

# Build Interactive, Observable & Unified dashboards for your Projects

12<sup>th</sup> March 2026



Grafana Labs



DecompileD

# Presenter



**Syed Usman Ahmad**  
**Staff Developer Advocate**

# About Me

What I do?

My previous roles?

What I do beside work?

↘  
[linkedin.com/in/usmanlinux/](https://www.linkedin.com/in/usmanlinux/)

 [youtube.com/@freelinuxtutorials](https://www.youtube.com/@freelinuxtutorials)



# From your dailys

Issues Pull requests Labels Milestones Filters is:open is:issue New Issue

104 Open 9,660 Closed Author Labels Milestones Assignee Sort

- .form-group-sm .form-group-lg shrink textarea** confirmed css  
#13989 opened 11 hours ago by limitstudios v3.2.1
- Tooltip unnecessarily breaks into multiple lines when positioned to the right** confirmed js  
#13987 opened 15 hours ago by hnrch02 v3.2.1
- Tooltip Arrows in Modal example facing wrong way** css  
#13981 opened a day ago by SDCere
- Table improvement** css  
#13978 opened a day ago by TJoosten
- docs/dist files** docs  
#13977 opened 2 days ago by XhmikosR v3.2.1
- Potential solution to #4647** js  
#13976 opened 2 days ago by julioarmandof
- Bootstrap site: right-hand navigation text becomes rasterized after scrolling** css docs  
#13974 opened 2 days ago by mg1075 v3.2.1
- Dropdown toggle requires two clicks** js  
#13972 opened 2 days ago by Kizmar

Author Label Projects Milestones Assignee Sort

- Create a "Directives Overview" or similar topic** P3 comp: docs feature  
#40755 opened 2 hours ago by aikidave Backlog
- Make FormArray's inability to be treated as a regular Array more prominent in the docs** comp: docs comp: docs/api comp: forms  
#40753 opened 6 hours ago by ychalkin needsTriage
- bug(cdk-drag-drop): :enter / :leave animations are triggered incorrectly**  
comp: animations  
#40752 opened 9 hours ago by udos86 needsTriage
- The structural directive type check docs section is incomplete** comp: docs  
#40739 opened 2 days ago by ArielGueta needsTriage
- Provide usage examples for APP\_INITIALIZER token** comp: docs hotlist: community-help  
#40730 opened 3 days ago by AndrewKushnir needsTriage
- More precise type for APP\_INITIALIZER token** comp: core cross-cutting: types feature flag: breaking change hotlist: community-help  
#40729 opened 3 days ago by AndrewKushnir Backlog

Filters is:issue is:open Labels 19 Milestones 1 New Issue

133 Open 2,328 Closed Author Labels Projects Milestones Assignee Sort

- Jitter doesn't match for geom\_point() and geom\_line() unless data sorted**  
#3535 opened yesterday by wfulp
- Suggestion: improve error message on wrong use of scale\_x\_datetime**  
#3533 opened 2 days ago by adisarid
- na.rm have no effect in geom\_col with position\_stack**  
#3532 opened 3 days ago by dracodoc
- Wrong x range when using coord\_cartesian() with zero range xlim and expand=FALSE**  
#3531 opened 4 days ago by wch
- Don't catch errors in Stat computations**  
#3528 opened 10 days ago by thomasp85

Issues Opened Issues Closed Releases

Stats

Commits 73

Releases 0

Table with columns: issue number, title, created\_at, repo, closed, author. Contains 6 rows of issue data.

Pull Requests

Pull Requests Created 110

Active Pull Requests 137

PR average open time 6.62 day

Active PR Open Time 3.56 week

Issues

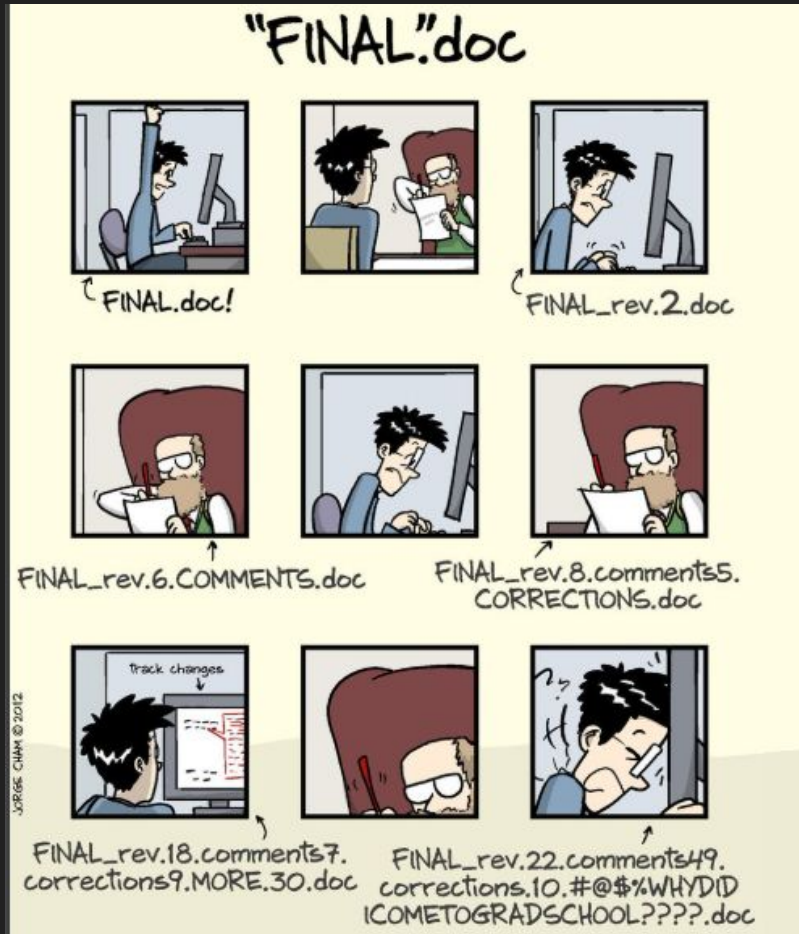
Issues Created 89

Active Issues 67

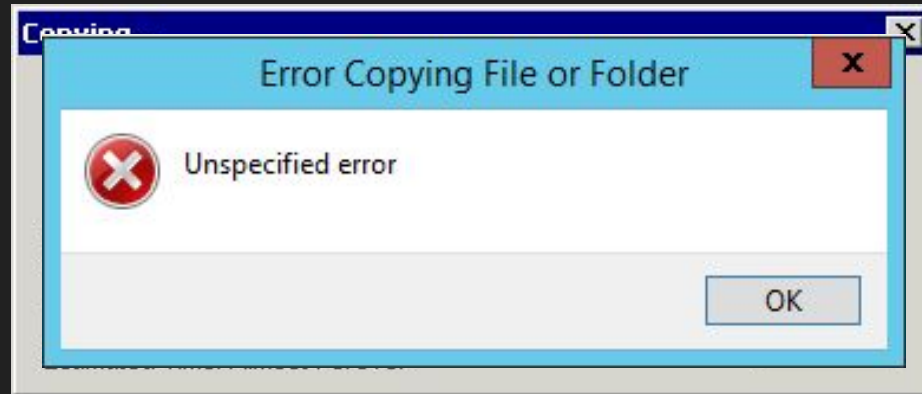
Issues Average Open ... No data

Issues Created in Mile... 1

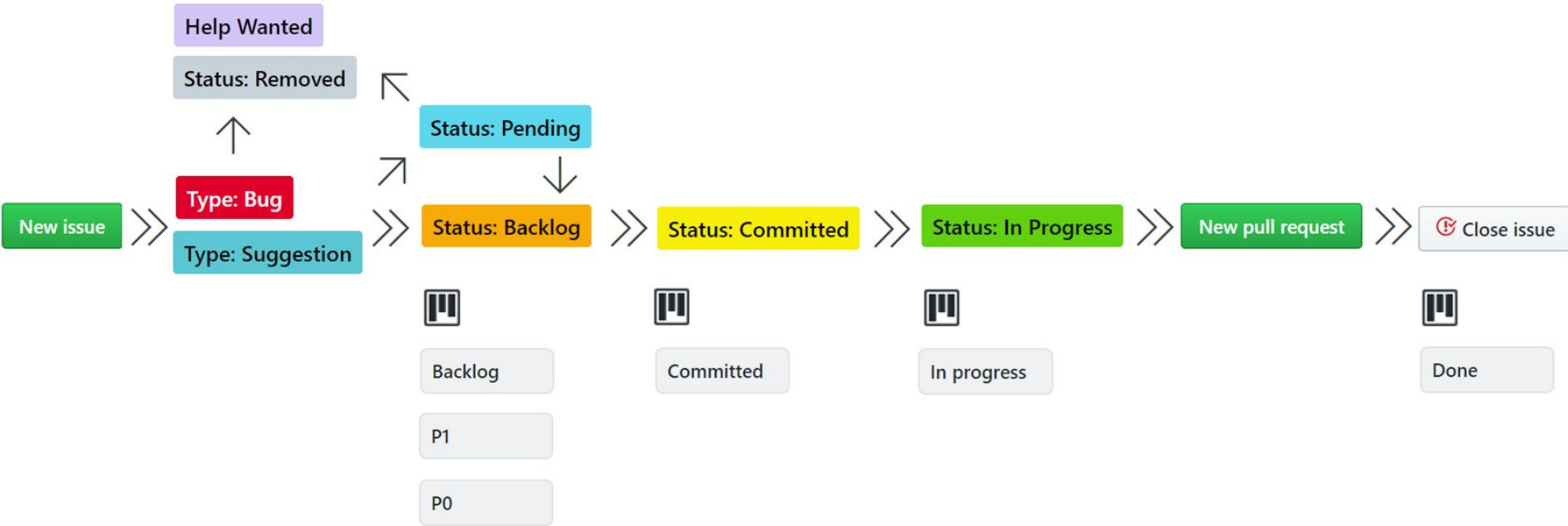
# Before Git



# Before Git



# GitHub Issues (Lifecycle)





Memory / CPU



logins



timeshift -1h

Memory



Logouts



Sign ups



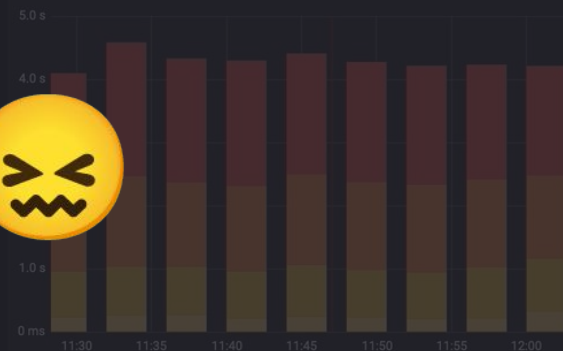
Sign outs



server requests



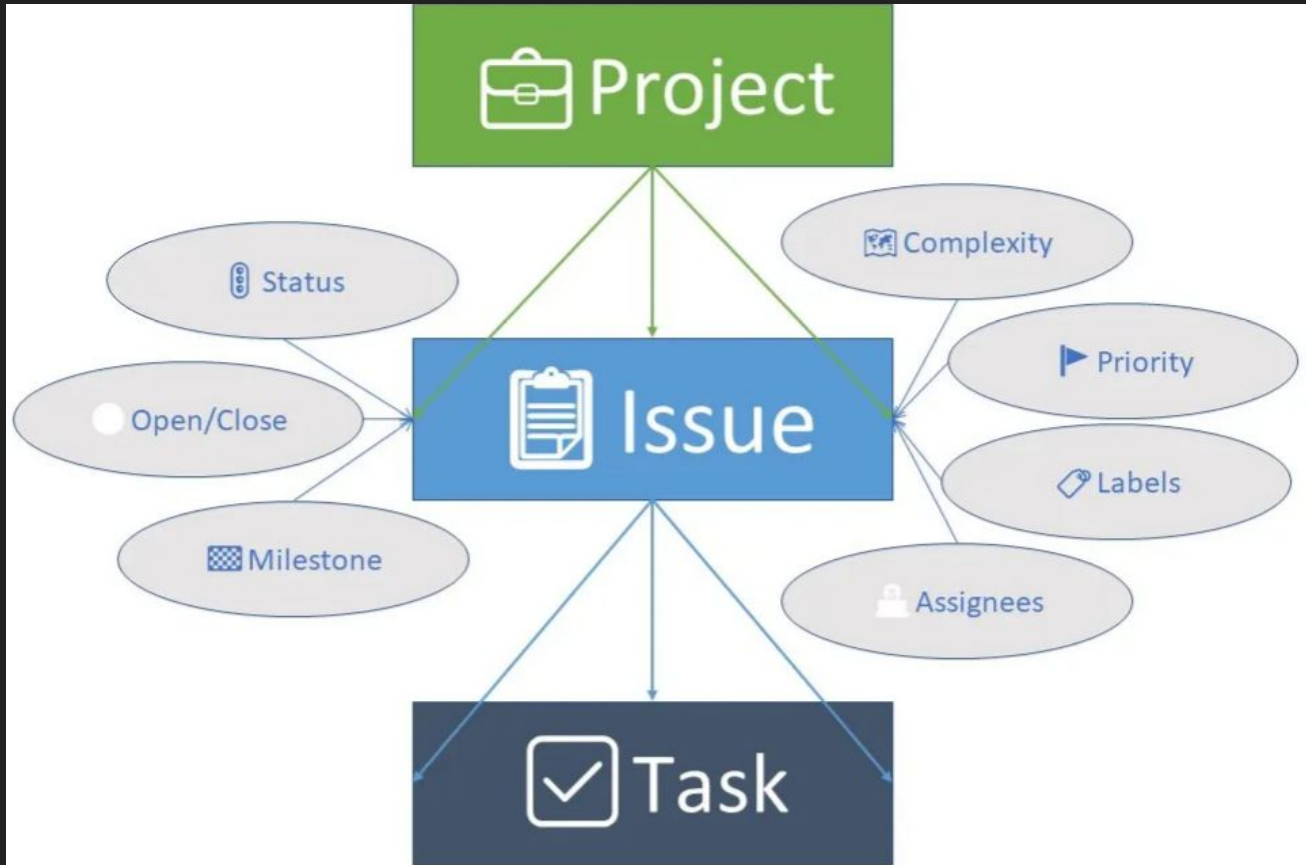
client side full page load



# Problems



# Working on Issues (Single repo.)



# Working on (Multi repo.)

Issues Pull requests Labels Milestones Filters is:open is:issue New Issue

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# Challenges: for Tech folks



2019-06-12 11:46:24  
web\_server\_01: 0.00  
web\_server\_02: 31.20  
web\_server\_03: 63.65  
web\_server\_04: 94.70



**Ownership**

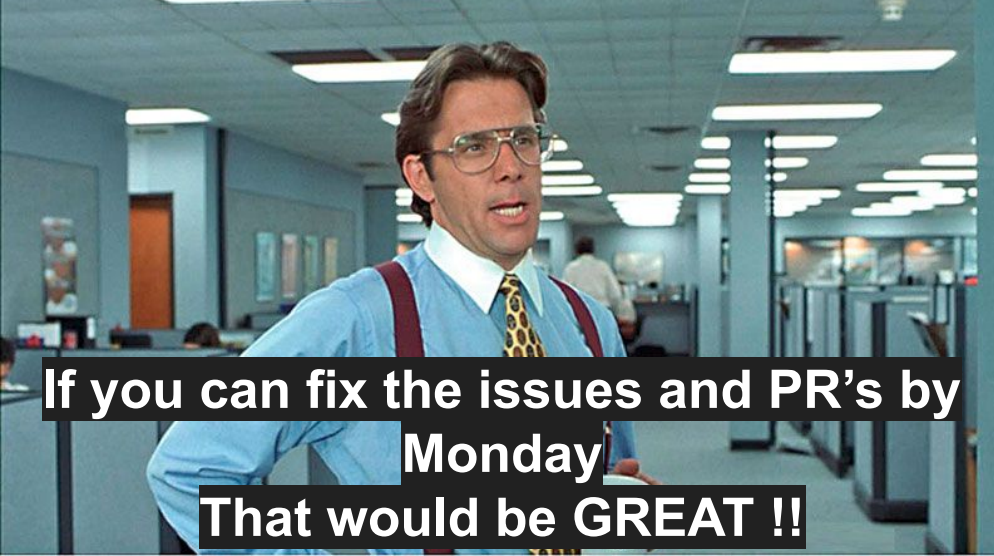
**Lack of Visibility  
+  
No  
Centralized View**

**Complexity  
grows  
exponentially**

**Decision  
Making**

**Deadlines**

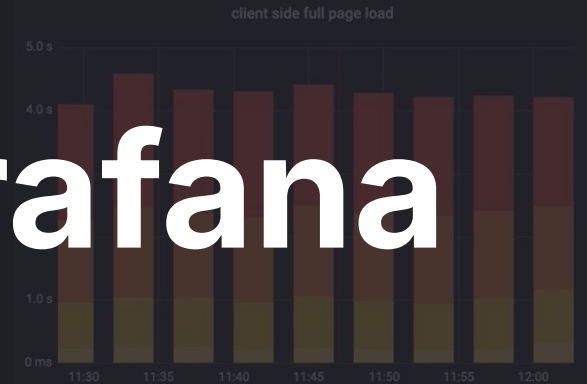
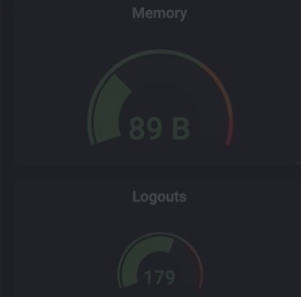
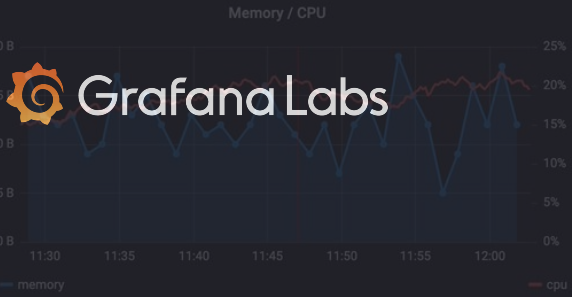






**Its Performance Review Time !!**








# Introducing Grafana



# Using Grafana

- 1 Available on all Platforms 
- 2 Support various Visualisation formats 
- 3 Only need a Data source 



# Does Grafana means Prometheus?



# A Glimpse of Grafana Ecosystem

ORACLE®



JAEGER



elasticsearch



Amazon Cloudwatch



PostgreSQL



MySQL



Google Cloud



influxdata



Prometheus



Thanos



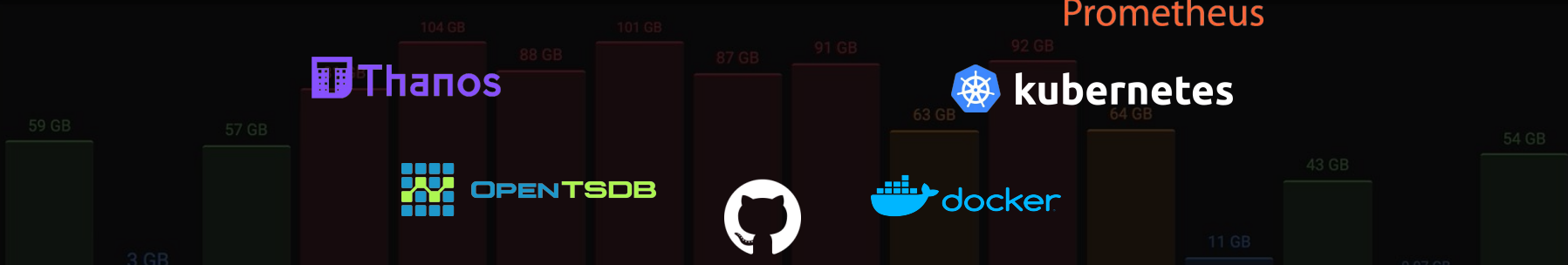
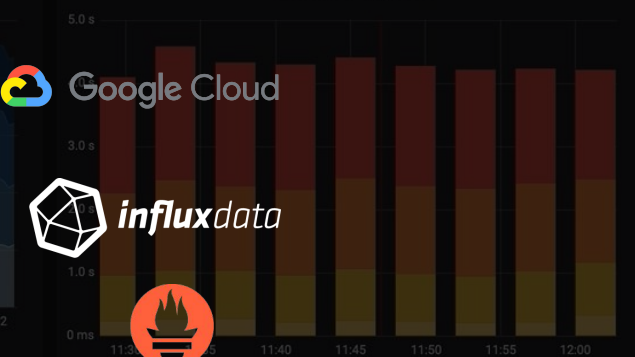
kubernetes



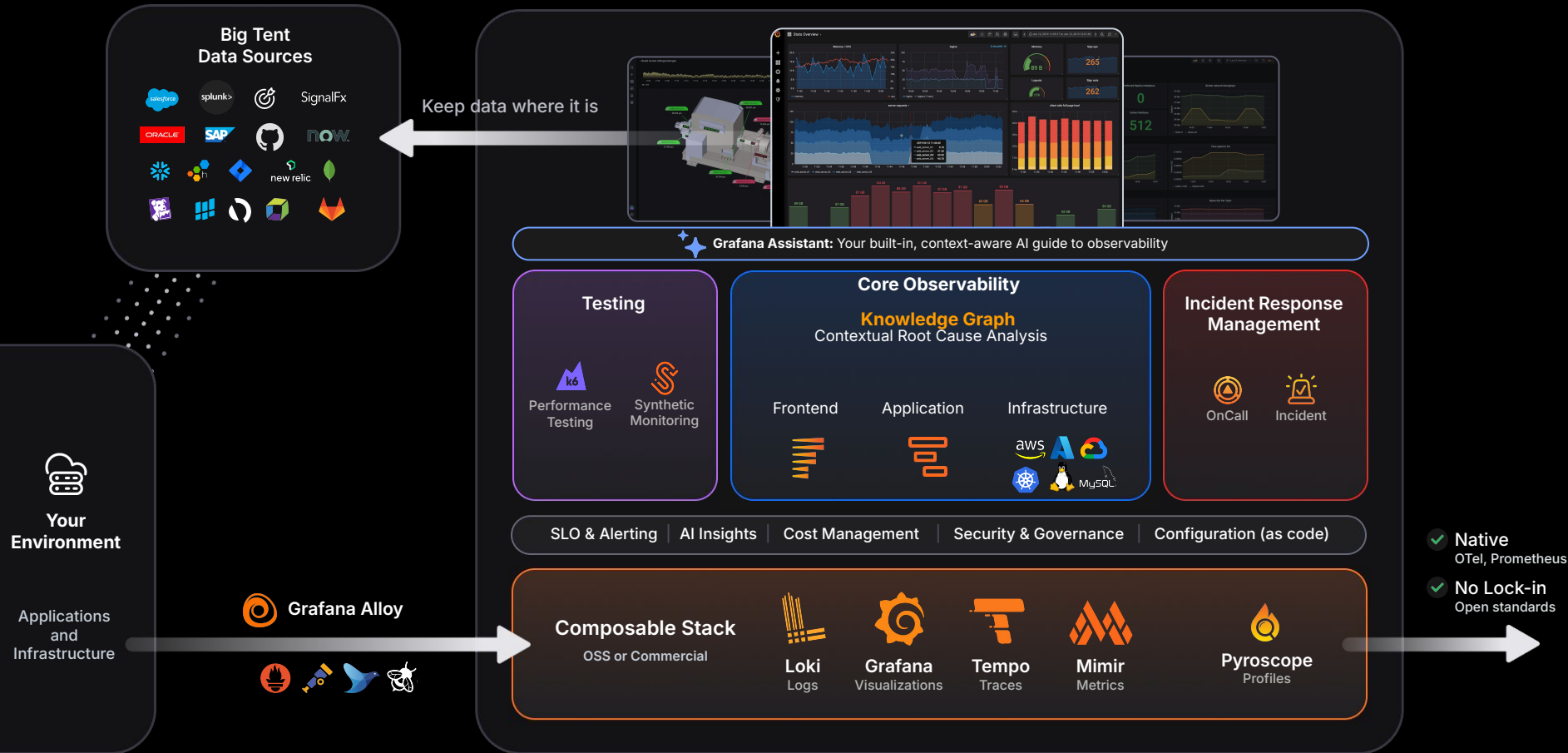
OPENTSDDB



docker



# Your open and composable observability stack





Memory / CPU

logins

timeshift -1h

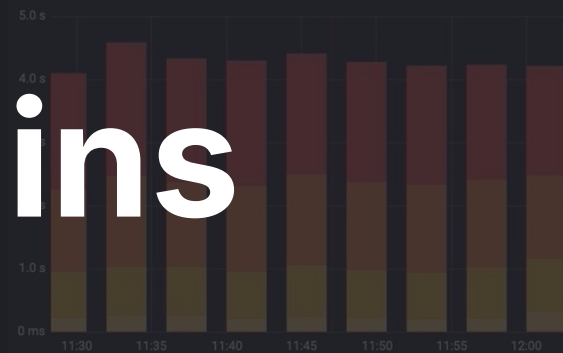
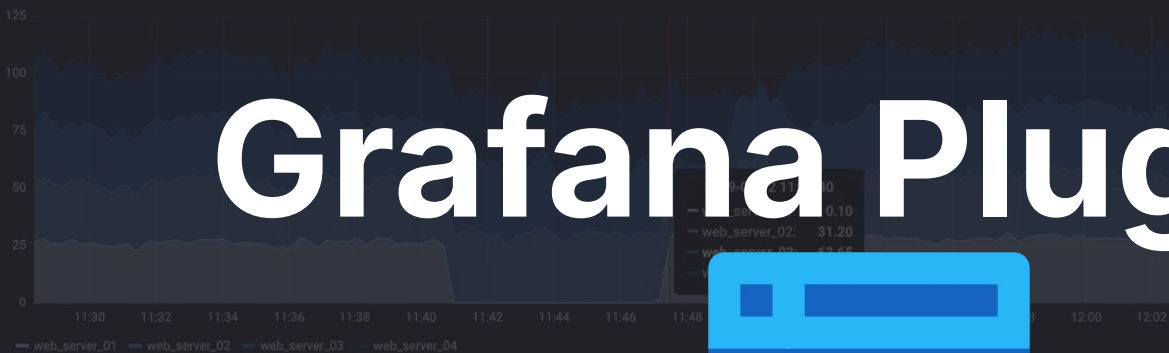
Memory

Sign ups



server requests


client side full page load



# Grafana Plugins

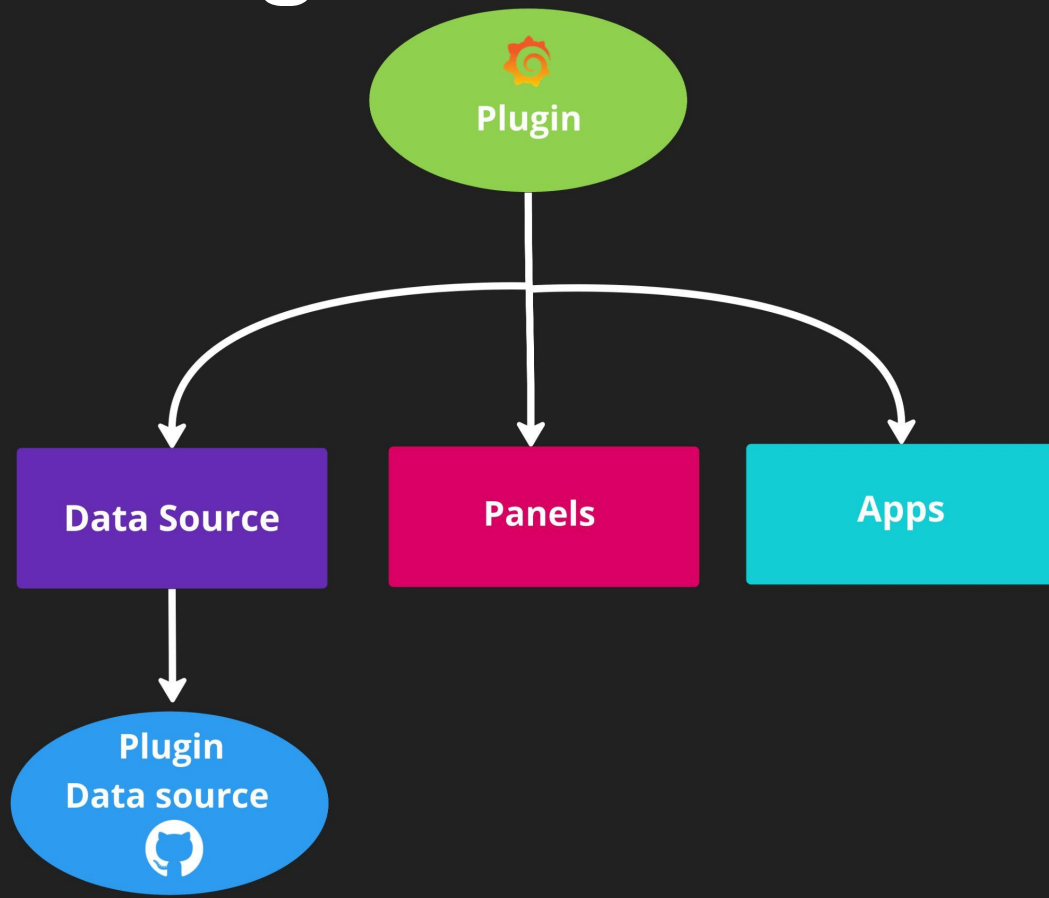


# Grafana Plugins

- 1 Connect & view the data
- 2 Built-in inside the core
- 3 Easy to setup & Configure 



# Grafana Plugin Breakdown





# Grafana GitHub Data source Plugin



# GitHub data source Plugin

- 1 Available in all Grafana versions
- 2 Support various Visualisation formats
- 3 Easy to Setup & Integrate



# GitHub data source Features

1

## Backend

- Releases, Commits
- Repositories, Organizations
- Stargazers, Milestones
- Issues, Labels
- Projects, Workflows, Deploys

2

## Frontend

- Visualize queries
- Template variables
- Annotations





# Configuring the data source



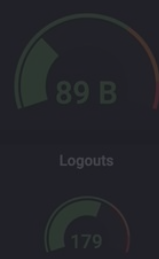
# 2 Step process

Install  using the  
 plugin catalog



Configure  API Key

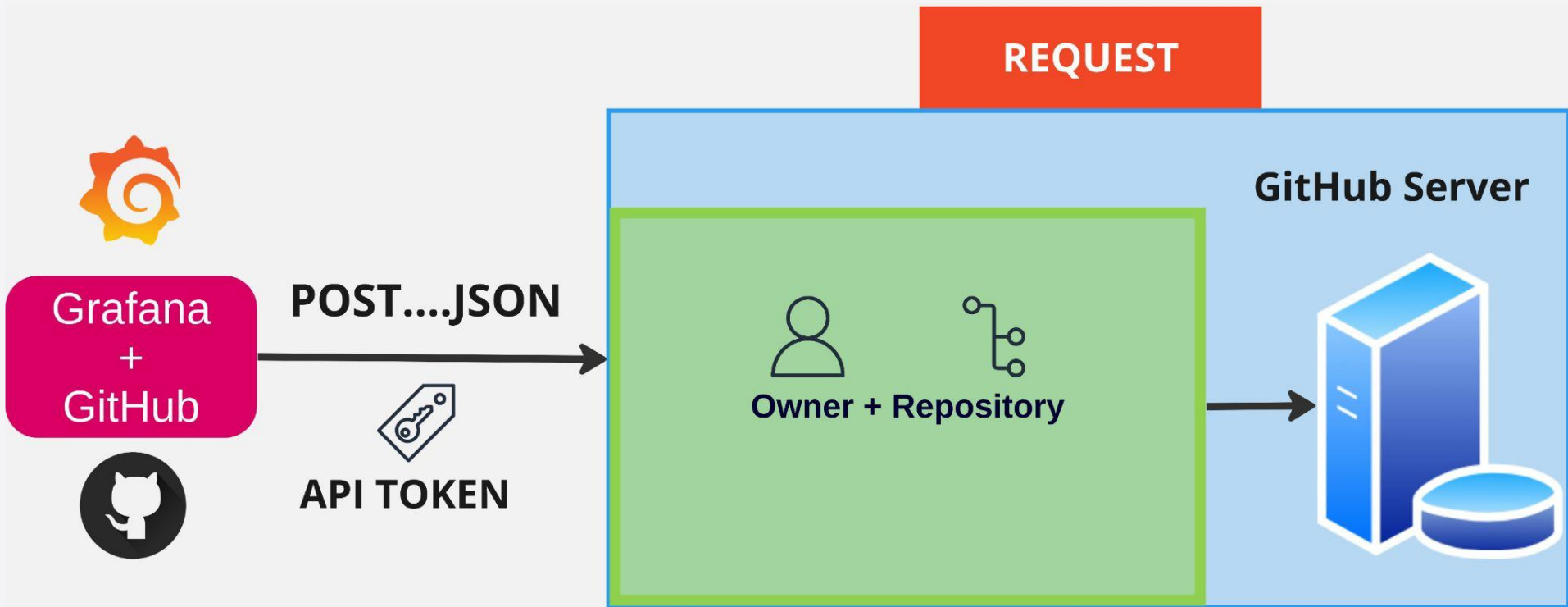
Grafana Labs



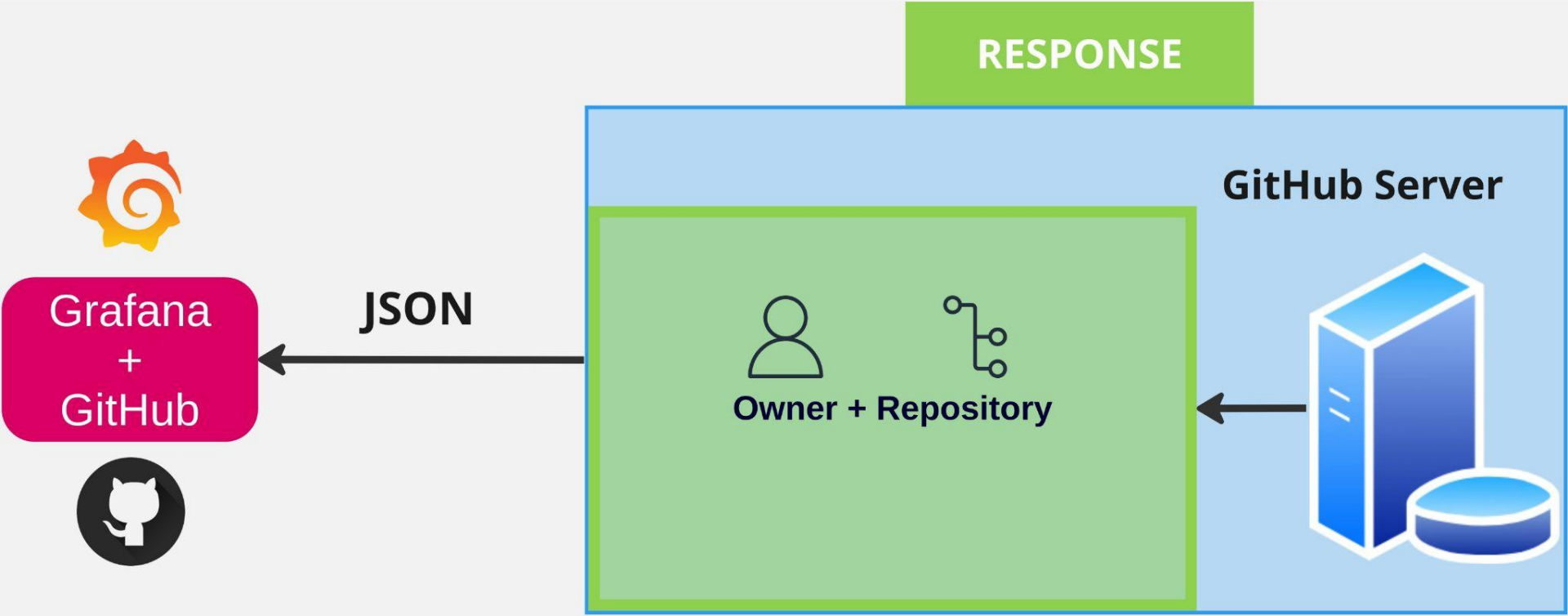
# How is it going to work?



# Sending Request

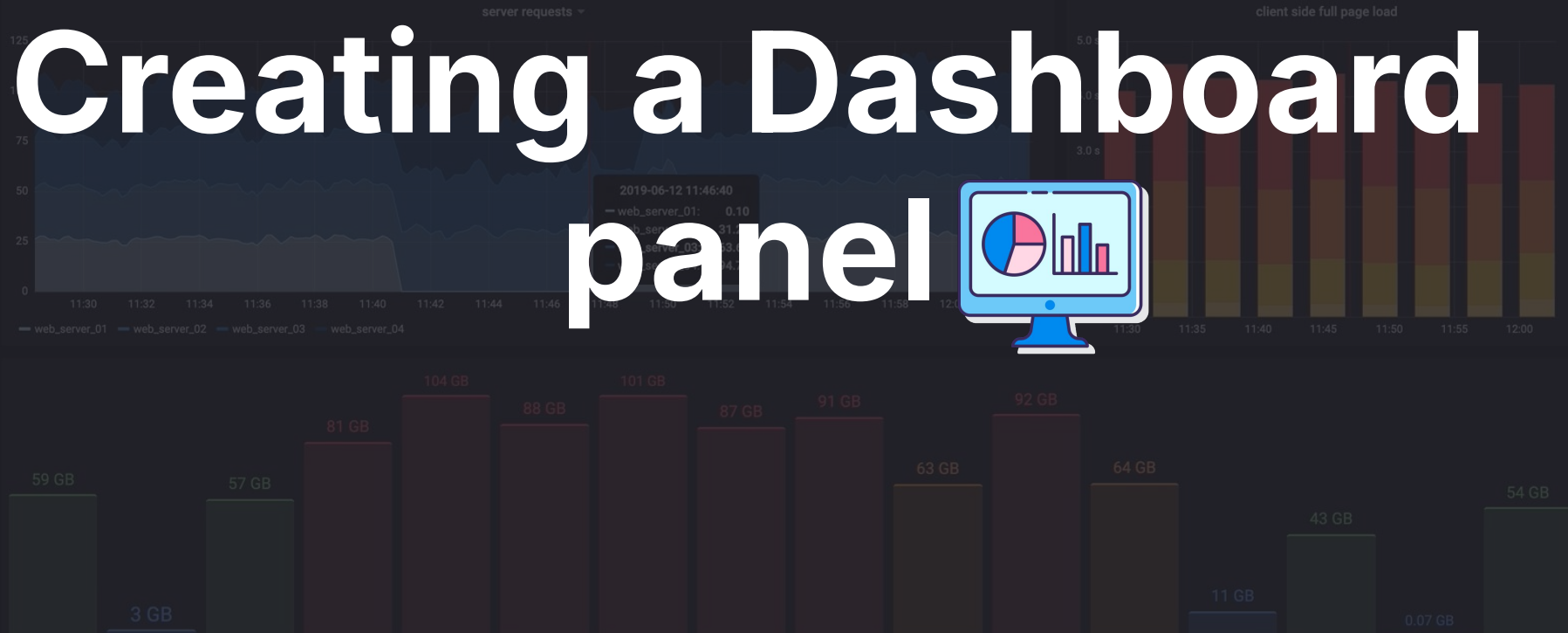


# Receiving Response





# Creating a Dashboard panel



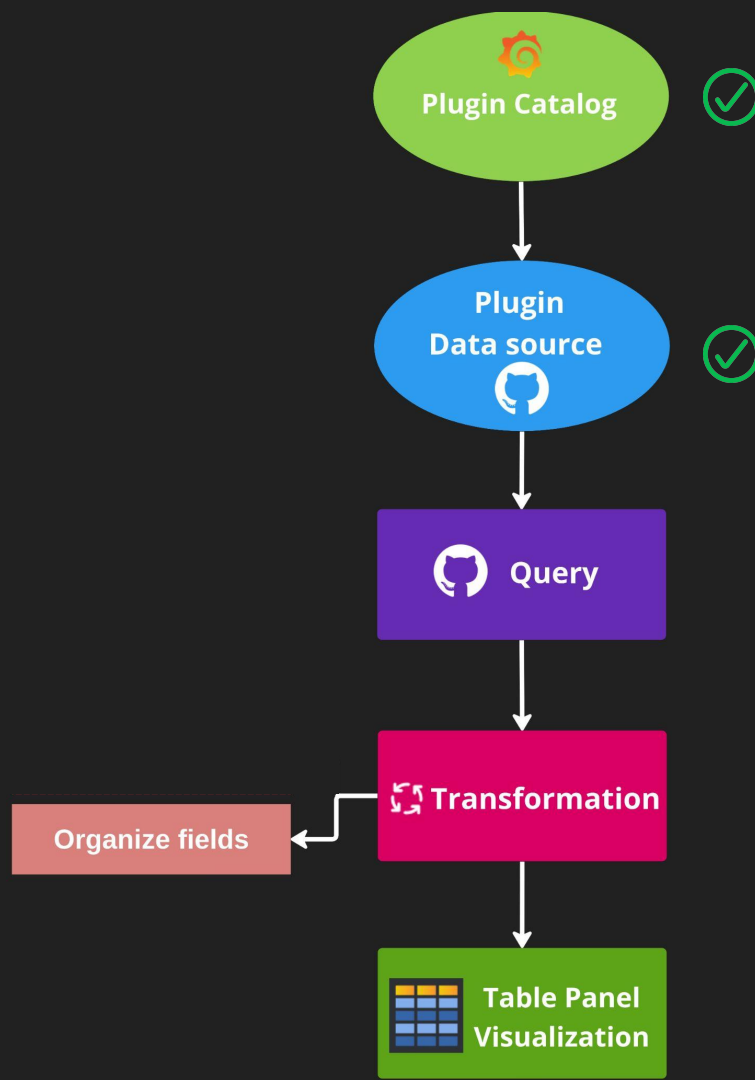


Table view

Fill

Actual

Last 12 hours



Basic Table Panel view ⓘ

title	author	author_company ↑	repo	number	closed	created_at	clo
Alerting Provisioning: Importing JSON not	PhilippHomann		grafana/grafana	85229	false	2024-03-27 09:56:19	
Missing option in settings file	PhilippDehner		grafana/grafana	85227	false	2024-03-27 08:51:33	
Tooltip: Tooltip isn't hidden when `Series -	baldm0mma		grafana/grafana	85220	false	2024-03-26 23:49:29	

Query 1 Transform data 0

Data source GitHub: Grafana Repo ⓘ > Query options MD = auto = 1502 Interval = 30s

(GitHub: Grafana Repo)

Query Type ⓘ Issues

Owner ⓘ grafana Repository ⓘ grafana

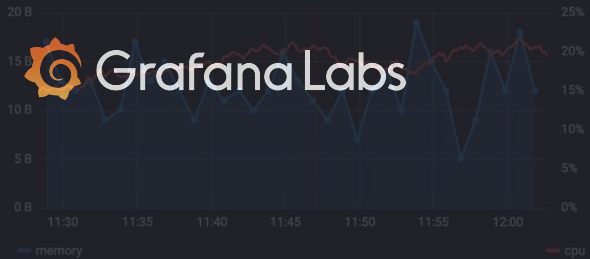
Query ⓘ

Time Field ⓘ CreatedAt

Query inspector



Memory / CPU



logins



timeshift -1h

Memory



Logouts



Sign ups



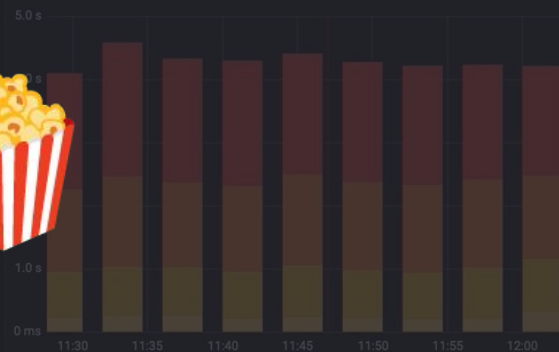
Sign outs



server requests



client side full page load



# Demo



59 GB

57 GB

81 GB

104 GB

88 GB

101 GB

87 GB

91 GB

63 GB

92 GB

64 GB

43 GB

54 GB

3 GB

11 GB

0.07 GB

Grafana Labs

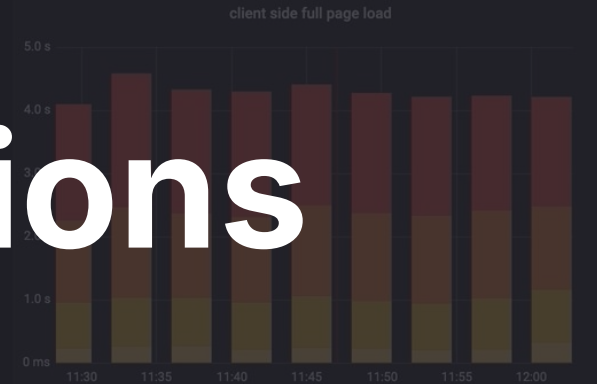
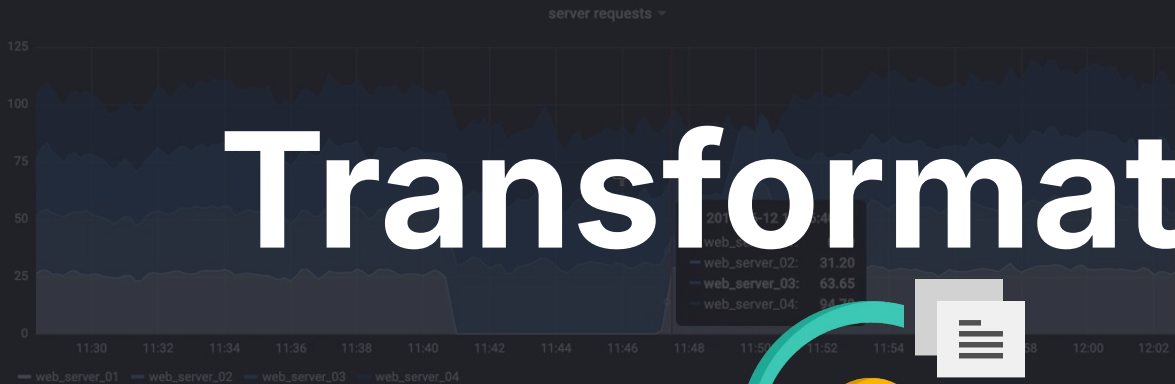
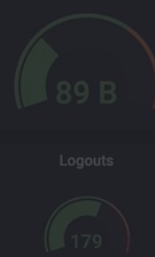
Memory / CPU

logins

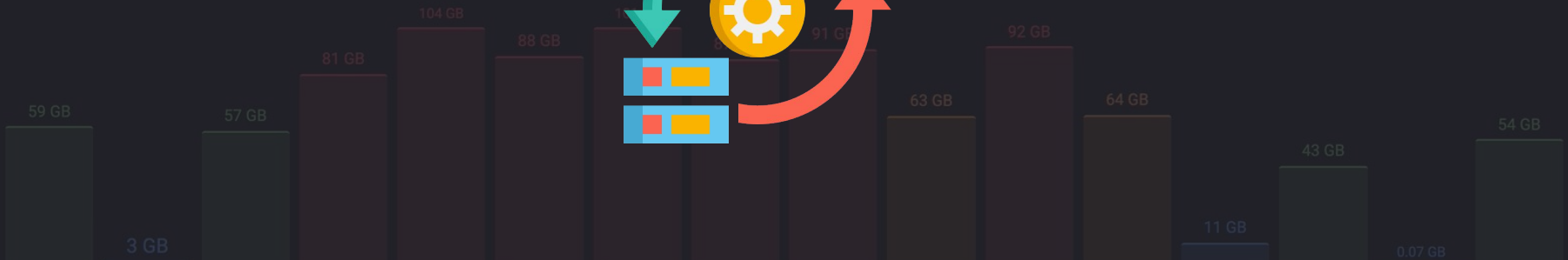
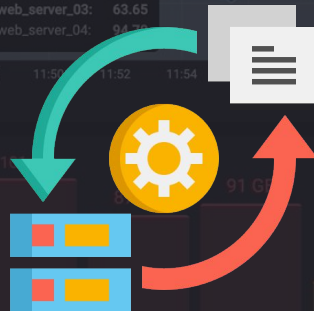
timeshift -1h

Memory

Sign ups



# Transformations



# Grafana Transformation

- 1 A powerful way to manipulate data
- 2 Happens before the visualization



# Transformation Types

Convert field type

Extract fields

Group by

**Organize  
Fields**

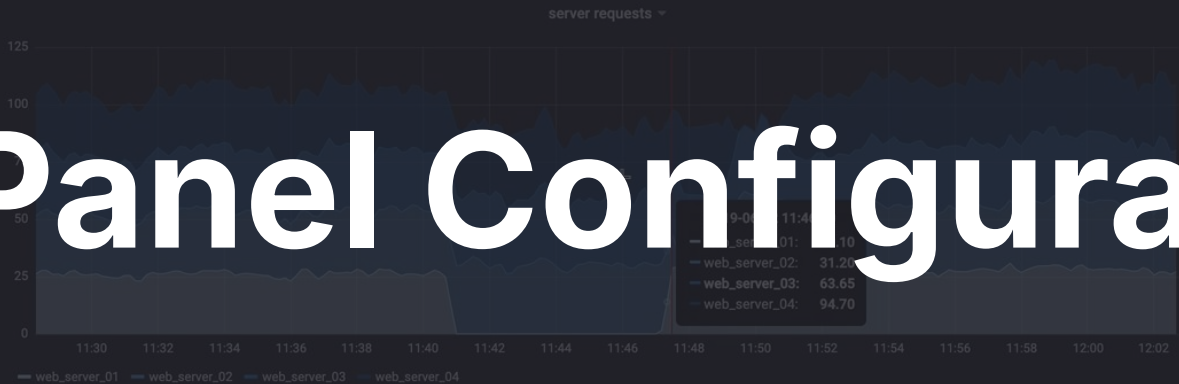
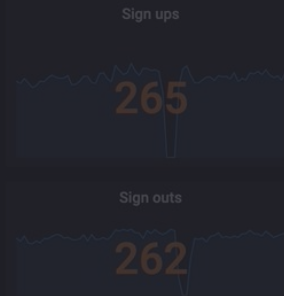
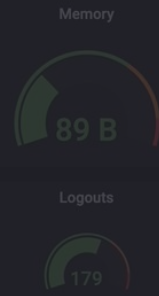
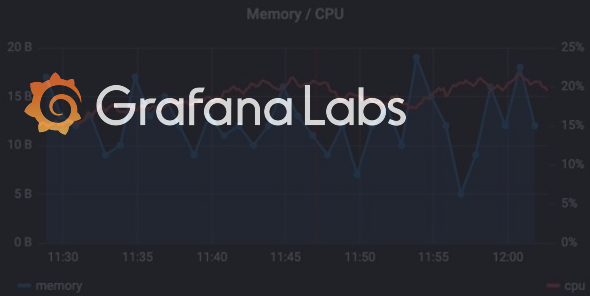
Sort by

Filter data

Format by

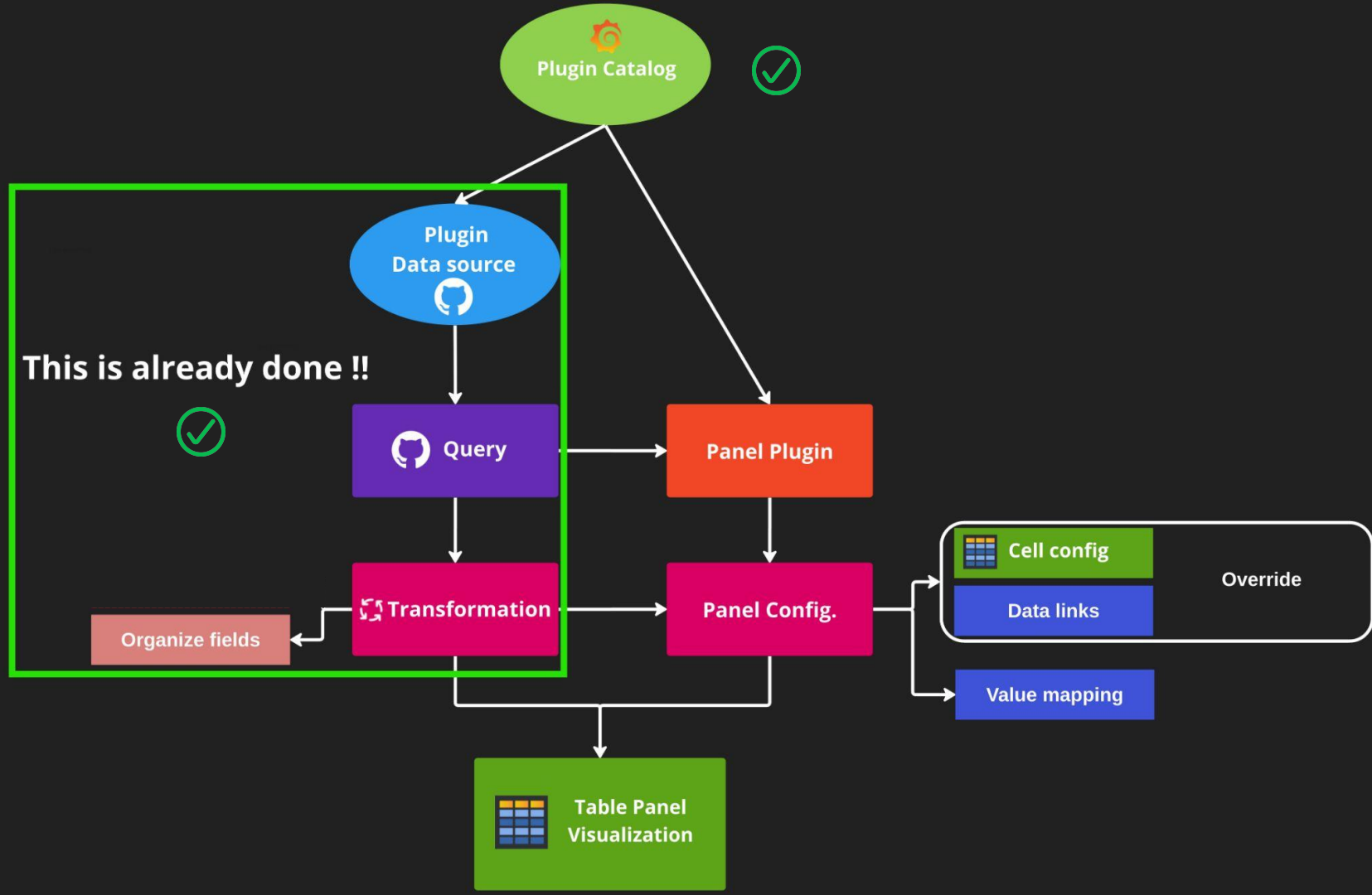
Rename by Regex

Reduce



# Panel Configurations





# Grafana Override Function

- 1 Allow you to customize visualization settings for specific fields or series
- 2 Lets you define multiple options for how that field is displayed



# Using Override - Cell type

## Using Overrides

issue number	title	created_at	repo	closed ↓	author	closed_at
85081	Add Reporting tab in scenes ShareModal	2024-03-25 15:38:39	grafana/grafana	true	juanicabanas	2024-03-25 20:36:57.000
85202	Explore/logsInfiniteScrolling: UI slowdown	2024-03-26 18:51:44	grafana/grafana	true	ddelemeny	2024-03-26 20:52:00.000
85066	Grafana: folder admin can not edit alert e	2024-03-25 12:19:35	grafana/grafana	false	mhulscher	
85067	Auth: allowed_groups not working for Goc	2024-03-25 12:24:36	grafana/grafana	false	Pionerd	
85069	DataSourceAPI: Add optional `queries` pa	2024-03-25 12:36:16	grafana/grafana	false	dprokop	
85070	AdHocFilters: Allow providing a free text	2024-03-25 12:43:58	grafana/grafana	false	dprokop	
85074	AdHocFilters: Allow picking multiple value	2024-03-25 13:31:18	grafana/grafana	false	dprokop	

# Using Override - Data links

Override 7 

Fields with type


 Number (1) 

✓ Data links 

Link to the issue  

`https://github.com/grafana/grafana/issues/${__data.fields["issue number"]}`

+ Add link

Edit link 

Title

Link to the issue

URL

`https://github.com/grafana/grafana/issues/${__data.fields["issue number"]}`

Open in new tab

Cancel Save

# Using Override - Data links

Using Overrides + Data Links

URL Link to the issue

issue number	title	created_at	repo	closed ↓	author
85081	Add Reporting tab in scenes ShareModal	2024-03-25 15:38:39	grafana/grafana	true	juanicabanas
85202	Explore/logsInfiniteScrolling: UI slowdown	2024-03-26 18:51:44	grafana/grafana	true	ddelemony
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85069	DataSourceAPI: Add optional `queries` pa	2024-03-25 12:36:16	grafana/grafana	false	dprokop
85070	AdHocFilters: Allow providing a free text	2024-03-25 12:43:58	grafana/grafana	false	dprokop

# Using Value mapping

Value mappings



Condition

Display text

Color



Value

false

in progress

● ×



Value

grafana/grafana

grafana-core

● ×



+ Add a new mapping

Cancel

Update

# Using Value mapping

Using Overrides + Data Links + Value Mapping

issue number	title	created_at	repo	closed	author
84807	Dashboard - extensions menu split into s	2024-03-20 12:49:59	grafana-core	in progress	sympatheticmoos
84808	Azure Monitor: Metric query for multiple	2024-03-20 12:55:14	grafana-core	in progress	goorallab
84818	Annotations are not shown in the panel e	2024-03-20 14:39:16	grafana-core	true	dprokop
84821	Dashboards: TB/TiB, GB/GiB Unit Conve	2024-03-20 14:56:54	grafana-core	true	reiverjohn
84824	VizTooltips: Switch data links display fro	2024-03-20 15:33:11	grafana-core	true	lukasztyrala
84829	Menu hiding when panel has no title	2024-03-20 16:18:07	grafana-core	in progress	natellium
84830	Panel menu not visible when panel has r	2024-03-20 16:18:11	grafana-core	in progress	natellium
84834	Scenes powered dashboards enhaceme	2024-03-20 16:23:18	grafana-core	in progress	natellium



# Dynamic Dashboard Variables



# Grafana Dashboard Variables

- 1 Also known as templating
- 2 Create interactive and dynamic dashboards
- 3 **NO** hard-coding !!



# Dynamic dashboard variables

Data source

Ad-hoc filters

Global variables

Interval

**Custom**

Constant

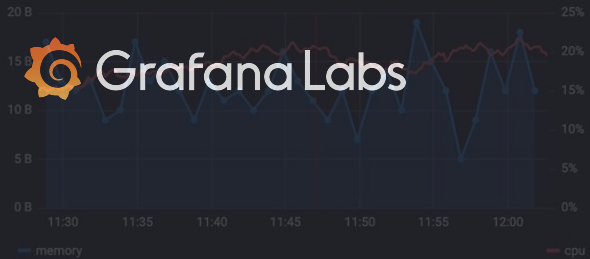
Chained variables

Query

Text Box



Memory / CPU



logins



timeshift -1h

Memory



Logouts



Sign ups



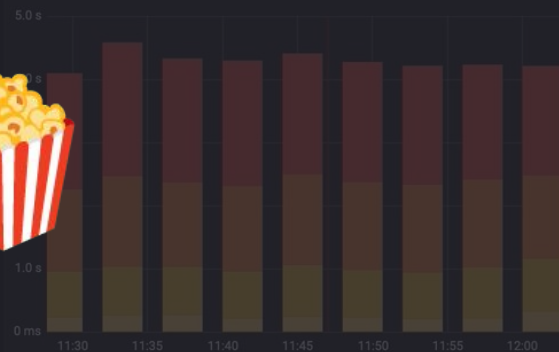
Sign outs



server requests



client side full page load



# Demo



59 GB

57 GB

81 GB

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88 GB

101 GB

87 GB

91 GB

63 GB

92 GB

64 GB

11 GB

43 GB

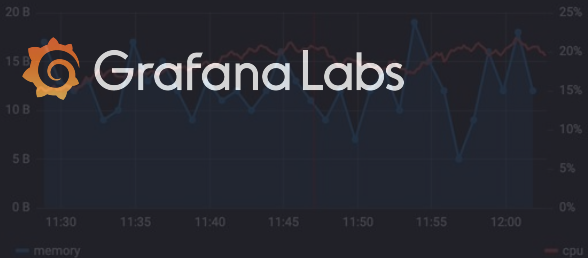
0.07 GB

54 GB

3 GB



Memory / CPU



logins



timeshift -1h

Memory



Logouts



Sign ups



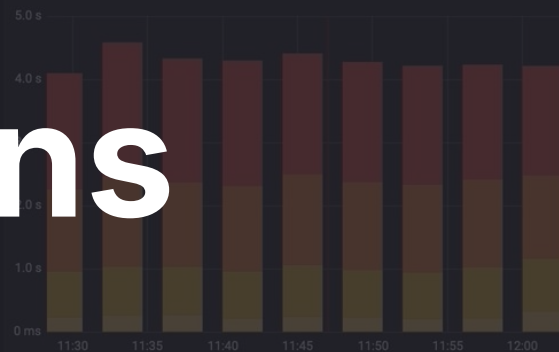
Sign outs



server requests



client side full page load



# Annotations



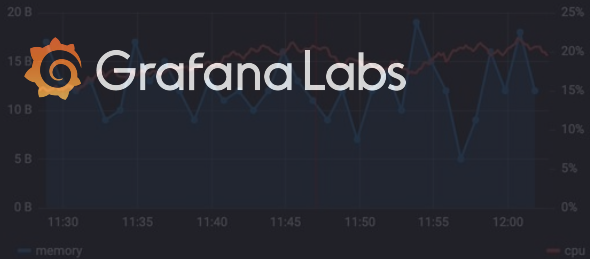
# Grafana Annotations

- 1 Mark points on a visualization with events
- 2 Visualized as vertical lines and icons
- 3 **NO** hard-coding !!





Memory / CPU



logins



timeshift -1h

Memory



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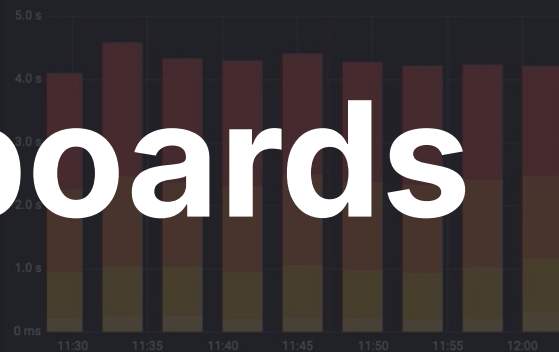
Sign outs



server requests



client side full page load



# Public Dashboards

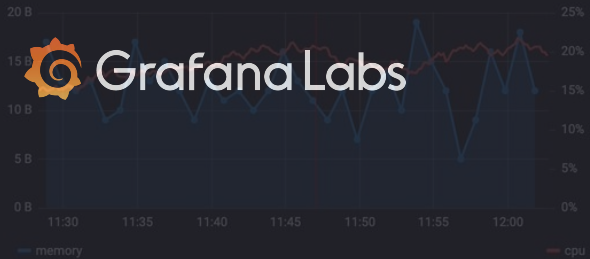
# Grafana Public Dashboards

- 1 Share with anyone
- 2 **Read-only (RO)** mode
- 3 User do not need any permission





Memory / CPU



logins



timeshift -1h

Memory



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Sign ups



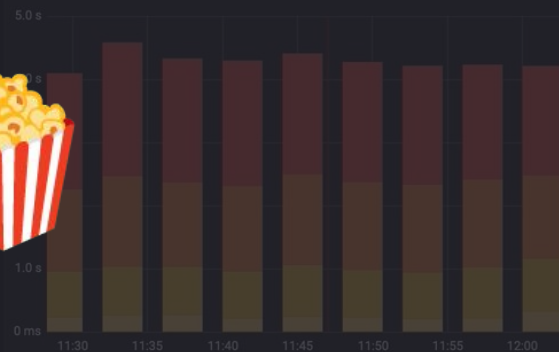
Sign outs



server requests



client side full page load



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57 GB

81 GB

104 GB

88 GB

101 GB

87 GB

91 GB

63 GB

64 GB

43 GB

54 GB

3 GB

11 GB

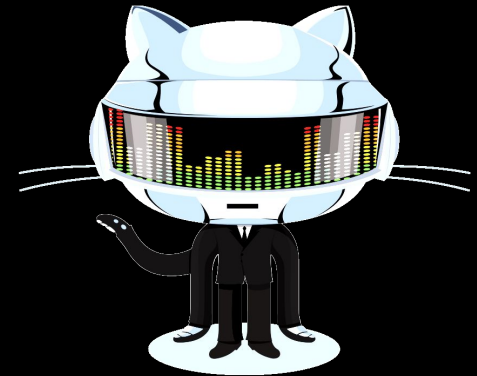
0.07 GB

# Takeaways

1 Centralized Visibility

2 Monitoring the Productivity

3 Collaboration & Transparency



# Future Improvements

- 1 Support Alerting
- 2 Time Series Data



**PROBLEM**

**SOLUTION**

**SUCCESS**



# Thanks for participating!

Contact me:



[usman.ahmad@grafana.com](mailto:usman.ahmad@grafana.com)



[linkedin.com/in/usmanlinux/](https://www.linkedin.com/in/usmanlinux/)

