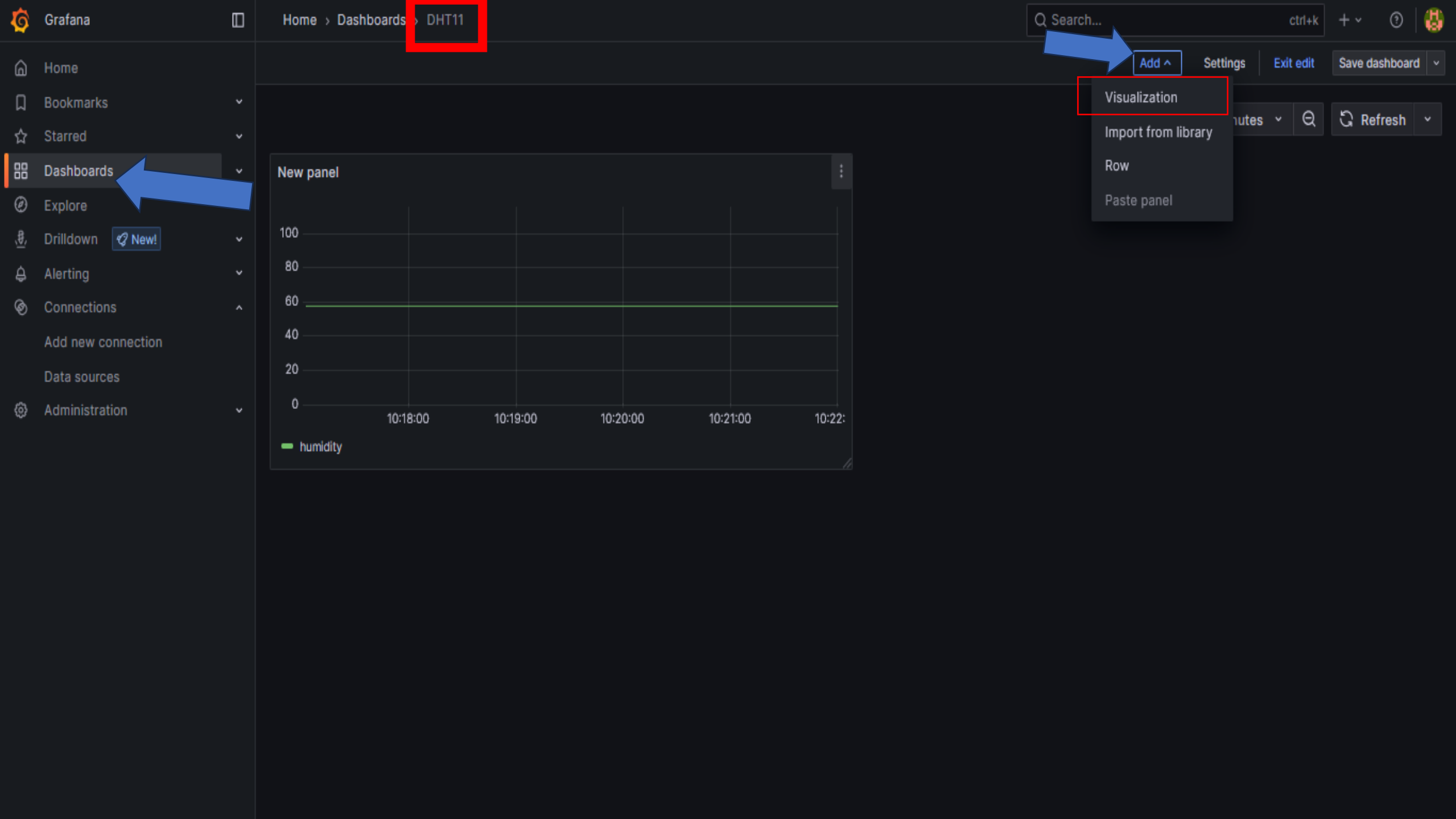
Transformations

aggregate.rate
chandeMomentumOscillator
columns
cov
covariance

Functions | Variables

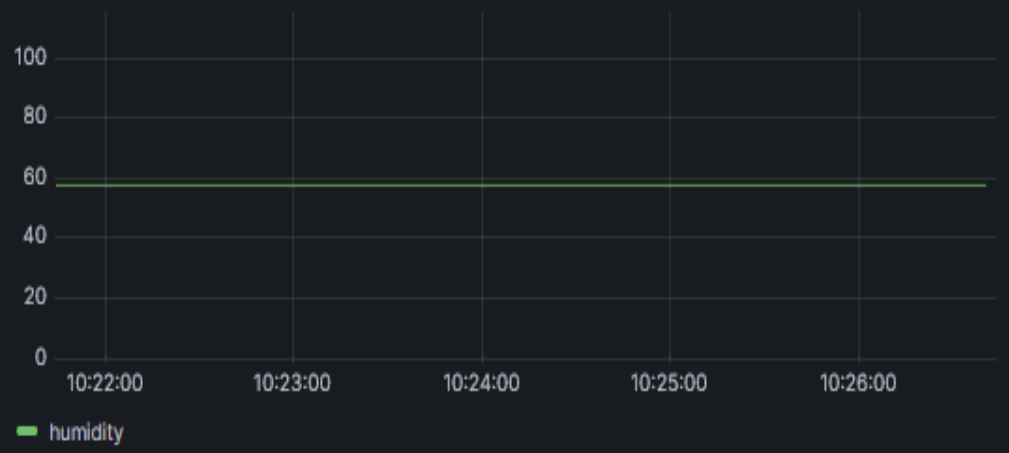

Grafana
Home
Bookmarks
Starred
Dashboards
Explore
Drilldown
New!
Alerting
Connections
Add new connection
Data sources
Administration
Home › Dashboards › New dashboard › Edit panel
Search...
ctrl+k
Back to da
Save dashboard
Table view
Last 6 hours
Refresh
New panel
100
80
60
40
20
0
04:30
05:00
05:30
06:00
06:30
07:00
07:30
08:00
08:30
09:00
09:30
10:00
humidity
De volta ao Grafana...
Queries 1
Transformations 0
Alert 0
Data source
influxdb
Query options
MD = auto = 500
Interval = 30s
Query inspector
A
(influxdb)
1 from(bucket: "sensordata")
2 |> range(start: v.timeRangeStart, stop: v.timeRangeStop)
3 |> filter(fn: (r) => r["_measurement"] == "dht11")
4 |> filter(fn: (r) => r["_field"] == "humidity")
5 |> aggregateWindow(every: v.windowPeriod, fn: mean, createEmpty: false)
Visualization
Time series
Panel options
Title
New panel
Description
Transparent background
Panel links
Repeat options
Tooltip
Tooltip mode
Single
All
Hidden
Hover proximity
How close the cursor must be to a point to trigger the tooltip, in pixels
Max width


Grafana
Home
Bookmarks
Starred
Dashboards
Explore
Drilldown
New!
Alerting
Connections
Add new connection
Data sources
Administration
Home › Dashboards › New dashboard › Edit panel
New panel
100
80
60
40
20
0
10:16:00
10:16:30
10:17:00
10:17:30
10:18:00
humidity
Queries 1
Transformations 0
Alert 0
Data source
influxdb
Query options
A (influxdb)
1 from(bucket: "sensordata")
2 |> range(start: v.timeRangeStart, stop: v.timeRangeS
3 |> filter(fn: (r) => r["_measurement"] == "dht11")
4 |> filter(fn: (r) => r["_field"] == "humidity")
5 |> aggregateWindow(every: v.windowPeriod, fn: mean,
Save dashboard
New dashboard
Details
Changes 7
Title
DHT11
Description
Folder
Dashboards
Cancel
Save


Grafana
Home
Bookmarks
Starred
Dashboards
Explore
Drilldown
New!
Alerting
Connections
Add new connection
Data sources
Administration
Home › Dashboards › DHT11
Search...
ctrl+k
Add
Settings
Exit edit
Save dashboard
Visualization
Import from library
Row
Paste panel
Refresh
New panel
100
80
60
40
20
0
10:18:00
10:19:00
10:20:00
10:21:00
humidity

Home
Bookmarks
Starred
Dashboards
Explore
Drilldown New!
Alerting
Connections
Add new connection
Data sources
Administration

Umidade



Temperatura