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SAnD-indeklima-case-grafana-guide.md

[▶ SAnD-indeklima-case-grafana-guide.md](#)

postgres

Her beskrives hvordan jeg opbygger database samt styrer adgang til data.

create table

```
create table measurements (  
  time      timestamp not null,  
  applicationID int      not null,  
  deviceName varchar(50) not null,  
  devEUI    char(16)   not null,  
  battery   float,  
  co2       int,  
  humidity  int,  
  light     int,  
  motion    int,  
  temperature float  
);  
  
SELECT create_hypertable('measurements', 'time');  
create index applicationID on measurements (applicationID);  
create index devEUI on measurements (devEUI);  
create index time on measurements (time);  
create index deviceName on measurements (deviceName);
```

views

```
create view app12 as select * from measurements where applicationid = 12;
```

auth

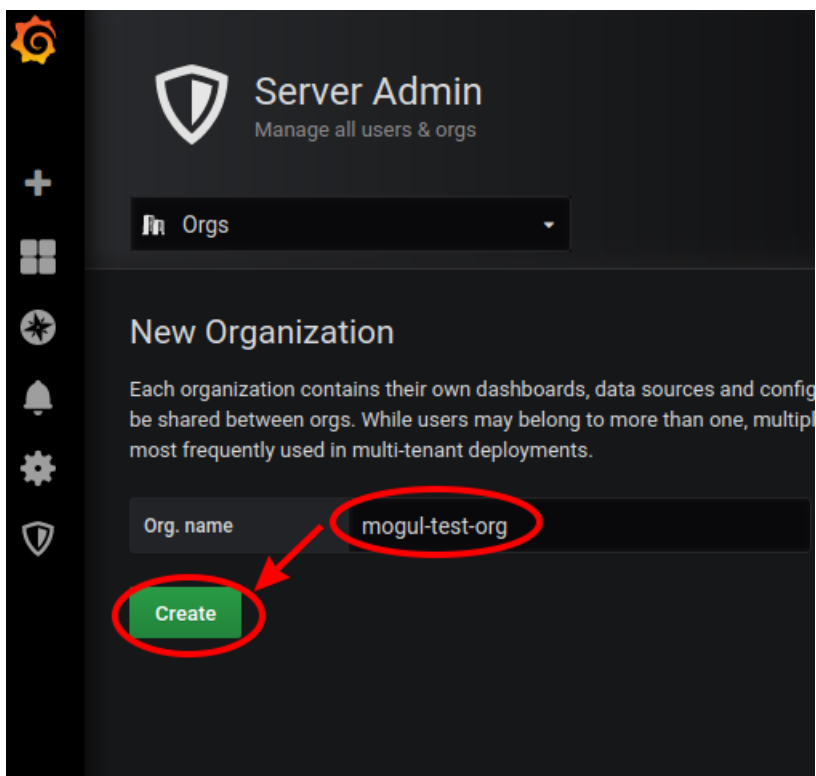
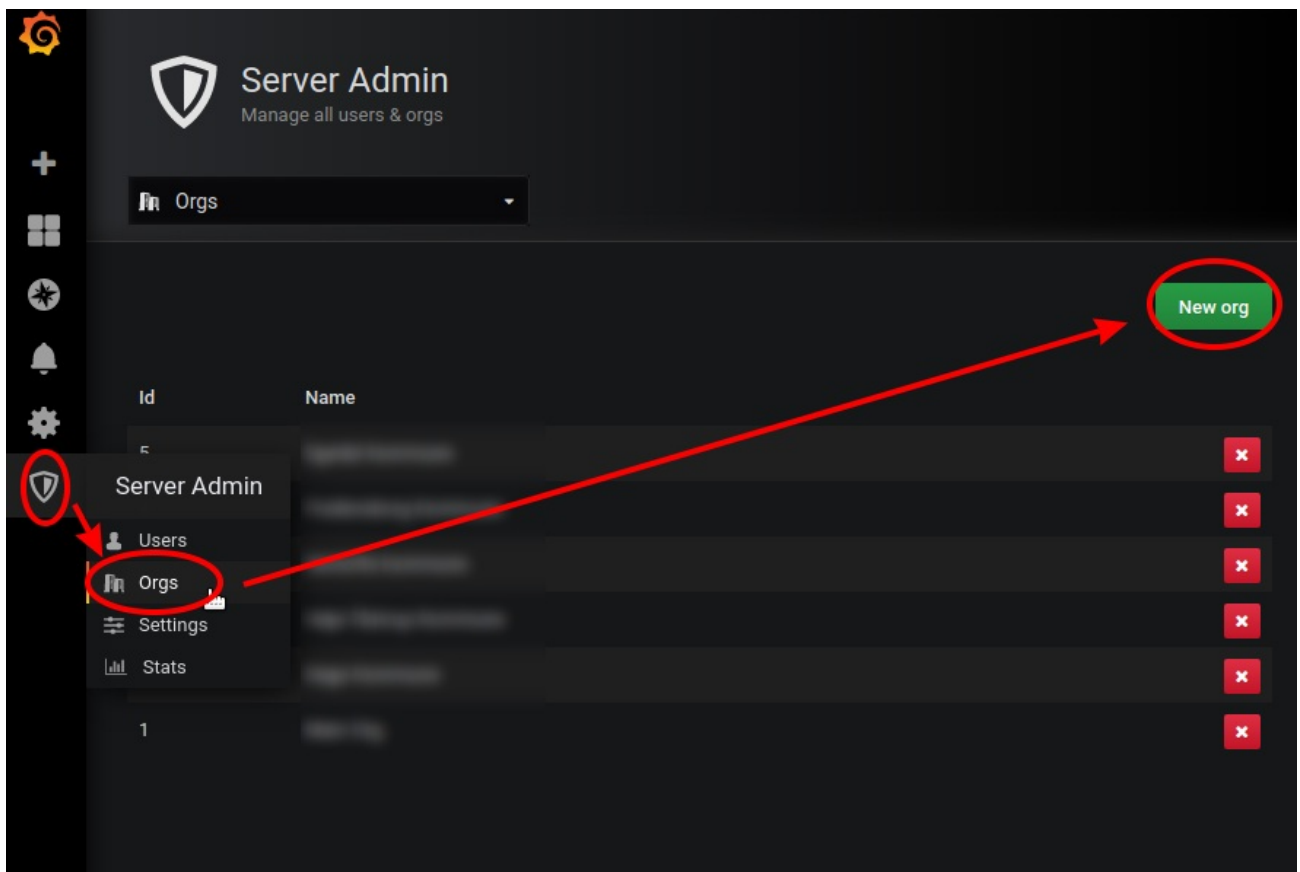
```
create role app12 with encrypted password 'some-random-very-secret-string' login;  
grant select on app12 to app12;
```

grafana

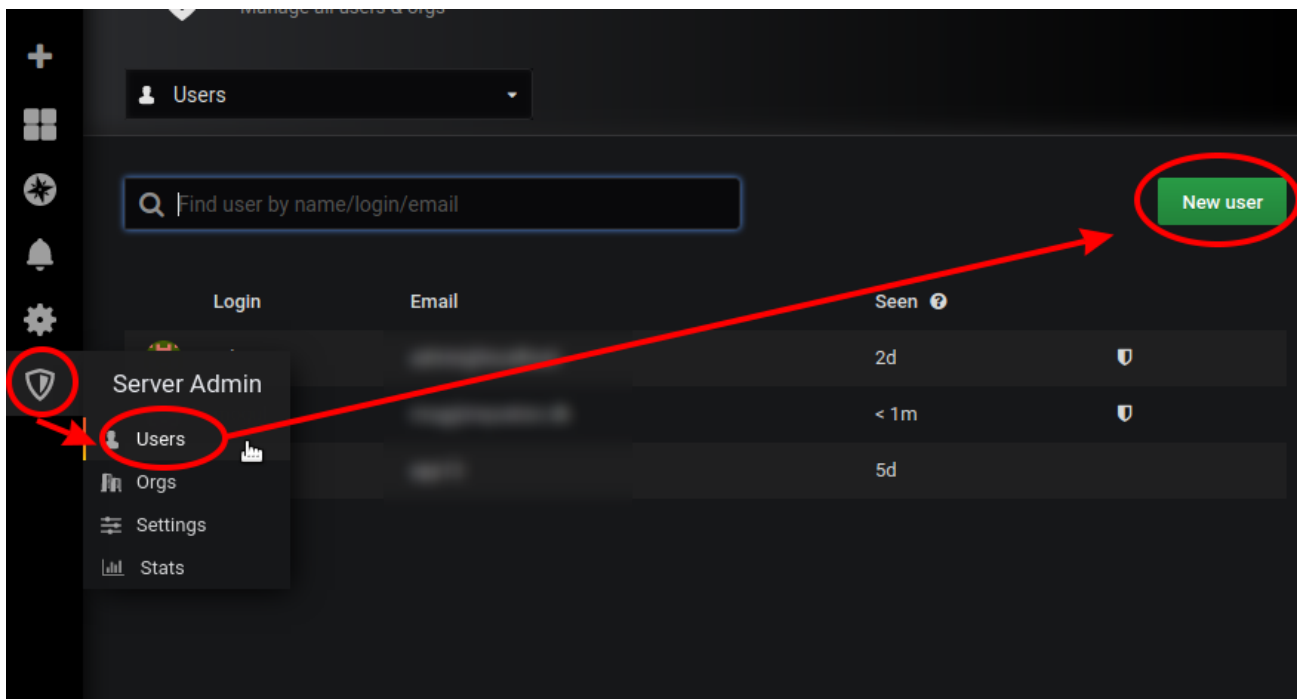
Adgang

Som grafana administrator:

opret organisation



opret bruger



The screenshot shows the 'Add new user' form in the 'Server Admin' interface. The form fields are highlighted with red circles: Name (Morten Guldager), Email (spamtrap@mogul.dk), Username (mogul-test-bruger), Password (masked with dots), and the 'Create' button.

Server Admin
Manage all users & orgs

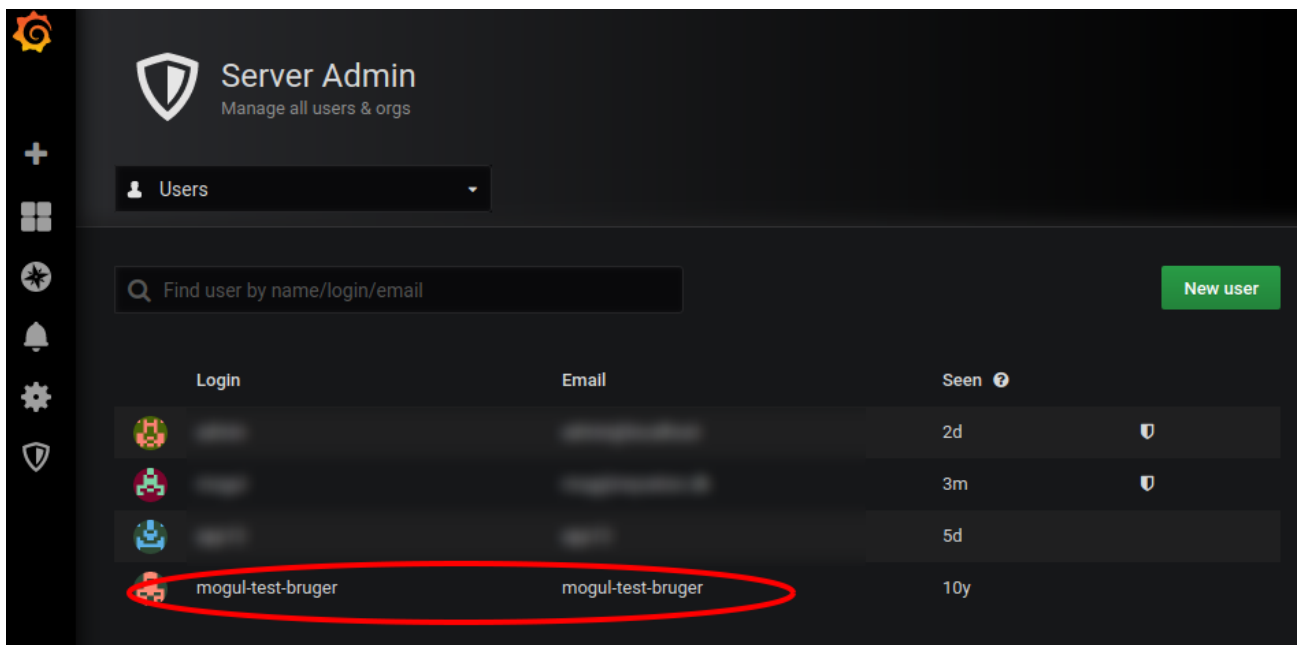
Add new user

Name	Morten Guldager
Email	spamtrap@mogul.dk
Username	mogul-test-bruger
Password

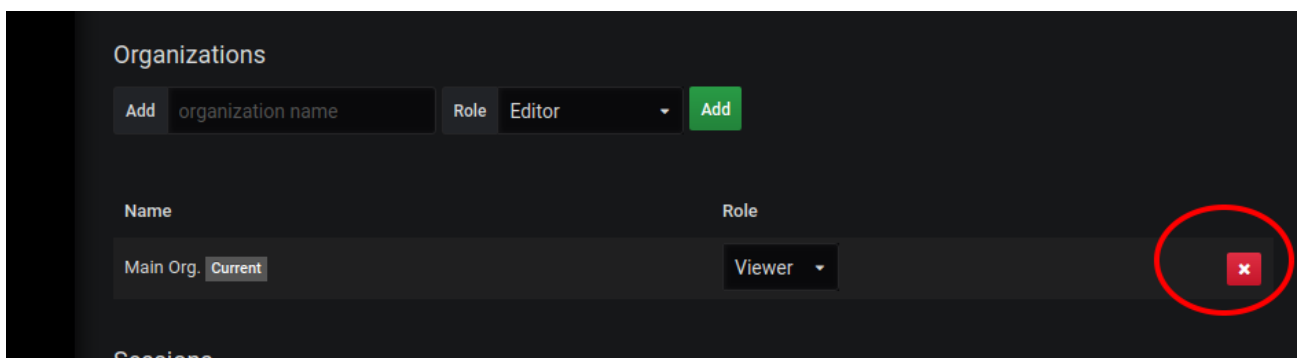
Create

tilføj bruger til organisation

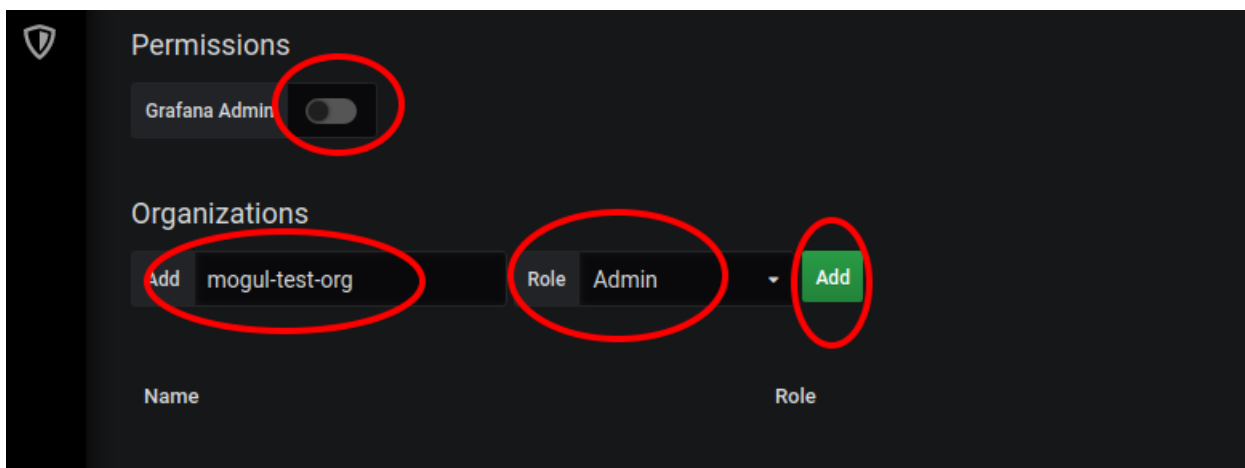
klik på ny bruger



rul lidt ned og slet medlemskab af main org

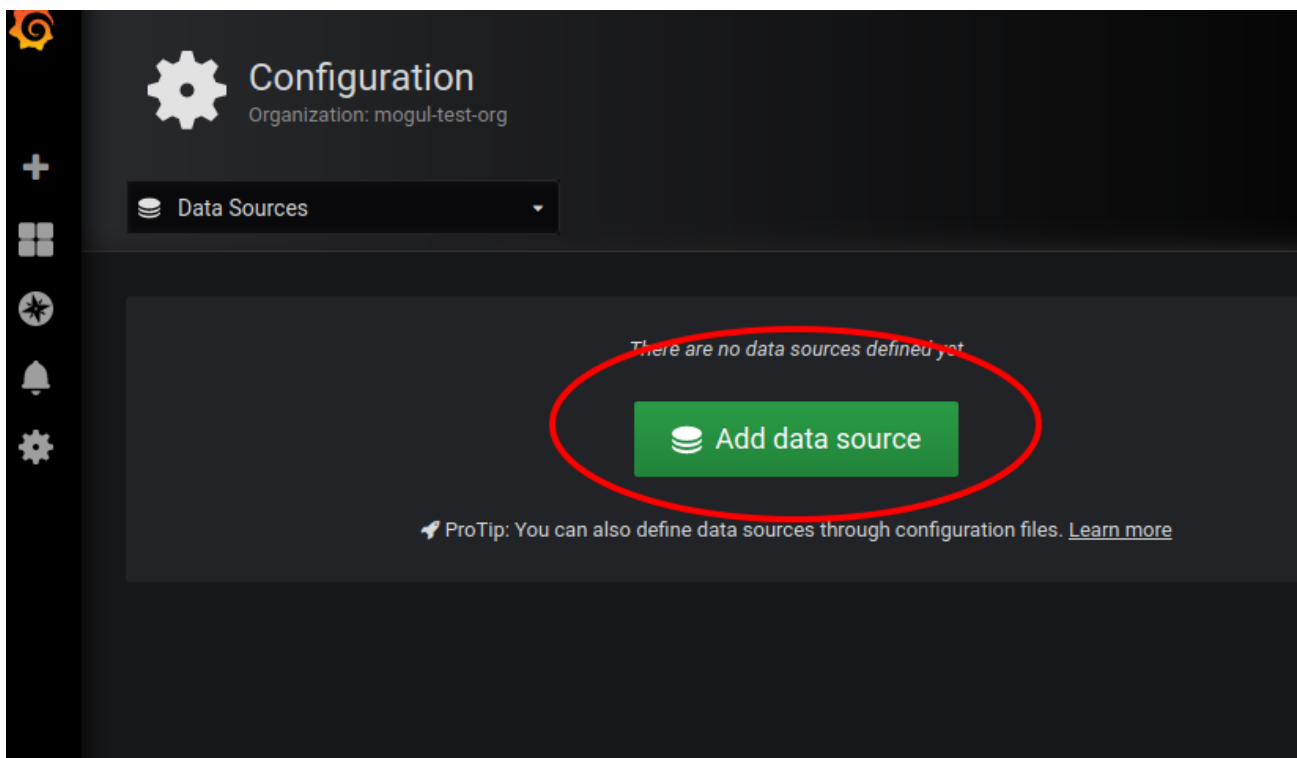
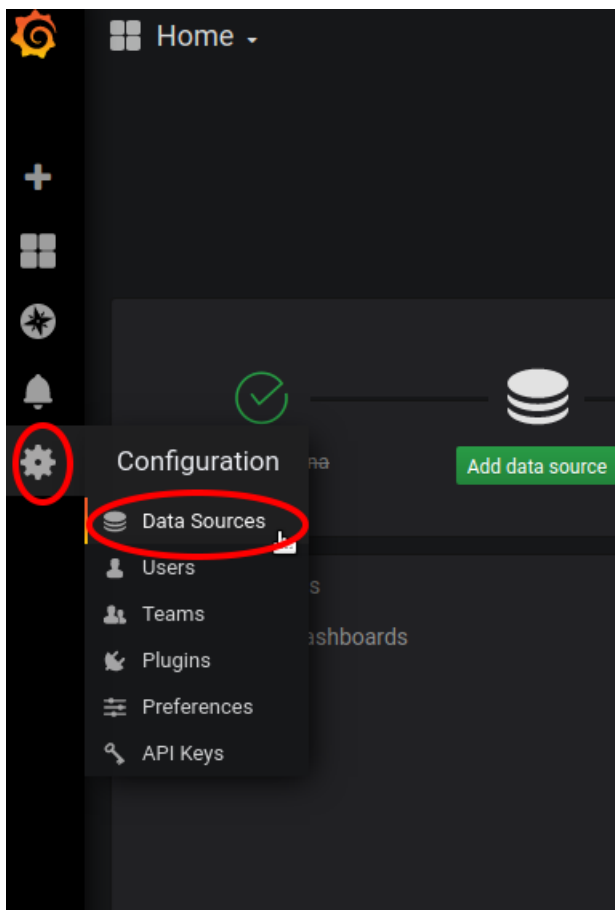


og tilføj så den nye organisation med rollen admin

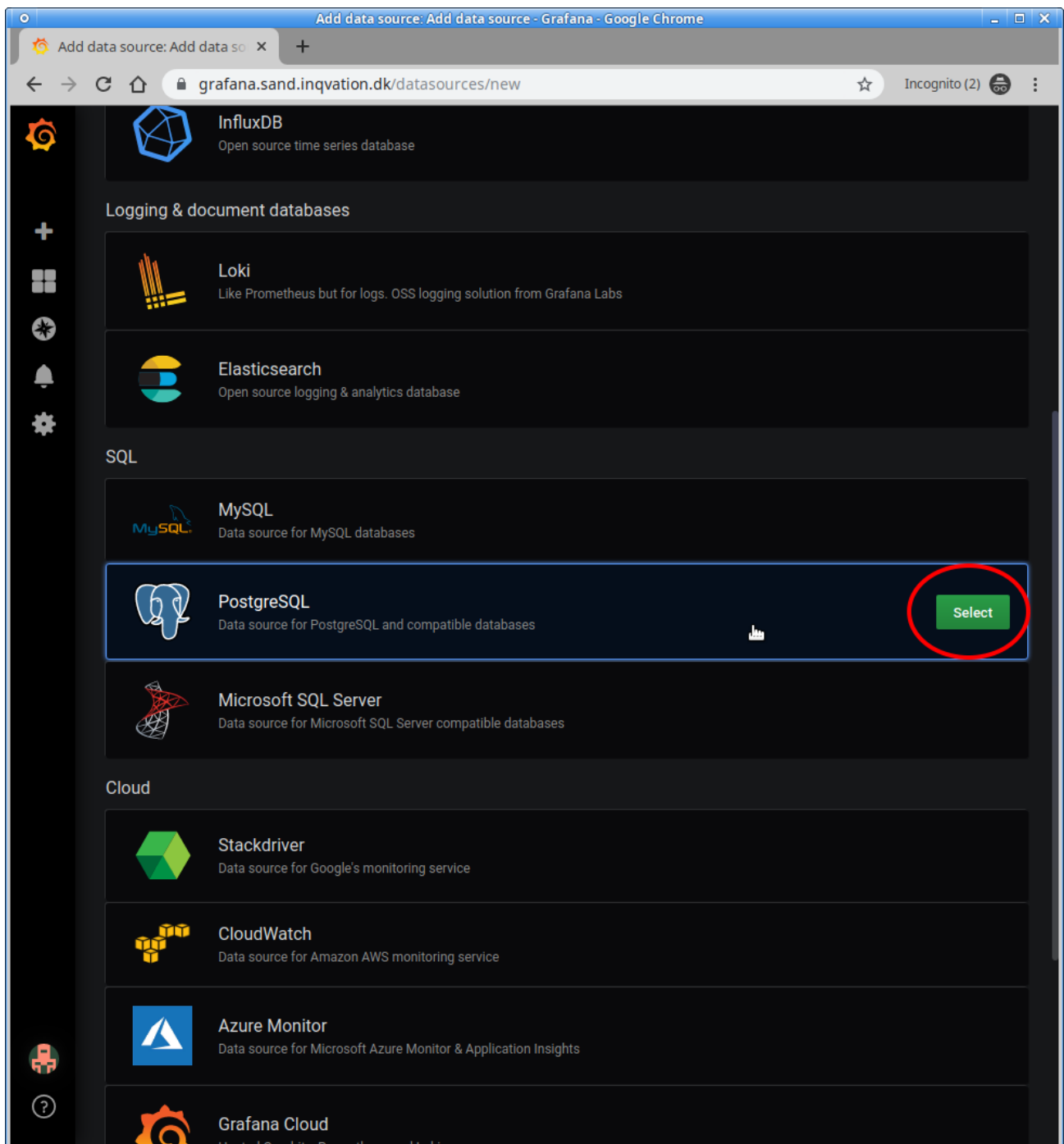


datasource

Som nyligt oprettet bruger:



rul lidt ned og find PostgreSQL



konfigurer og test herefter

Name PostgreSQL Default ☒

PostgreSQL Connection

Host timescaledb_timescaledb_1:5432

Database indeklima

User app12 Password configured [reset](#)

SSL Mode disable

Connection limits

Max open	unlimited
Max idle	2
Max lifetime	14400

PostgreSQL details

Version 10

TimescaleDB ☒ [help](#)

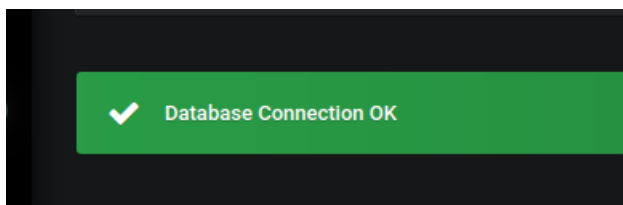
Min time interval 1m

User Permission

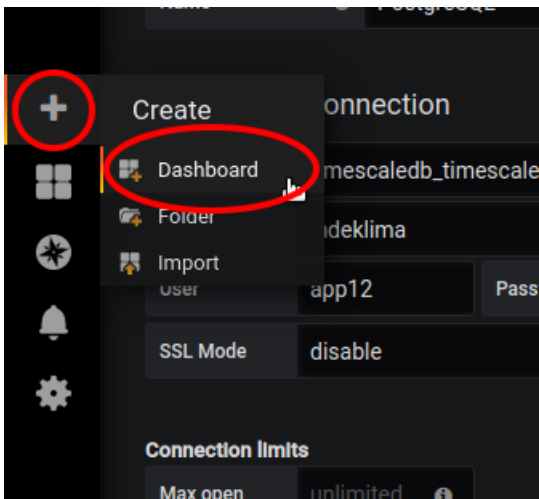
The database user should only be granted SELECT permissions on the specified database & table. To validate that queries are safe so queries can contain any SQL statement. For example, statement `DROP TABLE user;` would be executed. To protect against this we **Highly** recommend you create restricted permissions.

[Save & Test](#) [Delete](#) [Back](#)

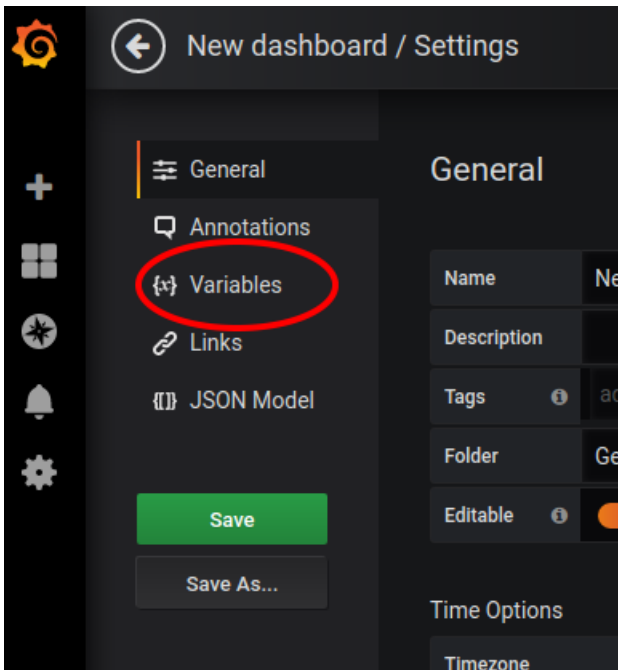
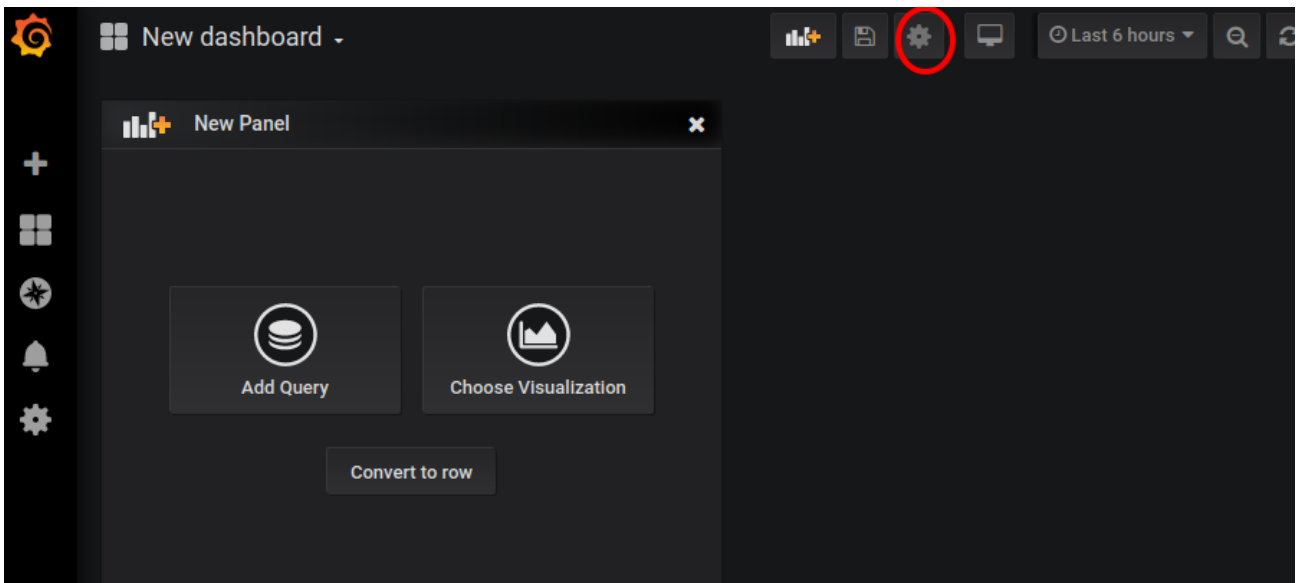
Skal give følgende

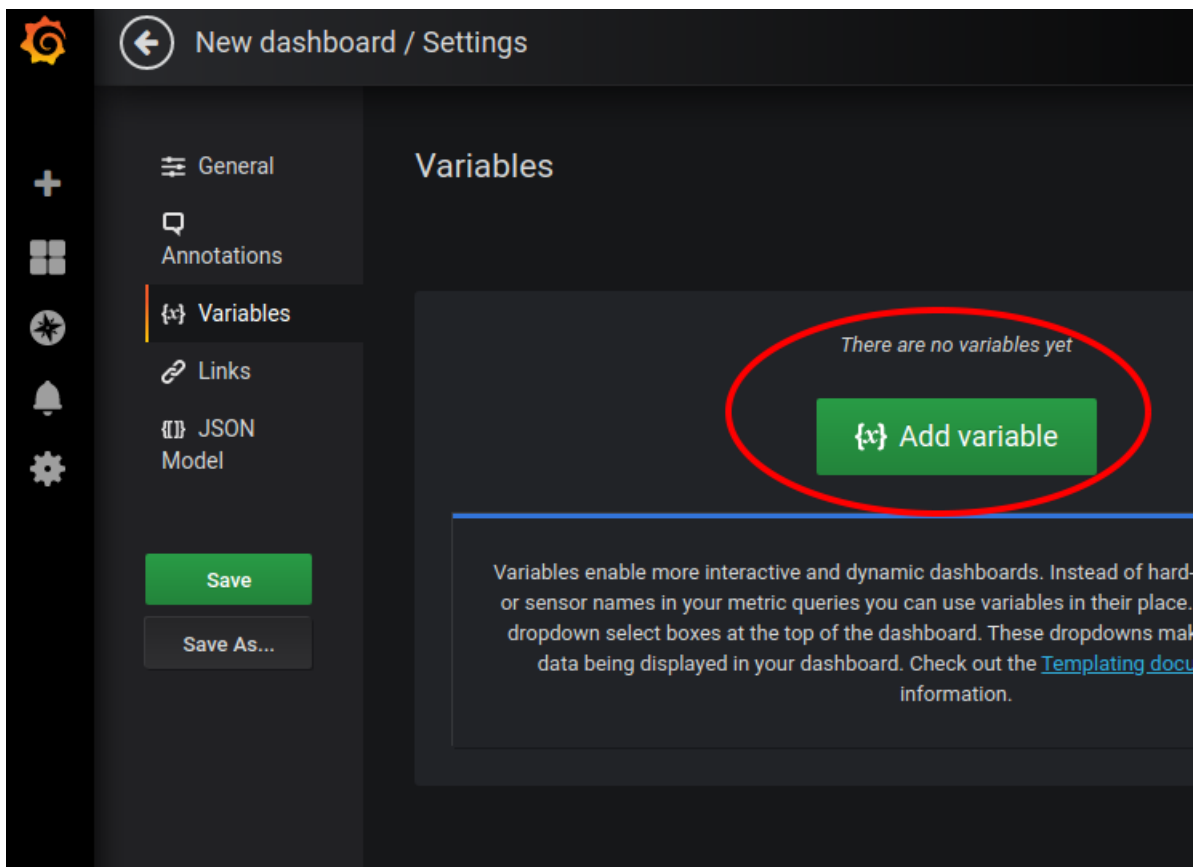



dashboard








opret en variabel





New dashboard / Settings



General

Annotations

Variables

Links

JSON Model

Save

Save As...

Variables > New

General

Name

devicename

Type

Query

Label

optional display name

Hide

Query Options

Data source

PostgreSQL

Refresh

On Dashboard Load

Query

select distinct devicename from app12

Regex

/.*-(.*)-.*/

Sort

Disabled

Selection Options

Multi-value

☐

Include All option

☐

Value groups/tags (Experimental feature)

Enabled

☐

Preview of values

HTK_136

HTK_140

HTK_143

HTK_135

HTK_134

HTK_139

HTK_145

HTK_141

HTK_142

HTK_133


HTK_146






HTK_132

HTK_138

HTK_137

Add

New dashboard / Settings



General

Annotations

Variables

Links

JSON Model

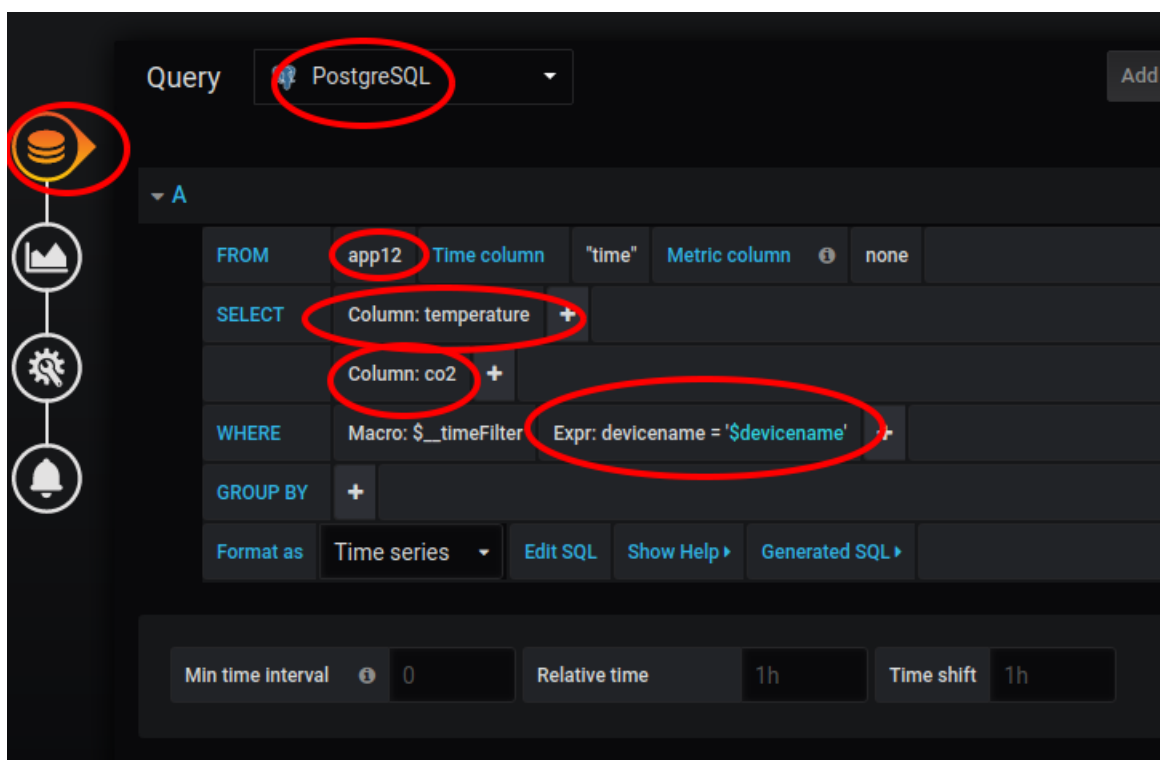
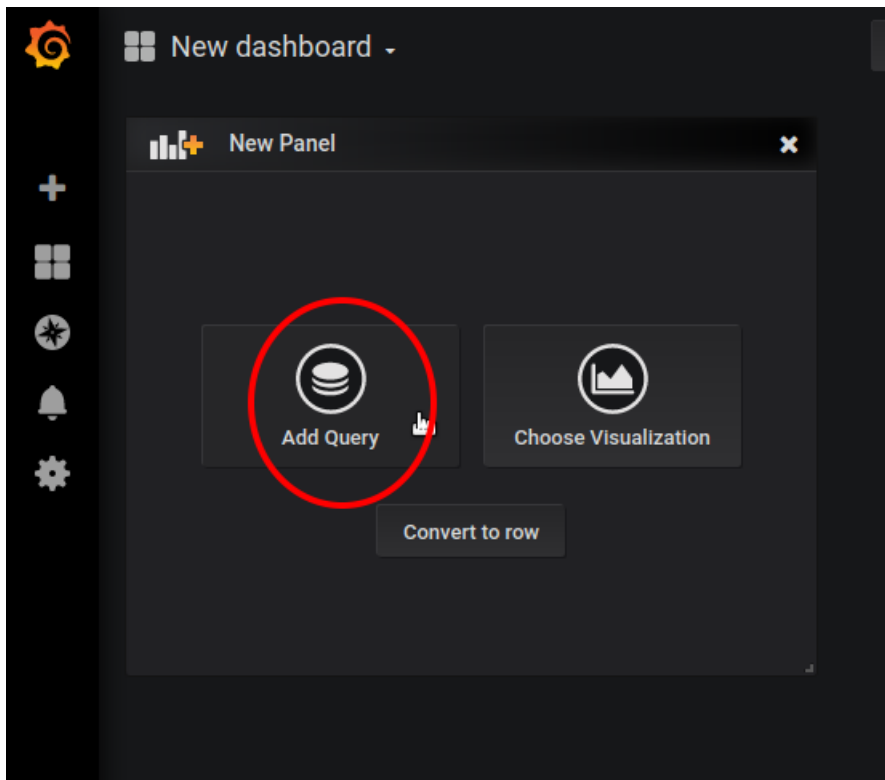
Save

Save As...

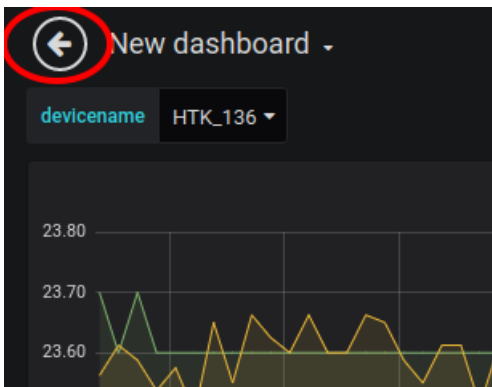
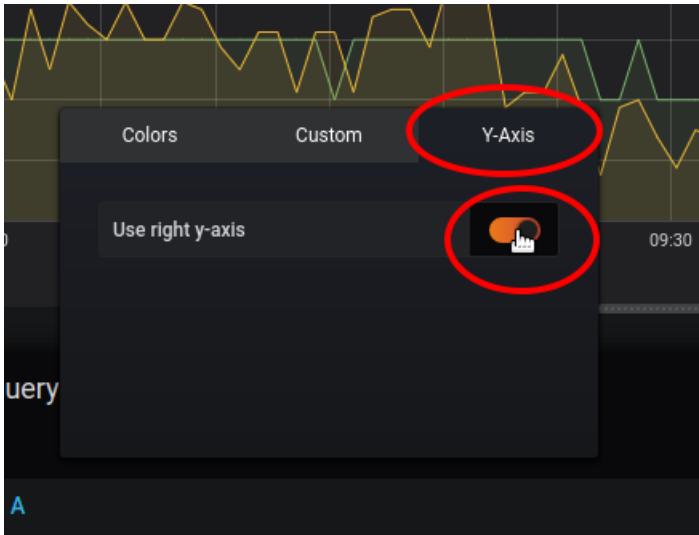
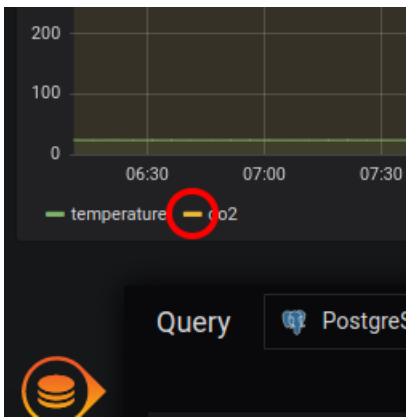
Variables

Variable	Definition
<code>\$devicename</code>	select distinct devicename from app12

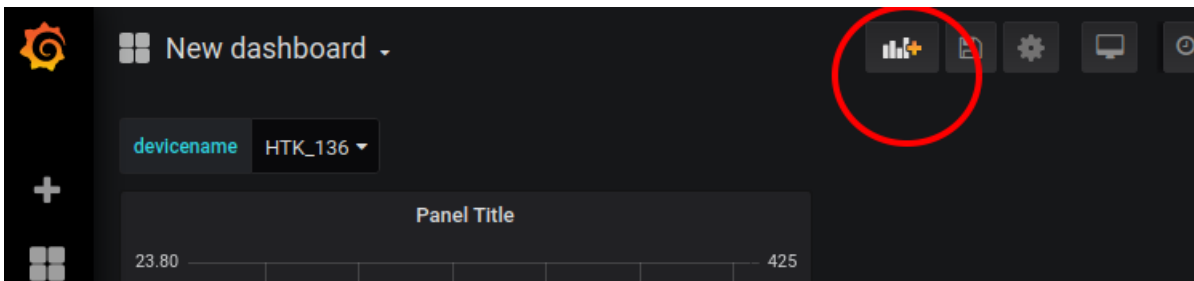
lav data panel

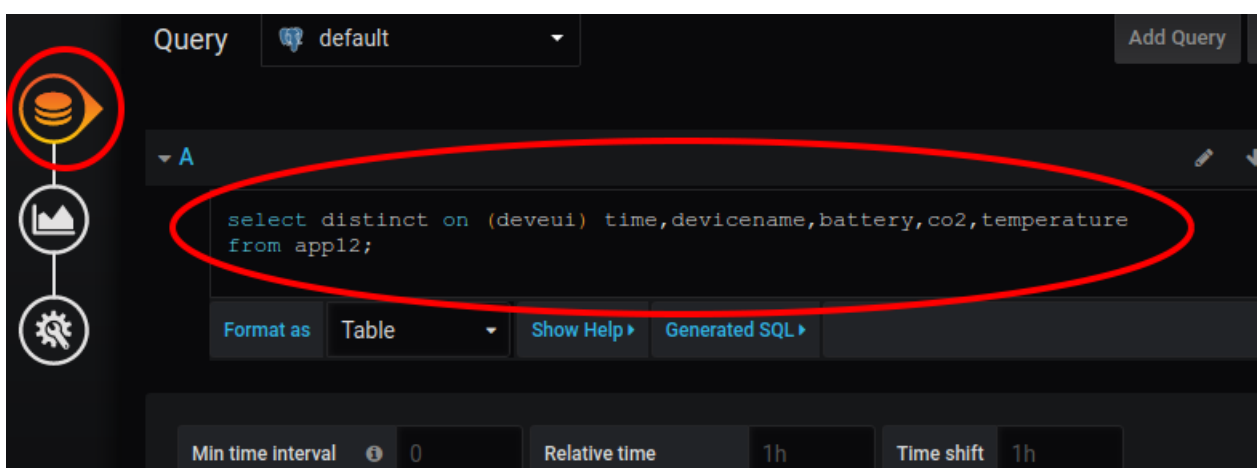
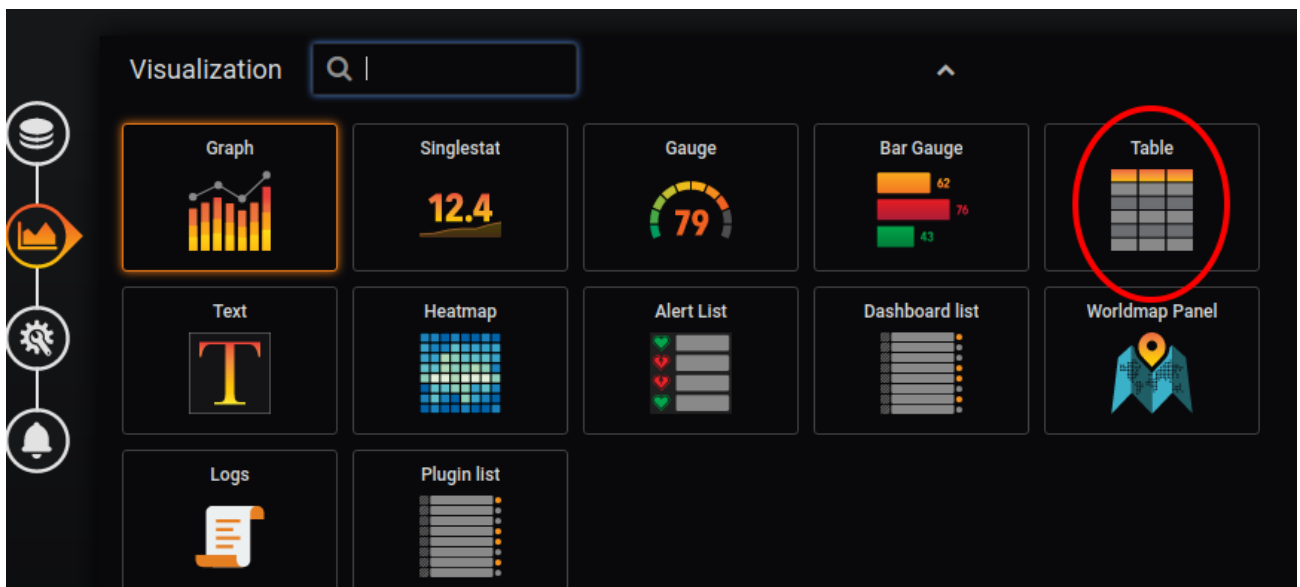
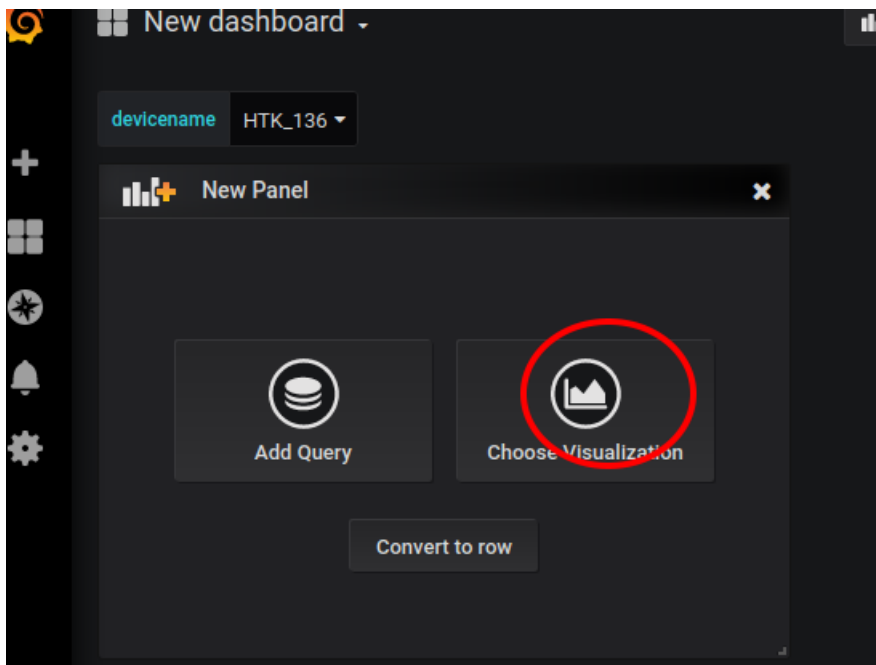


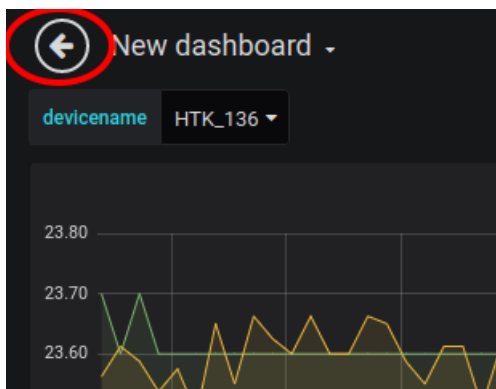
flyt CO2 akse til højre side



lav et device oversigts panel







flyt rundt og eksperimenter

tag fat i panelerne og placer dem hvor de skal være

save

