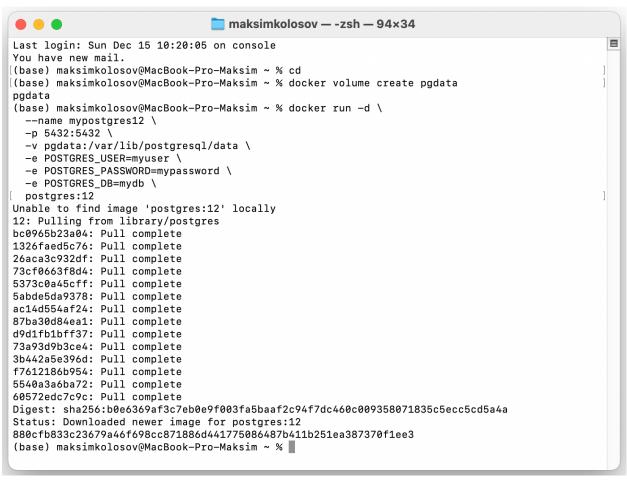
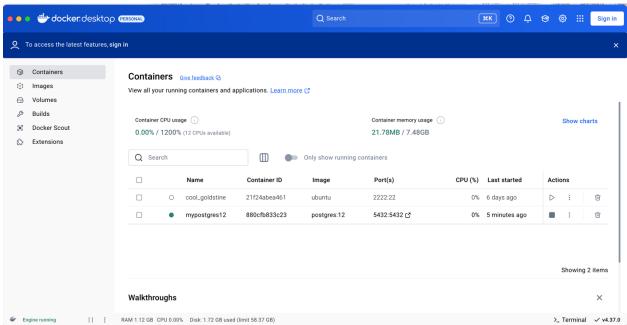
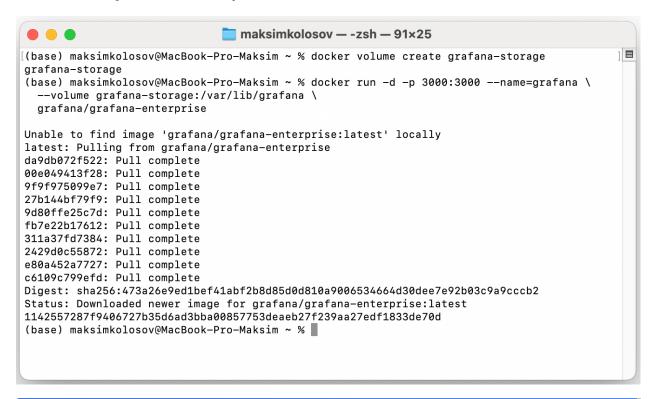
## Лабораторная работа 11

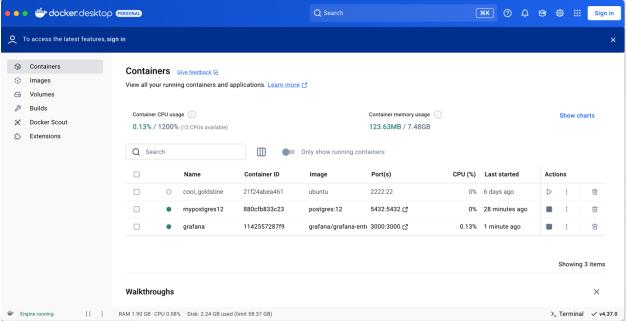
## Часть 1: Подъем PostgreSQL 12 через Docker

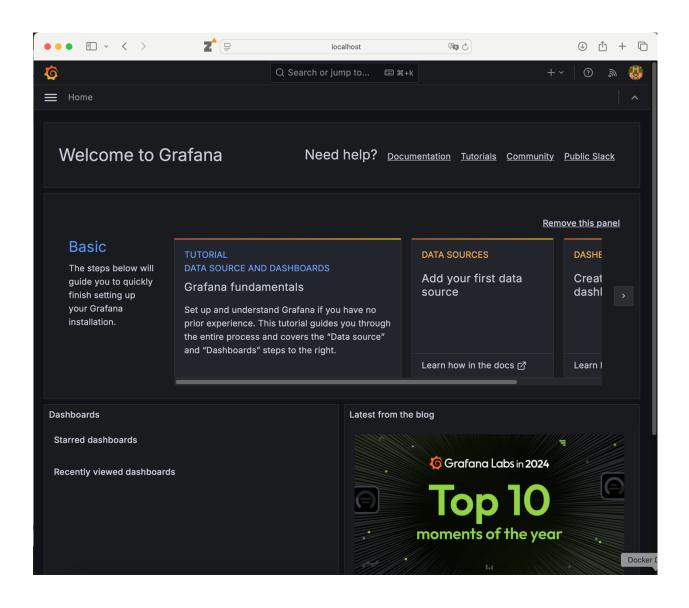




## Часть 2: Запуск Grafana через Docker







## Часть 3: Создание таблицы в PostgreSQL

```
maksimkolosov — psql -h localhost -p 5432 -U myuser -d mydb — 91×16

[(base) maksimkolosov@MacBook=Pro=Maksim ~ % psql -h localhost -p 5432 -U myuser -d mydb

[Password for user myuser:
psql (14.15 (Homebrew), server 12.22 (Debian 12.22-1.pgdg120+1))

Type "help" for help.

mydb=# CREATE TABLE car_sales_by_month (
    id SERIAL PRIMARY KEY,
    year INT NOT NULL,
    month INT NOT NULL CHECK (month >= 1 AND month <= 12),
    brand TEXT NOT NULL,
    units_sold INT NOT NULL

[);
CREATE TABLE
mydb=#
```

Часть 4: Вставка данных о продажах за 2024 год

```
maksimkolosov — psql -h localhost -p 5432 -U myuser -d mydb — 91×33
                                                                                                                                                                                            mydb=# INSERT INTO car_sales_by_month (year, month, brand, model, units_sold)
VALUES CREATE TABLE car_sales_by_month (
        id INSERT INTO car_sales_by_month (year, month, brand, model, units_sold)
VALUES CREATE TABLE car_sales_by_month (
        id INSERT INTO car_sales_by_month (year, month, brand, model, units_sold)
VALUES
(2024, 1, 'Toyota', 'Corolla', 120),>= 1 AND month <= 12), (2024, 1, 'Honda', 'Civic', 95), (2024, 1, 'Ford', 'Focus', 50), (2024, 2, 'Toyota', 'Corolla', 110), (2024, 2, 'Honda', 'Accord', 80), (2024, 2, 'Ford', 'Fiesta', 60), (2024, 3, 'Toyota', 'Camry', 130)
(2024, 3, 'Toyota', 'Camry', 130),
(2024, 3, 'Honda', 'Civic', 100),
(2024, 3, 'Ford', 'Focus', 70),
(2024, 4, 'Toyota', 'Corolla', 125),
(2024, 4, 'Honda', 'Accord', 90),
(2024, 4, 'Ford', 'Mondeo', 45),
(2024, 4, Ford', Mondeo', 45),

(2024, 5, 'Toyota', 'Camry', 140),

(2024, 5, 'Honda', 'Civic', 110),

(2024, 5, 'Ford', 'Focus', 55),

(2024, 6, 'Toyota', 'RAV4', 100),

(2024, 6, 'Honda', 'CR-V', 75),

(2024, 6, 'Ford', 'Kuga', 65),

(2024, 7, 'Toyota', 'Camry', 150)
(2024, 7, 'Toyota', 'Camry', 150),
(2024, 7, 'Honda', 'Civic', 85),
(2024, 7, 'Ford', 'Focus', 60),
(2024, 8, 'Toyota', 'Corolla', 115),
(2024, 8, 'Honda', 'Accord', 95),
(2024, 8, 'Ford', 'Fiesta', 50),
(2024, 12, 'Honda', 'HR-V', 78);,,,),
INSERT 0 40
mydb=#
```

Часть 5: Подключение Grafana к PostgreSQL и построение дашборда

