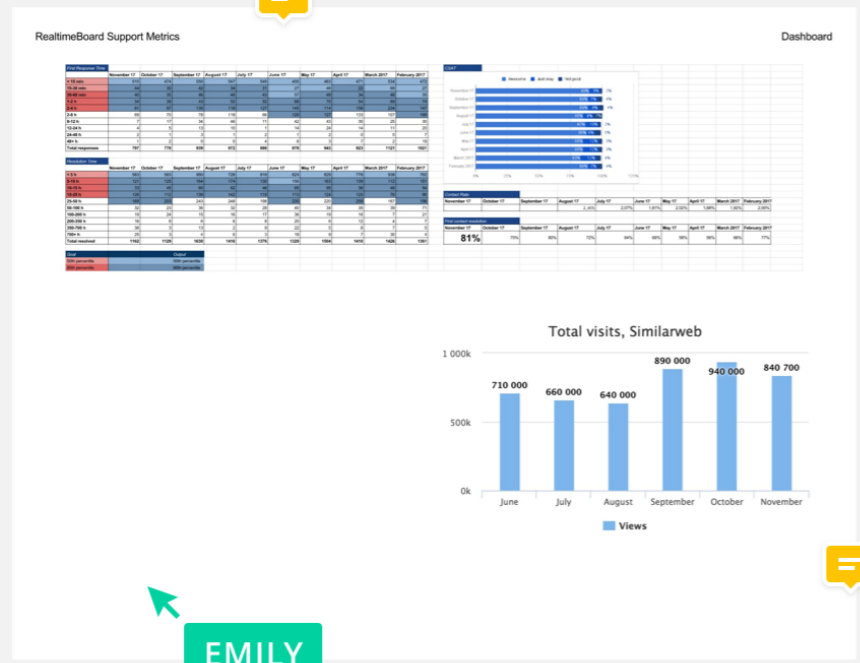
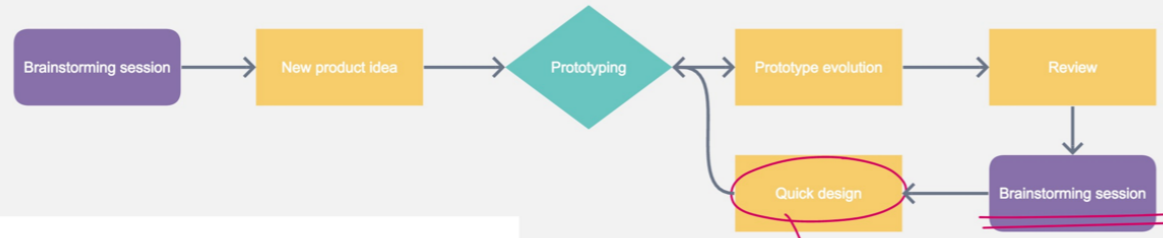
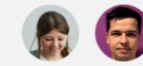


~~Инструмент как код:~~
~~тестируем Postgres~~
Marusy

<https://github.com/Antnch/>

[marucy](#)



EMILY

Push work days RealtimeBoard to Jira!

Subject: [Jira] How you can use the new Jira app in RealtimeBoard to get 100% done in 10 minutes.

RealtimeBoard integrates the distributed product teams can increase together and get things done. Check out the new RealtimeBoard app and get it on your phone today. We'll support you with any issue from your team and we'll be happy to help you get it done.

New improvements

- Check the status of your team and company.
- Click and drag to open a ticket. You can also filter to open any of the existing tickets or create a new one. They are now in a single RealtimeBoard view. The corresponding work is visible in Jira, with all the changes tracked automatically.
- Click to RealtimeBoard.
- Click to RealtimeBoard.
- Click to RealtimeBoard.

Available now

Download the new RealtimeBoard app on the App Store and get it on your phone today. We'll support you with any issue from your team and we'll be happy to help you get it done.

More content about Jira here.

Application and settings	Transactions	Additional information
Interaction with application	Settings	Bank product
Manage the app from an iPhone	Get account details	Bank centers
Manage the app from a tablet	Transfer money	Analytics
Manage the app from an Android device	View transaction history	Analyze expenses
Manage accounts	Be secured	Get bank details
Find application in the Marketplace	Use transactions template	
Set financial goal	Take out a loan easily	
	Search for the nearest offices	
	See loan payments analysis	
	Monitor currency rate	
	Form a bank statement	
	Manage deposits	
	Search for the nearest ATM	
	See deposit additions analysis	
	Calculate deposit options	
	Estimate future expenses	
	Compare offers of the competitors	
	Receive updates on banking service	
	Export information to PDF	
	Make third party payments	
	Be offered with loyalty programs	

Plug-n-play on any device

Stay on the same page with your team from your office or on the go.

Mobile App

Bring entry notes from the wall to the board easily. Get access to RealtimeBoard features on the go.

Desktop App

Install RealtimeBoard to open the board in several sites and benefit right from your desk.

Surface Hub

Install RealtimeBoard to open the board in several sites and benefit right from your desk.

Power your team with RealtimeBoard!

Over 1,000,000 project leaders, UX designers, team and agile specialists, product managers trust us worldwide.

MATTHEW

We are on a mission to help teams create the Next Big Things

RealtimeBoard is an infinite canvas and whiteboarding platform that allows your team ideas, visualize and share ideas without any boundaries.

The world of work has dramatically

People work in a distributed environment and companies are no longer limited by geographic boundaries. Collaboration always happens between people, not between tools and screens, and the biggest challenge is communication and team alignment.

We help teams and organizations

Stay on the same page and achieve more.

60% of the people are upskilled learners

and it's crucial for them to see the big picture and map their thoughts, ideas and projects visually. That's why emails, messengers and other leading tools are obviously not enough.

We follow these values building our business, team and brand

Play as a team, to win the world

Dare to dream big and work hard

Drive change and be open

Yes to passion is, no to bullshit

Creating a better version of ourselves every day

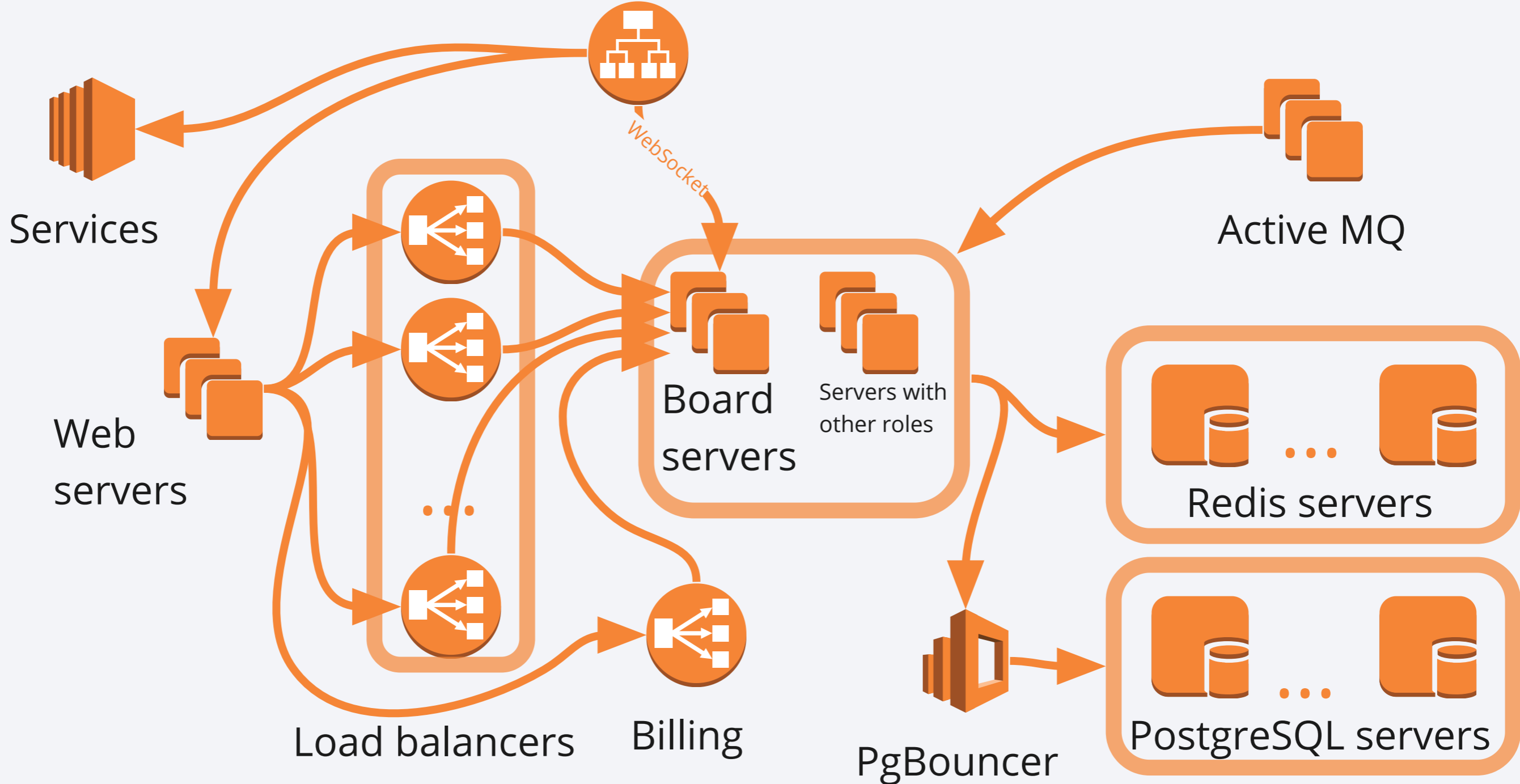
Ready to give a hand

Power your team with RealtimeBoard!

Over 1,000,000 project leaders, UX designers, team and agile specialists, product managers trust us worldwide.



Схема сервиса



Что мы хотим тестировать под нагрузкой в контексте базы?

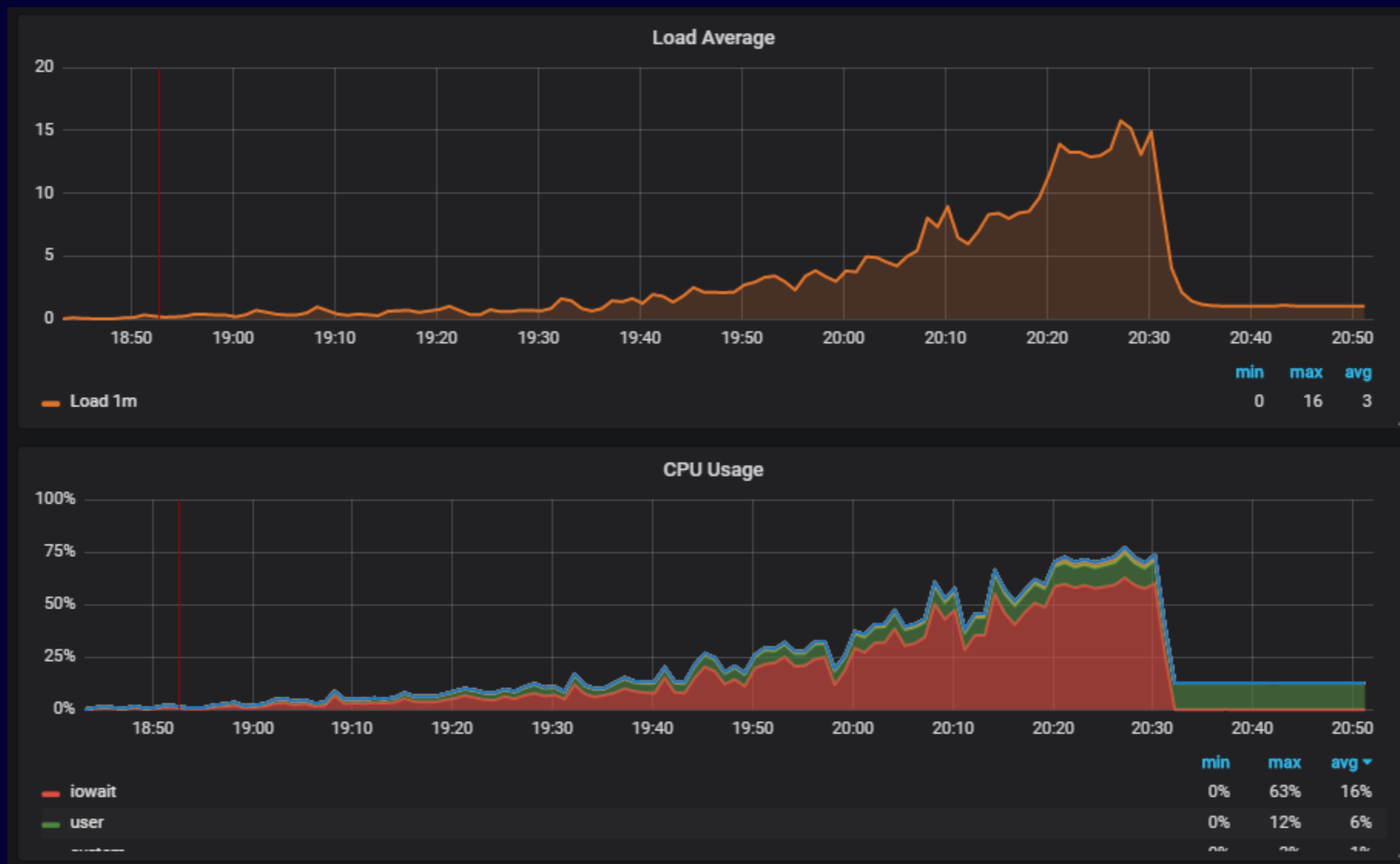
**Тяжёлые
запросы?**

**Тест поможет их
посчитать, но сама
проблема решается
не нагрузочными
тестами**

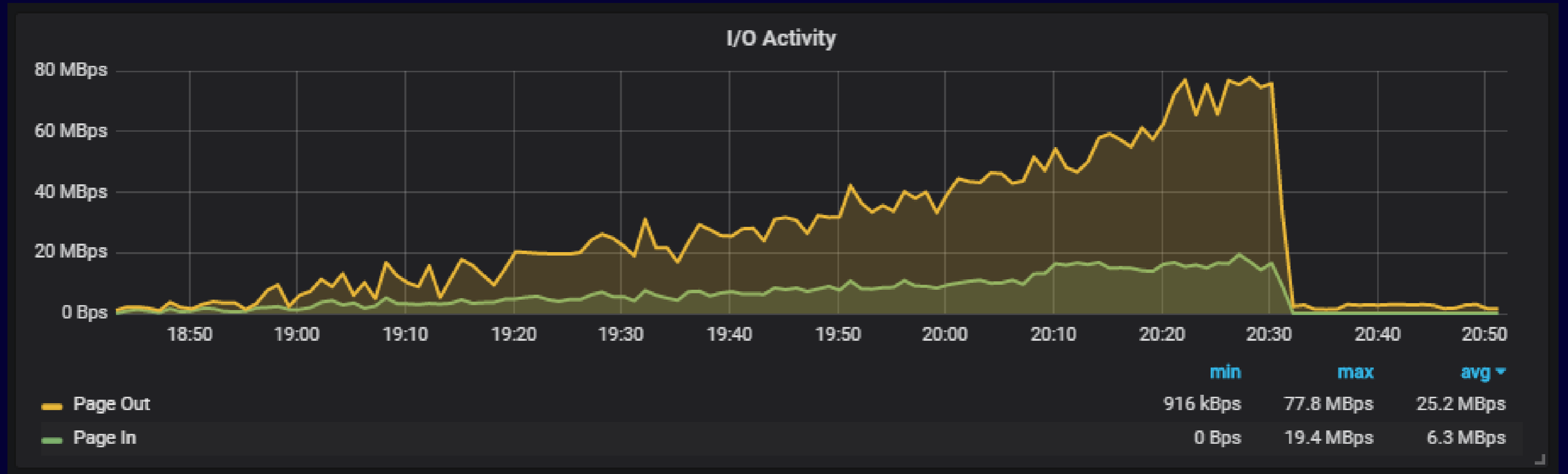
miro

В диск?

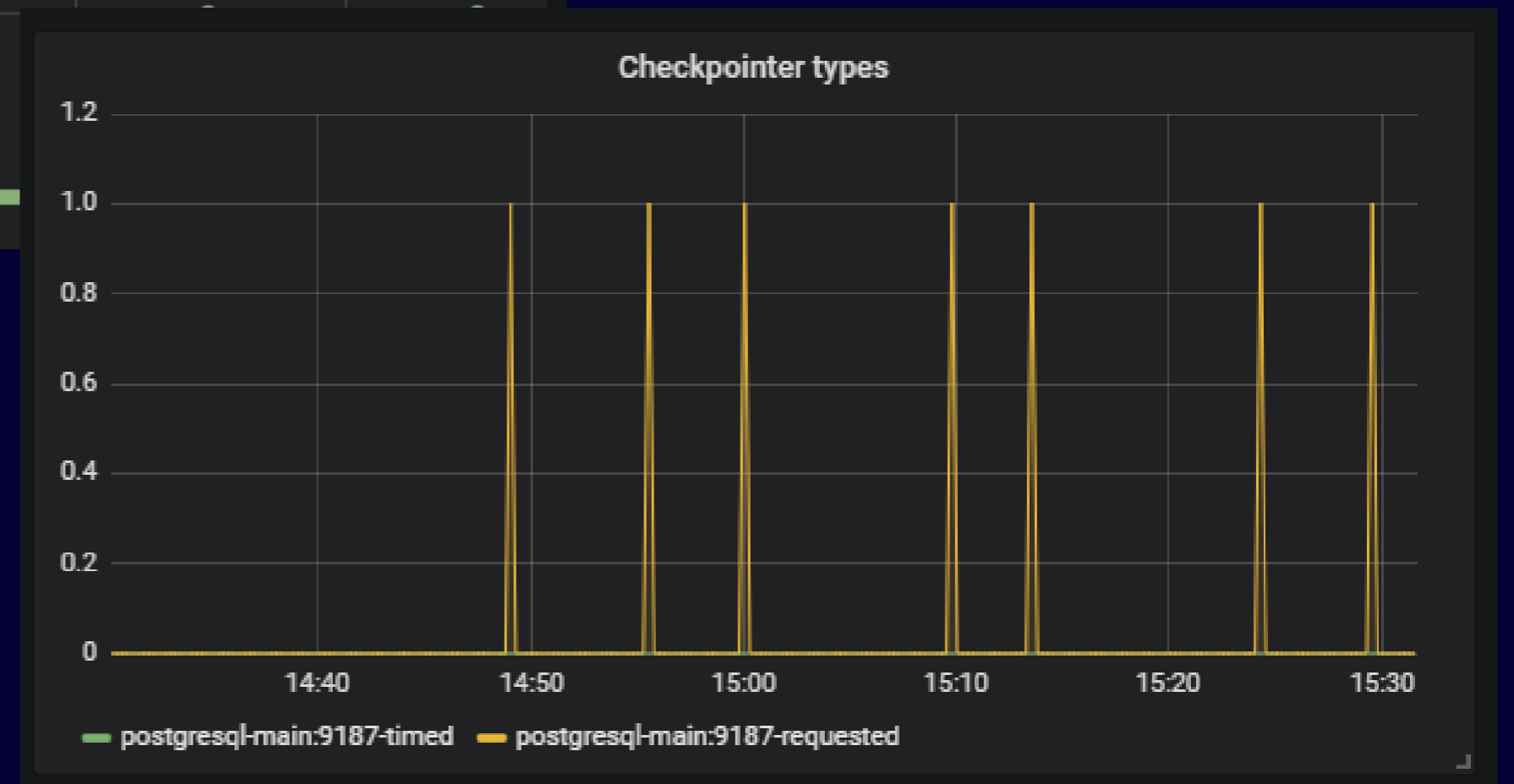
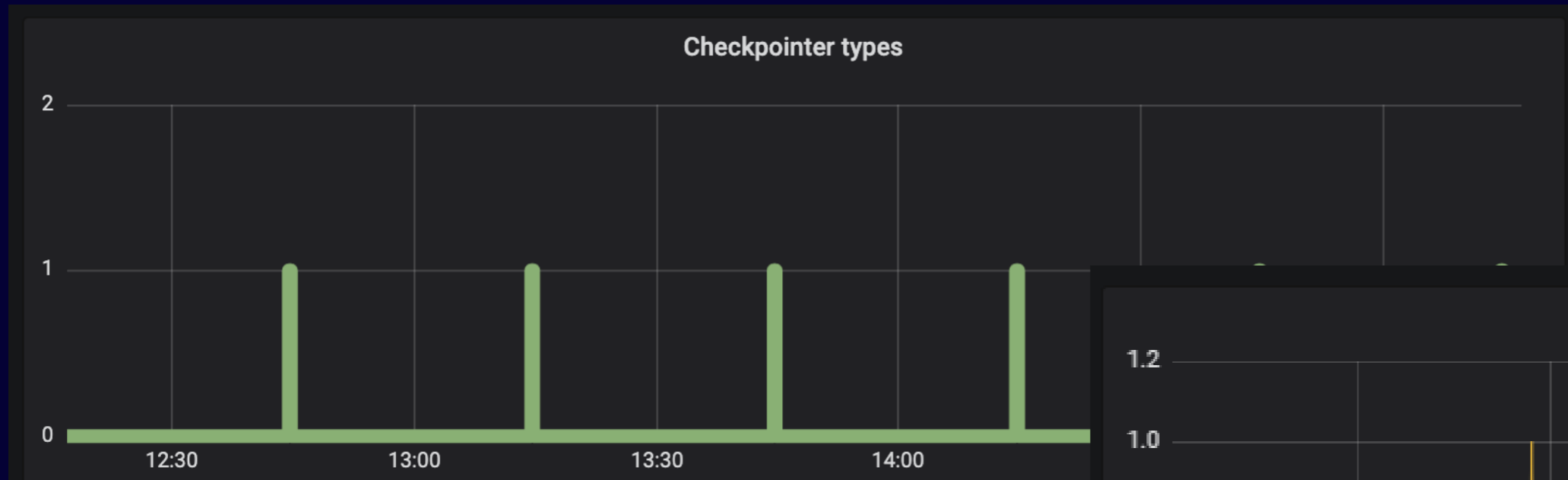
Увидеть причину легко, глядя на iowait



Причины: vassim не отработал ни разу



Причины: Checkpointer срабатывал хаотично не по времени, а по размеру WAL лога



Dump + Logs ->

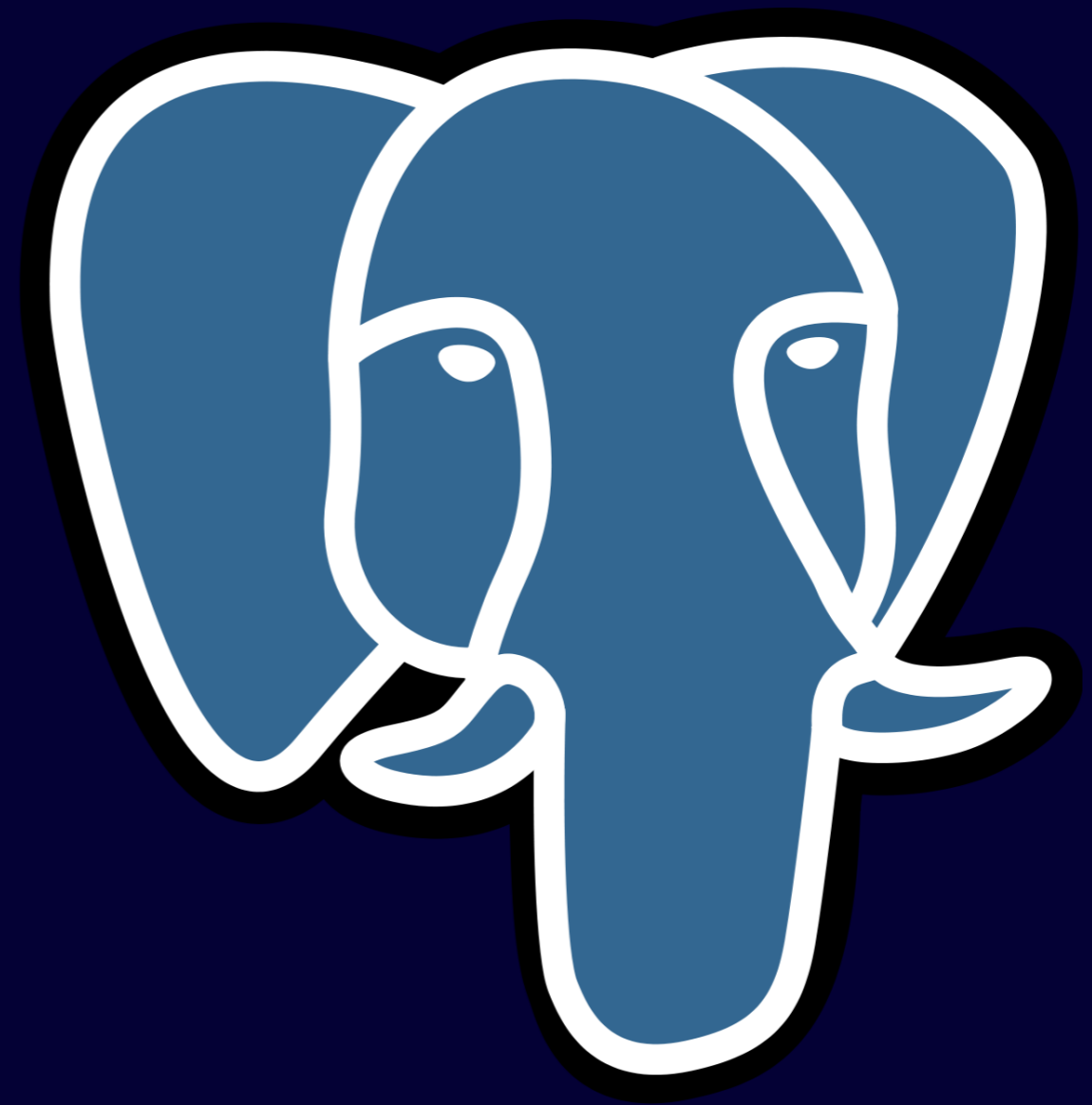
pg_replay

pg_fouine

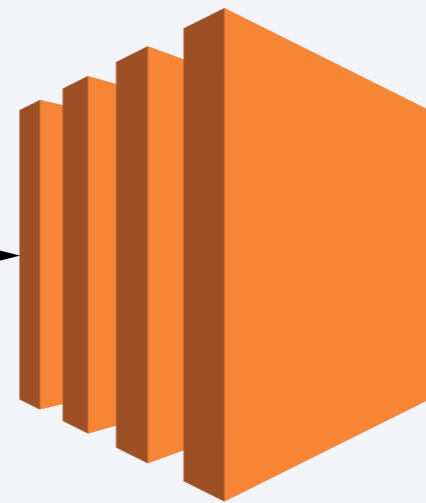
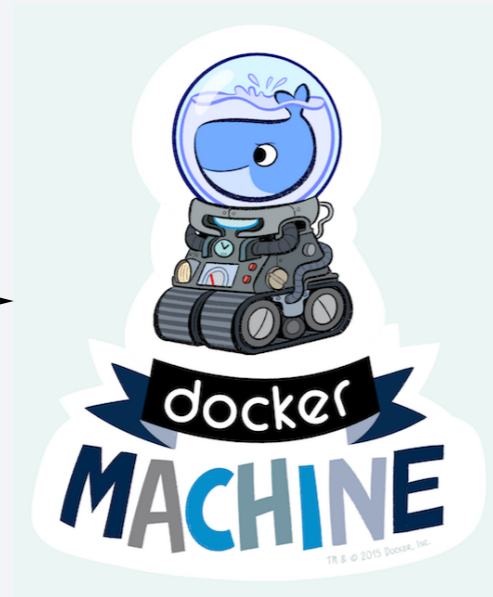
pg_bench ->

nanci_cli

miro



Nanci cli



AWS ec2



docker



[pgbadger](#)

Проблема

Где взять логи для сценария?

miro



Наше решение

Запустить нагрузочный тест, который даёт реалистичную нагрузку

Требование для сценария

- Нужная интенсивность работы с базой (TPS)
- Соотношение чтение/запись
- Неравномерная работа с базой, есть пики
- Сценарий работает НЕ с мусорными данными

Подготовка сценария нагрузочного теста

Аналитика использования сервиса, не базы

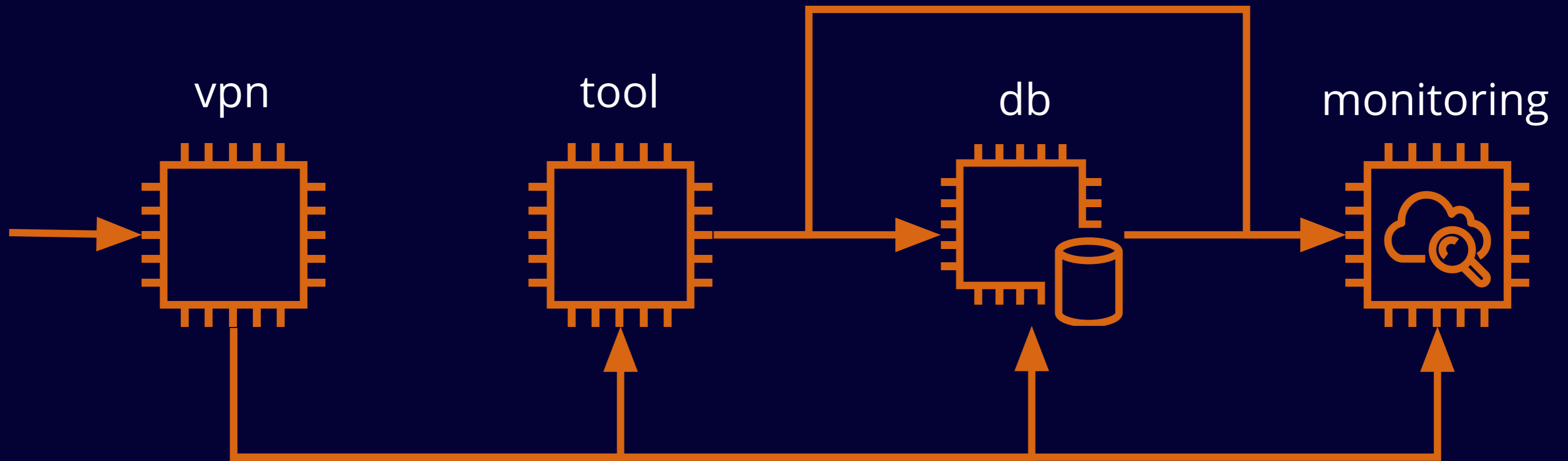
Профиль нагрузки



Как?

Помогут выделенные блоки,
дающие эффективную нагрузку

Marucy tool



miro

Marusy tool

Создать инстансы — terraform

Сконфигурировать их — ansible

VPN

~~vpc, vpn, gw, security group, routes~~

miro

db_instance

pg_...

nanci cli

node_exporter

miro

db_data

Postgres

node_exporter

postgres_exporter

miro

monitoring

prometheus

grafana

miro

monitoring - reports

pgbadger

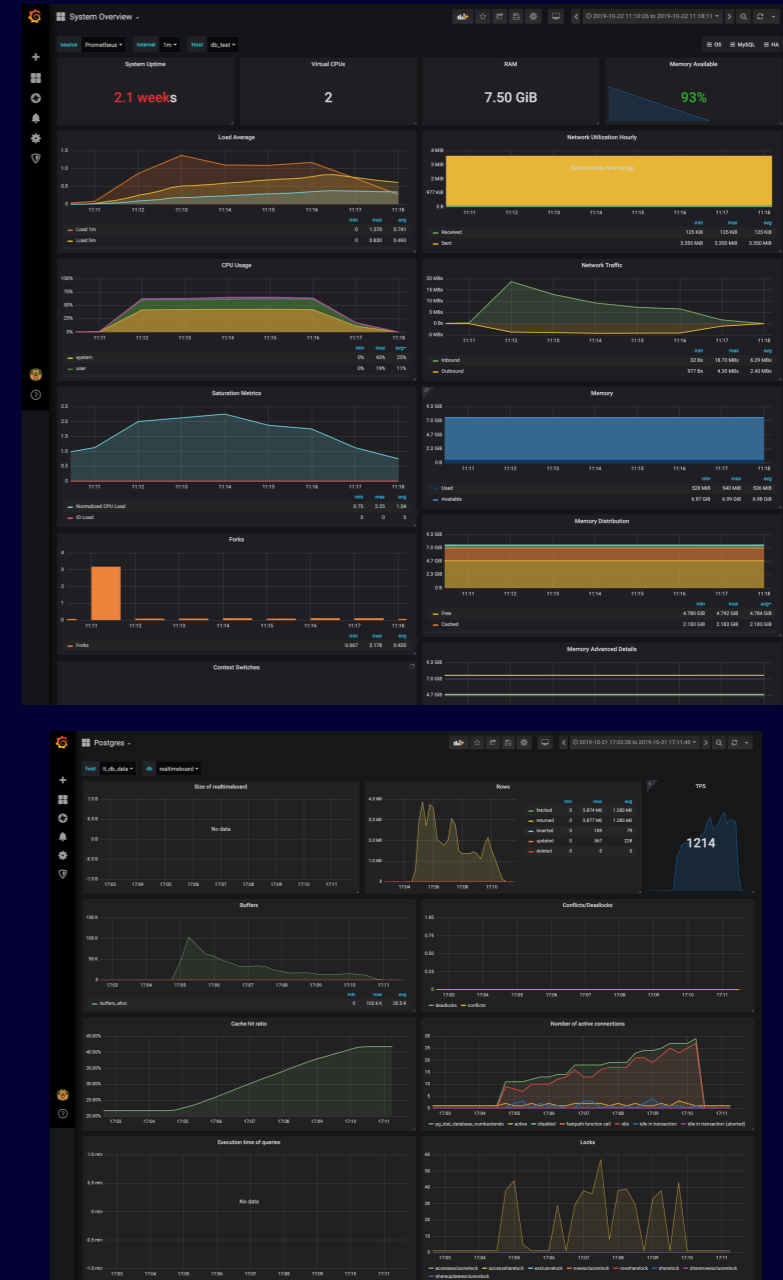
+

custom

miro



+



Run

```
pgreplay -r -h <host> -W <password> -s 2
```

```
test.replay
```

```
pgreplay -r -h <host> -W <password> -j
```

```
test.replay
```

miro

Nancy vs Marusy

- Не конфигурируется
- Создаётся\удаляется инстанс на каждый запуск
- Только база в докере+pgbadger
- Удобно конфигурируется
- Создаётся и удаляется, когда необходимо
- Любой мониторинг и инфраструктура

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<https://habr.com/ru/company/miro/>

