

# Observe your GitHub repos Efficiently

10 Feb 2025



# Presenter



**Syed Usman Ahmad**  
Sr. Developer Advocate



# About me

**What I do?**

**My previous roles?**

**What I do beside work?**

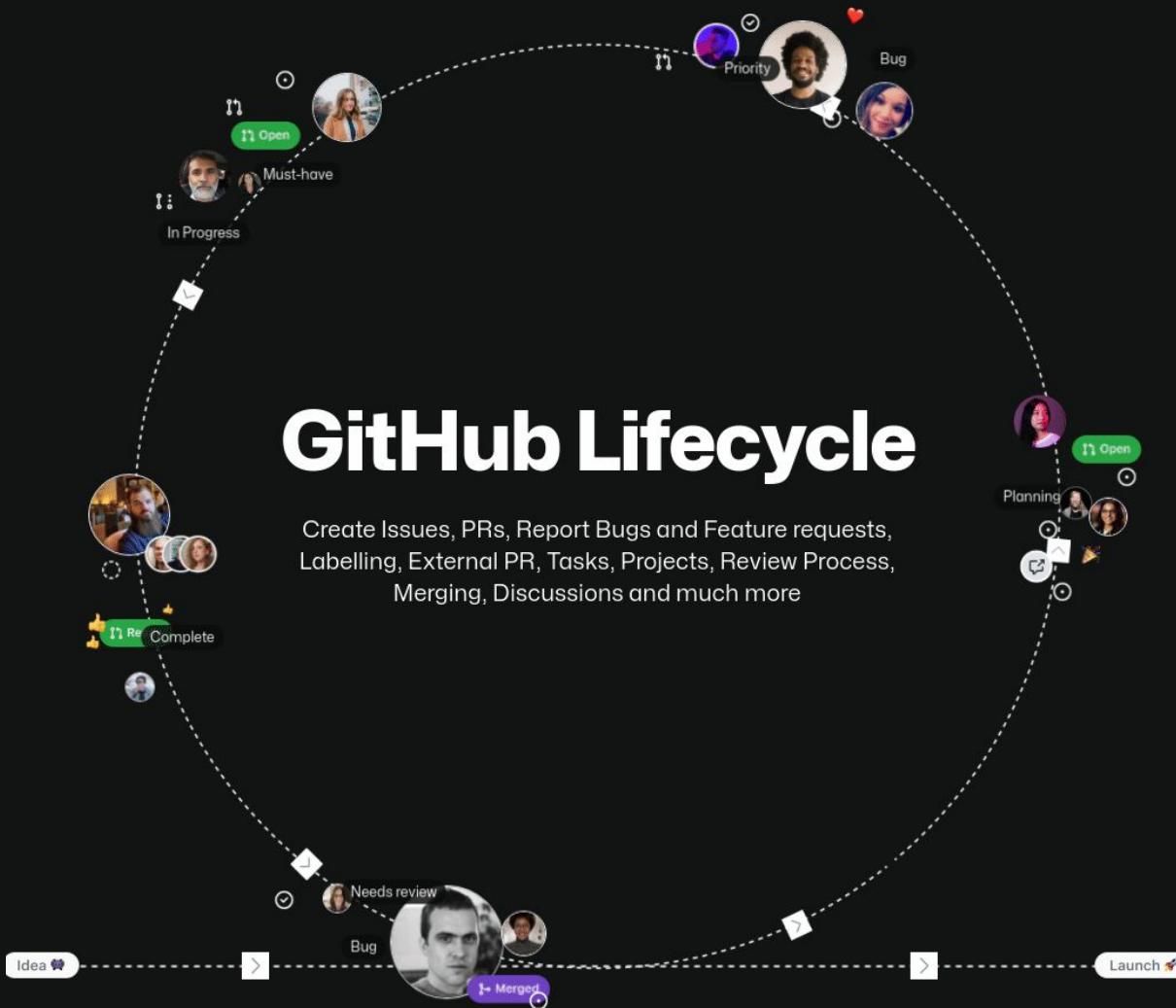


**[github.com/usmangt](https://github.com/usmangt)**

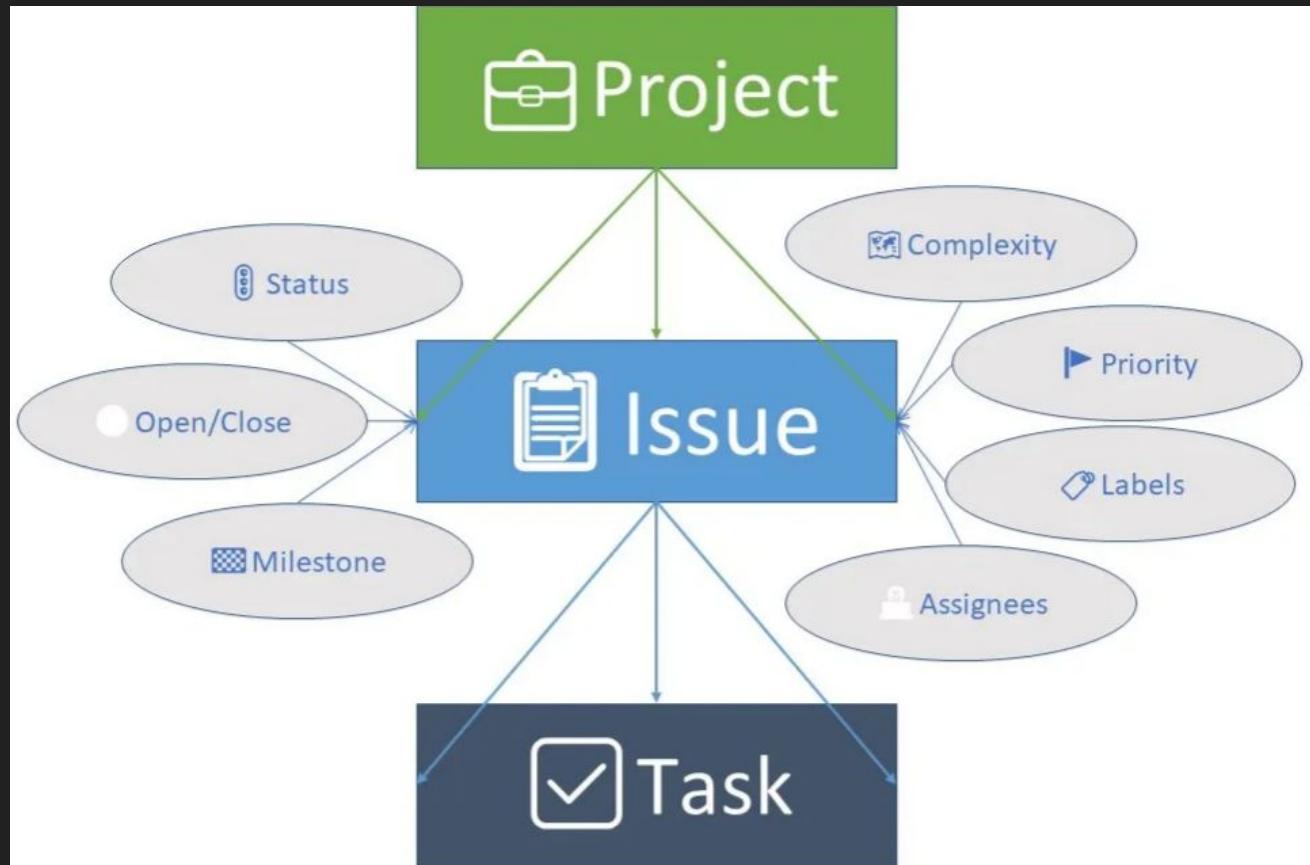


# GitHub Lifecycle

Create Issues, PRs, Report Bugs and Feature requests,  
Labelling, External PR, Tasks, Projects, Review Process,  
Merging, Discussions and much more



# Working on Issues (Single repo.)



# Working on (Multi repo.)

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

① 104 Open ✓ 9,660 Closed Author Labels Milestones Assignee Sort

① .form-group-sm .form-group-lg shrink textarea confirmed css  
#13989 opened 11 hours ago by limitstudios ↑ v3.2.1

① Tooltip unnecessarily breaks into multiple lines when positioned to the right confirmed js  
#13987 opened 15 hours ago by hrnch02 ↑ v3.2.1

① Tooltip Arrows in Modal example facing wrong way css  
#13981 opened a day ago by SDCore

① Table improvement css  
#13978 opened a day ago by Tjoosten

① docs/dist files docs  
#13977 opened 2 days ago by XhmikosR ↑ v3.2.1

① Potential solution to #4647 js  
#13976 opened 2 days ago by julioarmando

① Bootstrap site: right-hand navigation text becomes rasterized after scrolling css docs  
#13974 opened 2 days ago by mg1075 ↑ v3.2.1

① Dropdown toggle requires two clicks js  
#13972 opened 2 days ago by Kizmar

Author Label Projects Milestones Assignee Sort

① Create a "Directives Overview" or similar topic P3 comp: docs feature  
#40755 opened 2 hours ago by alkidave ↗ Backlog

① 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 ychaitkin ↗ needsTriage

① bug(cdk-drag-drop): :enter / :leave animations are triggered incorrectly comp: animations  
#40752 opened 9 hours ago by udos86 ↗ needsTriage

① The structural directive type check docs section is incomplete comp: docs  
#40739 opened 2 days ago by ArielGueta ↗ needsTriage

① Provide usage examples for APP\_INITIALIZER token comp: docs hostlist: community-help  
#40730 opened 3 days ago by AndrewKushnir ↗ needsTriage

① More precise type for APP\_INITIALIZER token comp: core cross-cutting: types feature  
flag: breaking change hostlist: community-help  
#40729 opened 3 days ago by AndrewKushnir ↗ Backlog

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

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

① Jitter doesn't match for geom\_point() and geom\_line() unless data sorted  
#3535 opened yesterday by wfulpf

① Suggestion: improve error message on wrong use of scale\_x\_datetime  
#3533 opened 2 days ago by adisarid

① na.rm have no effect in geom\_col with position\_stack  
#3532 opened 3 days ago by dracodoc

① Wrong x range when using coord\_cartesian() with zero range xlim and expand=FALSE  
#3531 opened 4 days ago by wch

① Don't catch errors in Stat computations  
#3528 opened 10 days ago by thomas86 ↗ 4



# Challenges: for Dev & Engineering Folks



**Tracking  
Progress**

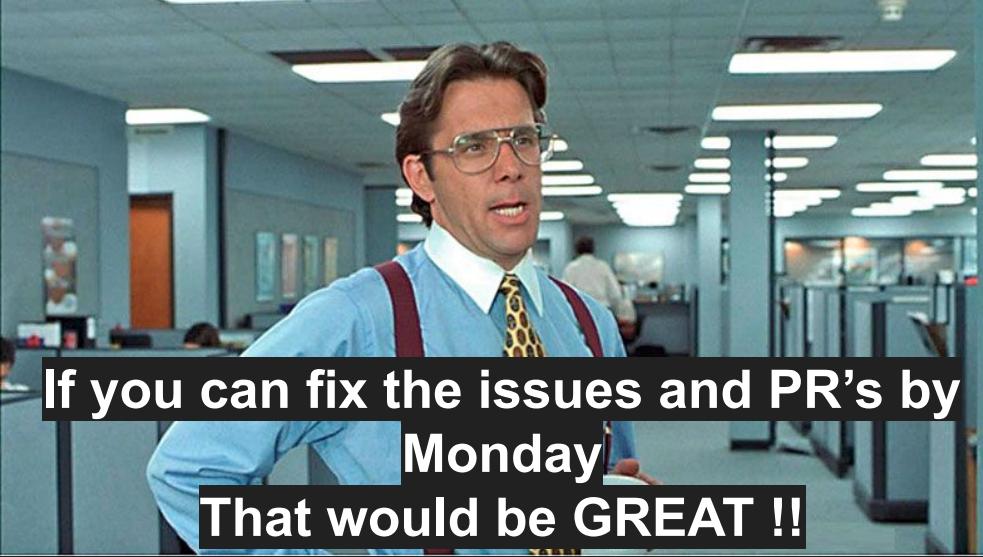
**Time-Consuming**

**Managing  
PRs and  
Issues**

**Decision  
Making**

**Stress**





If you can fix the issues and PR's by  
Monday  
That would be GREAT !!





# Challenges: For Managers, Team Leads



```
graph TD; C((Lack of Visibility  
+  
No  
Centralized View)) --- O((Ownership)); C --- DM((Decision Making)); C --- D((Deadlines)); C --- CGE((Complexity  
grows  
exponentially))
```

Ownership

Lack of Visibility  
+  
No  
Centralized View

Decision  
Making

Deadlines

Complexity  
grows  
exponentially





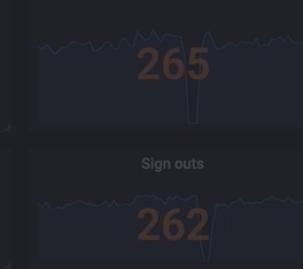
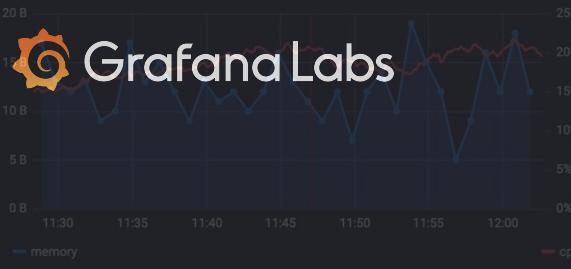
Memory / CPU

logins

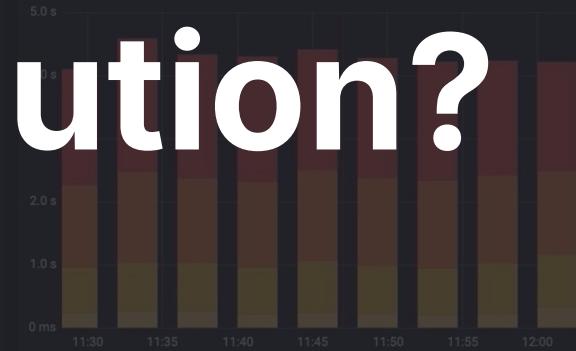
○ timeshift -1h

Memory

Sign ups



server requests ▾



# What is the Solution?



Grafana Labs

# Introducing Grafana

# Using Grafana

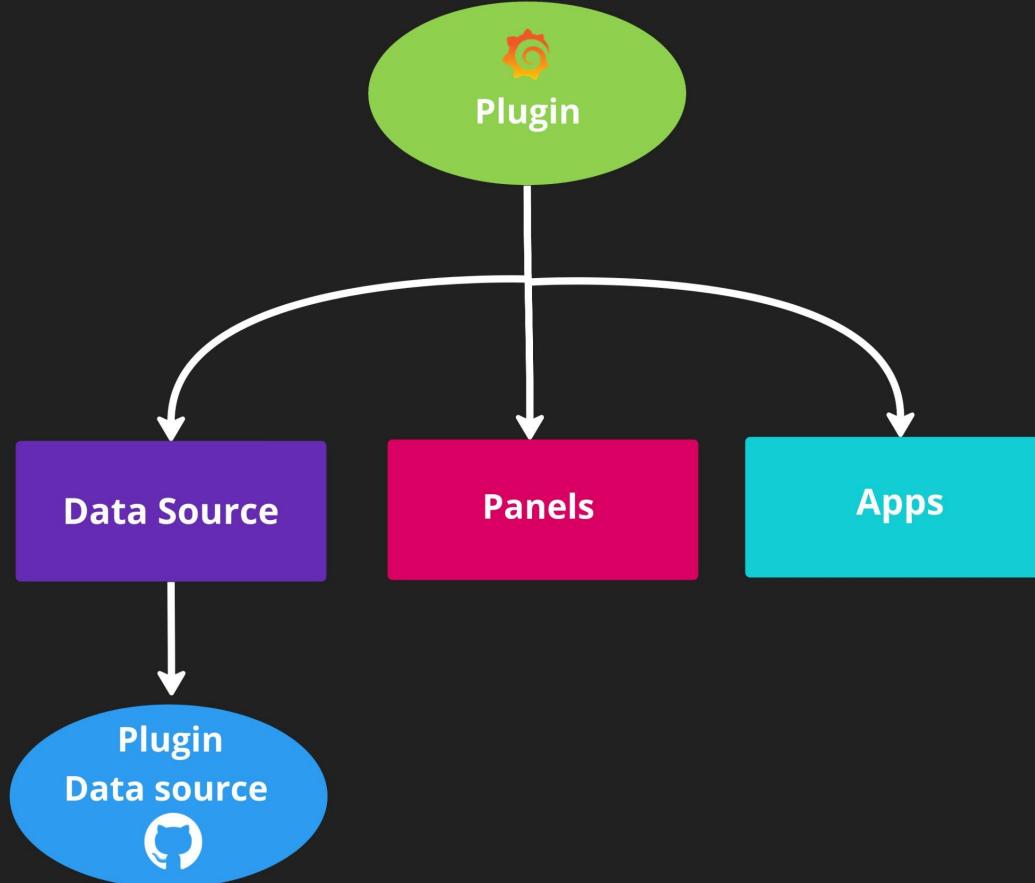
- 1 Available on all Platforms 
- 2 Support various Visualisation formats 
- 3 Only need a source of Data 

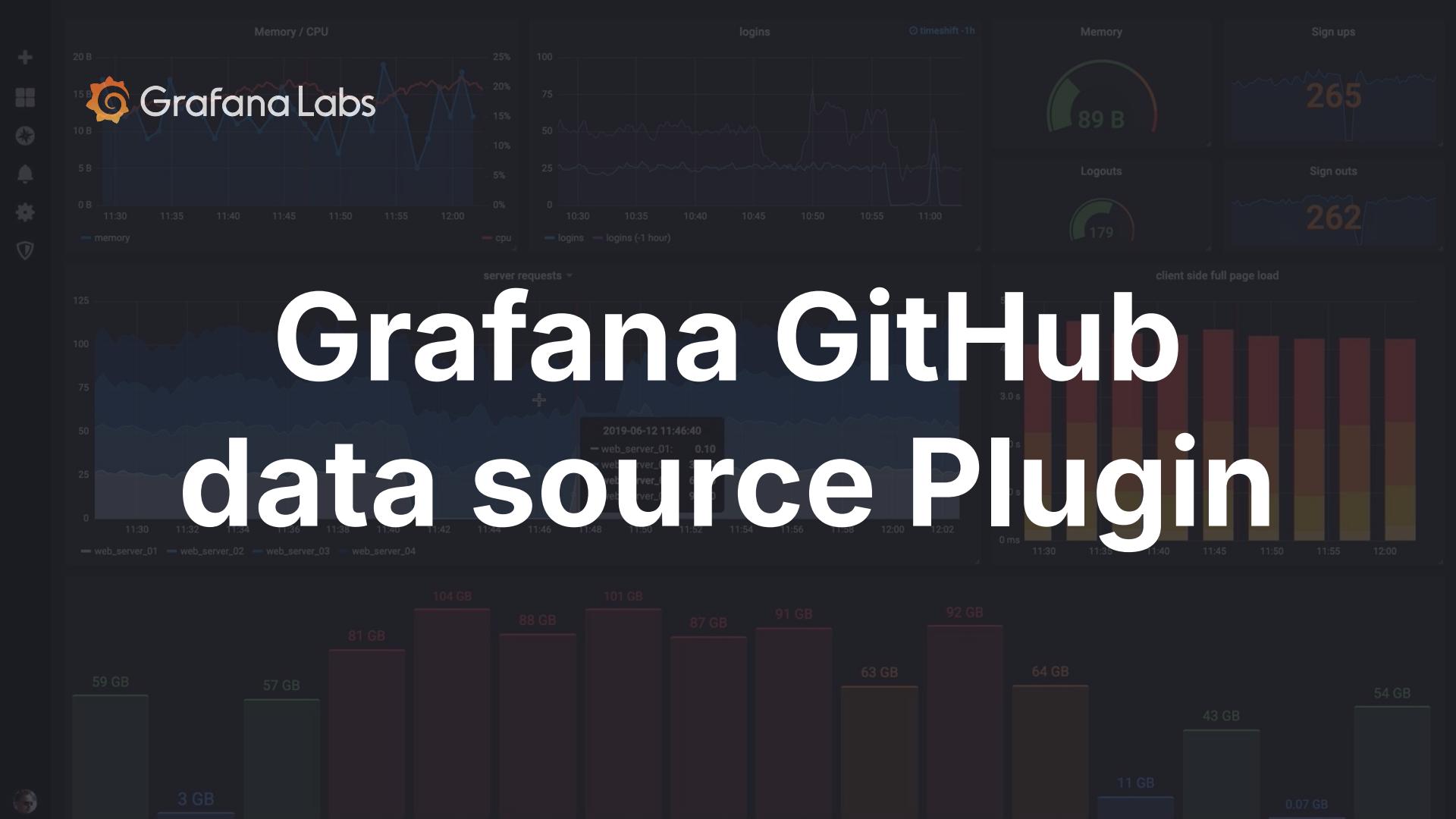
# Grafana Plugins

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



# Grafana Plugin Breakdown

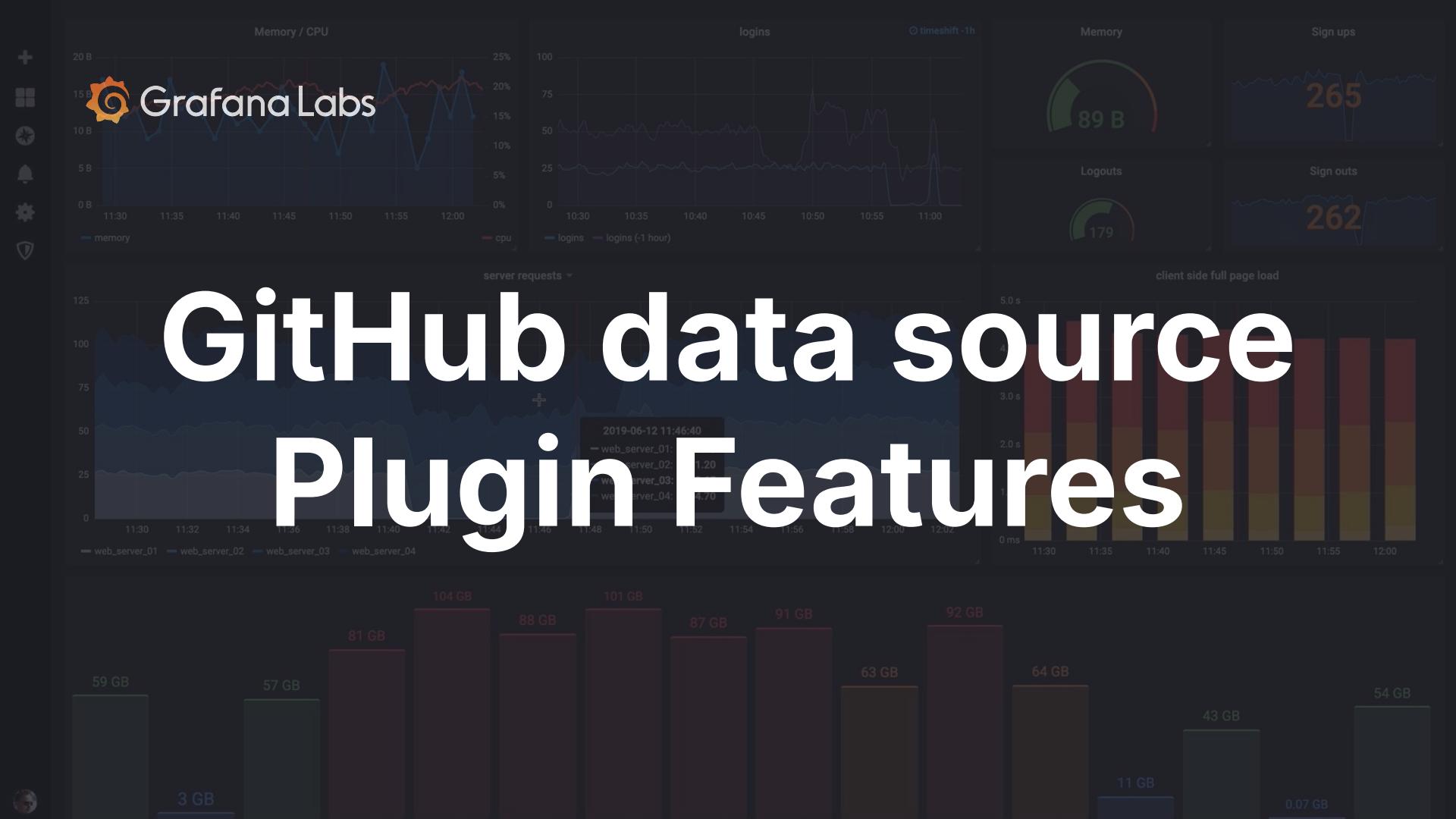




# GitHub data source Plugin

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





# GitHub Plugin Features

1

## Backend

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



# GitHub Plugin Features

2

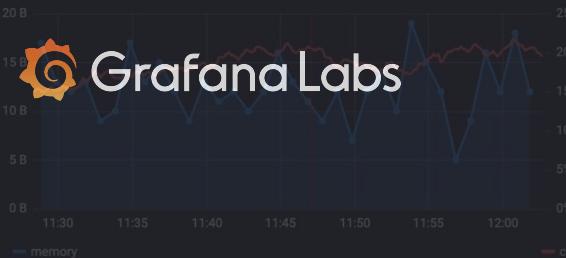
## Frontend

- Visualize queries
- Template variables
- Annotations





Memory / CPU



logins

timeshift -1h



Memory



Logouts



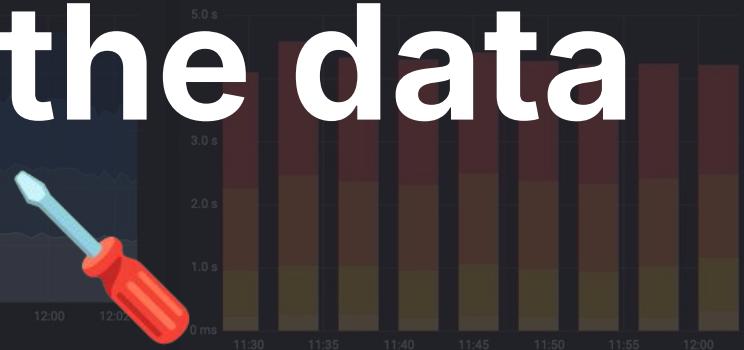
Sign ups



server requests ▾



client side full page load



# Configuring the data source



# 2 Step process

Install  using the  
 plugin catalog



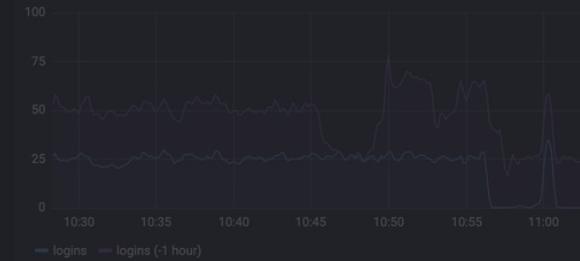
Configure  API Key



Memory / CPU



logins



Memory



Logouts



Sign ups



Sign outs



server requests ▾



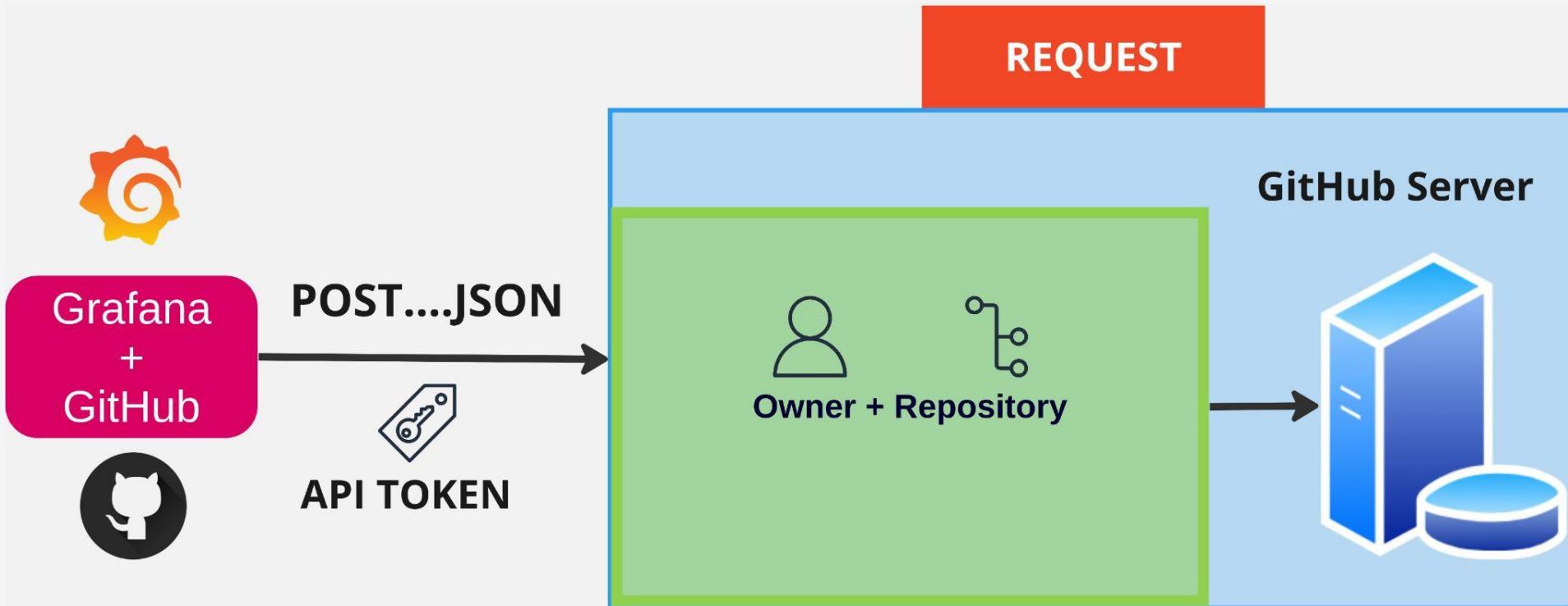
client side full page load



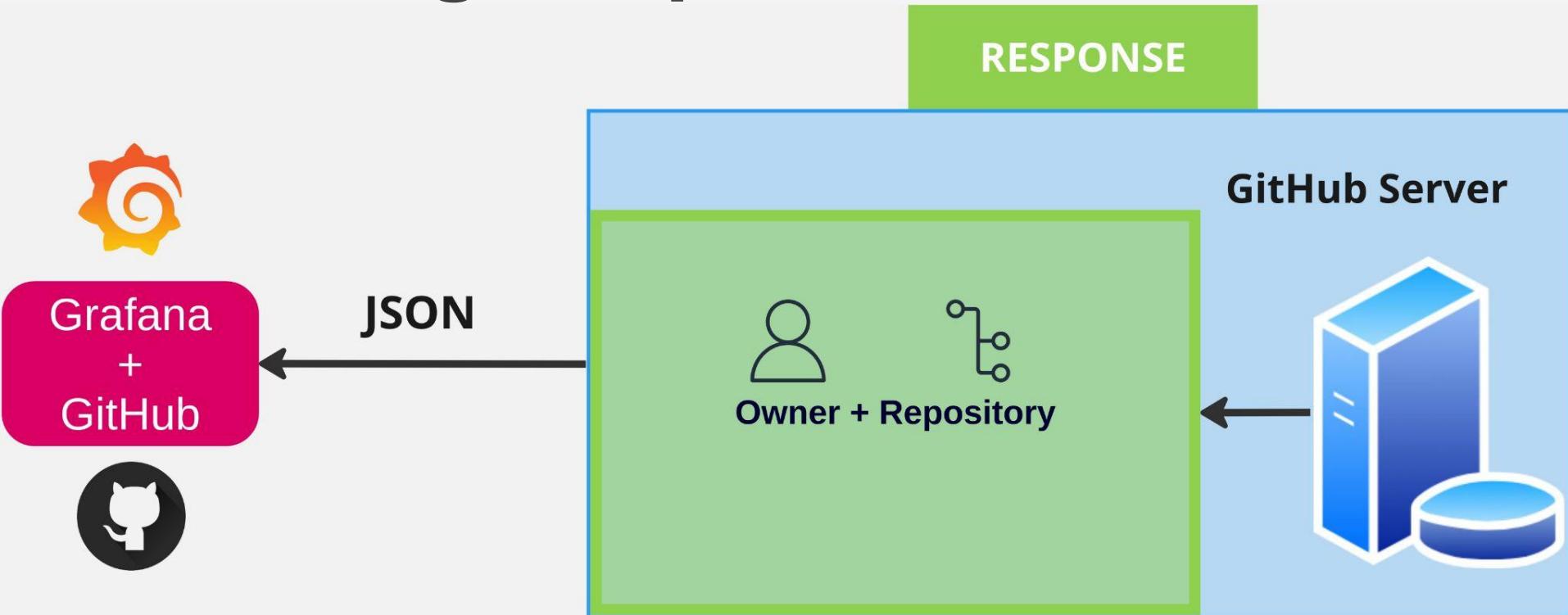
# How is it going to work?



# Sending Request

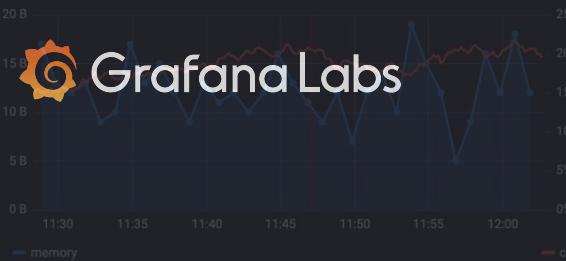


# Receiving Response





Memory / CPU



logins



timeshift -1h

Memory



Logouts



Sign ups



265

262

Sign outs

# Creating a Dashboard panel



server requests ▾



2019-06-12 11:46:40

— web\_server\_01: 0.10

— web\_server\_02: 31.00

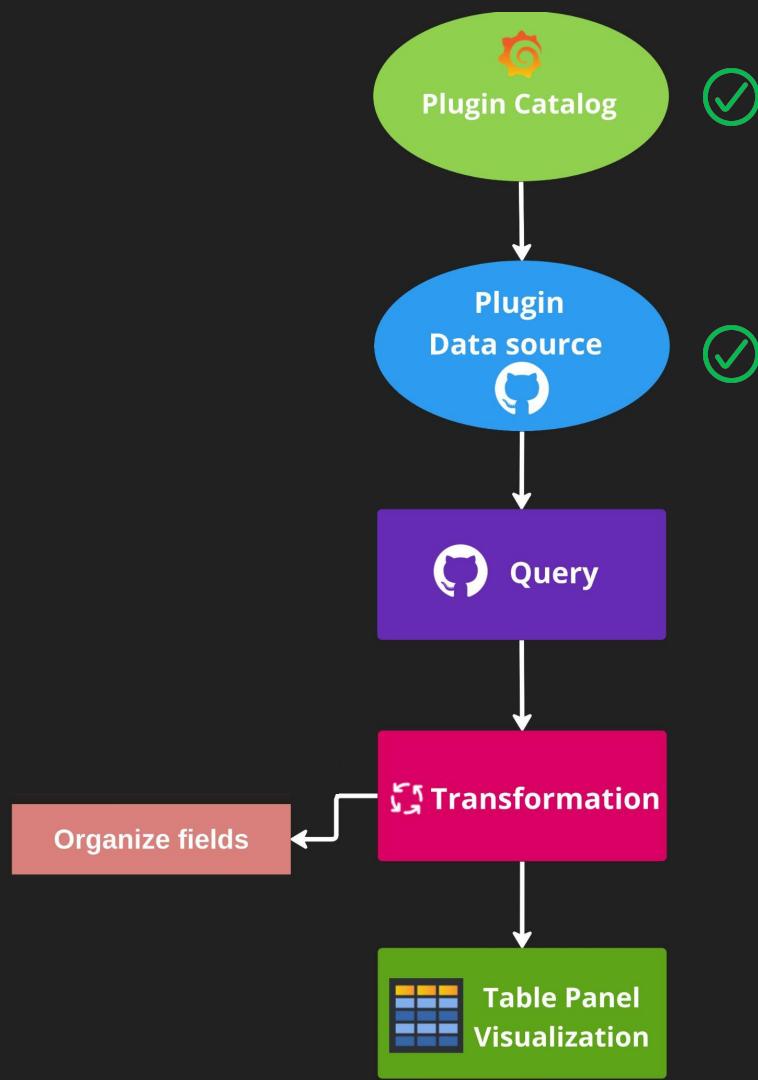
— web\_server\_03: 13.00

— web\_server\_04: 44.00

3.0 s

client side full page load





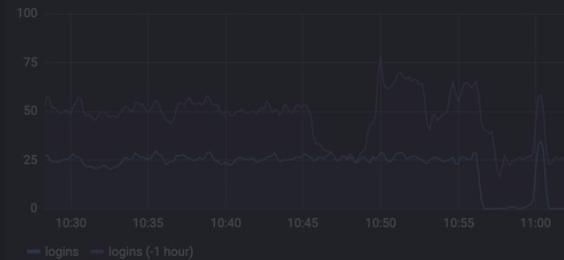


Memory / CPU



logins

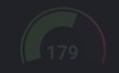
timeshift -1h



Memory



Logouts



Sign ups



Sign outs



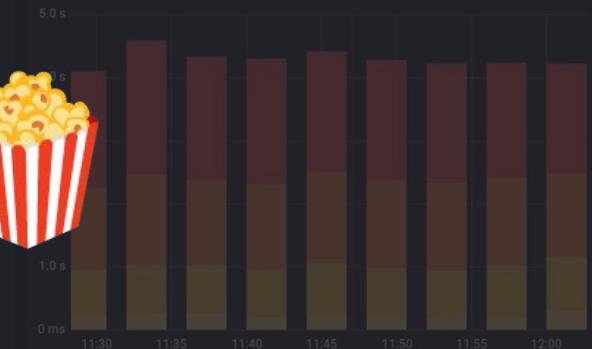
server requests ▾



# Demo



client side full page load





Memory / CPU



logins



Memory



Logouts



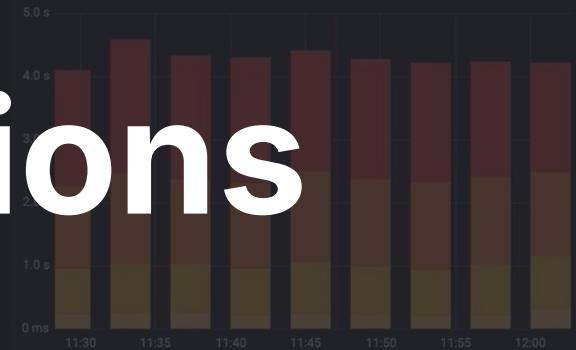
Sign ups



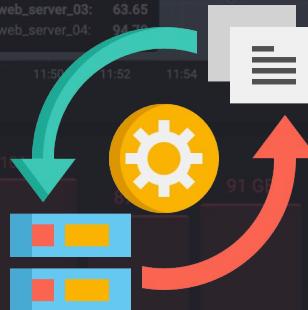
server requests ▾



client side full page load



# Transformations



# Grafana Transformation

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



# Transformation Types

*Extract fields*

*Sort by*

*Format by*

*Convert field type*

**Filter data**

*Rename by Regex*

*Group by*

*Organize*

*Reduce*



Memory / CPU



logins

timeshift -1h



Memory



Logouts



Sign ups



server requests ▾

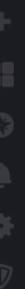


# Demo



client side full page load





Memory / CPU



logins



Memory



Logouts



Sign ups

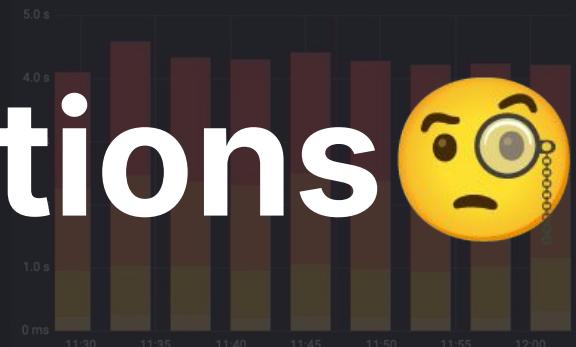


.

Sign outs

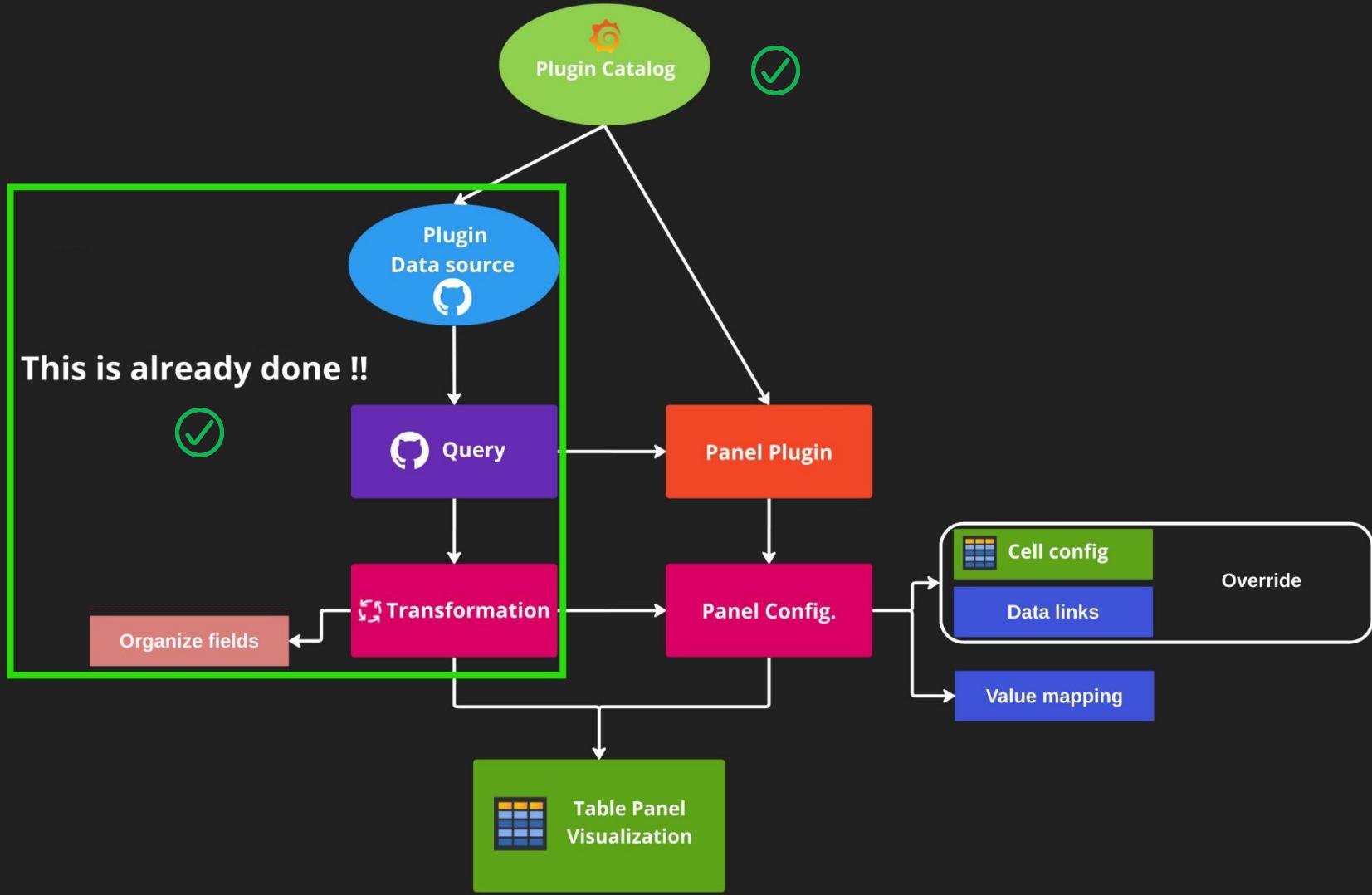
262

client side full page load



# 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	juanicabananas	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 Go	2024-03-25 12:24:36	grafana/grafana	false	PioneerD	
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 slowdownr	2024-03-26 18:51:44	grafana/grafana	true	ddelemeny
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 Go	2024-03-25 12:24:36	grafana/grafana	false	Pioneerd
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 X

Condition	Display text	Color	Actions
Value false	in progress	<span style="color: orange;">●</span>	<span style="color: orange;">✖</span> <span style="color: orange;">↳</span> <span style="color: orange;">trash</span>
Value grafana/grafana	grafana-core	<span style="color: purple;">●</span>	<span style="color: purple;">✖</span> <span style="color: purple;">↳</span> <span style="color: purple;">trash</span>

+ 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 separate tabs	2024-03-20 12:49:59	grafana-core	in progress	sympatheticmoose
84808	Azure Monitor: Metric query for multiple panels	2024-03-20 12:55:14	grafana-core	in progress	goorallab
84818	Annotations are not shown in the panel editor	2024-03-20 14:39:16	grafana-core	true	dprokop
84821	Dashboards: TB/TiB, GB/GiB Unit Conversion	2024-03-20 14:56:54	grafana-core	true	reiverjohn
84824	VizTooltips: Switch data links display from icon to text	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 no title	2024-03-20 16:18:11	grafana-core	in progress	natellium
84834	Scenes powered dashboards enhancement	2024-03-20 16:23:18	grafana-core	in progress	natellium



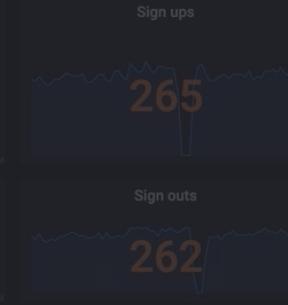
Memory / CPU



logins



Memory



server requests ▾



client side full page load



# 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*

*Interval*

*Chained  
variables*

Ad-hoc filters

**Query**

*Custom*

*Global  
variables*

*Constant*

*Text Box*

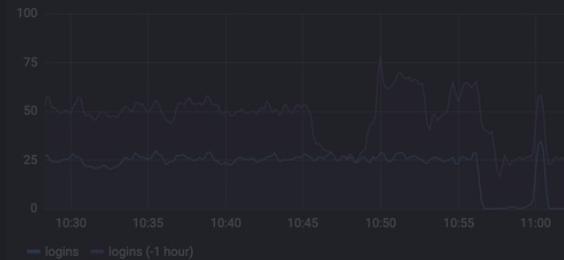


Memory / CPU



logins

timeshift -1h



Memory



Logouts



Sign ups



Sign outs



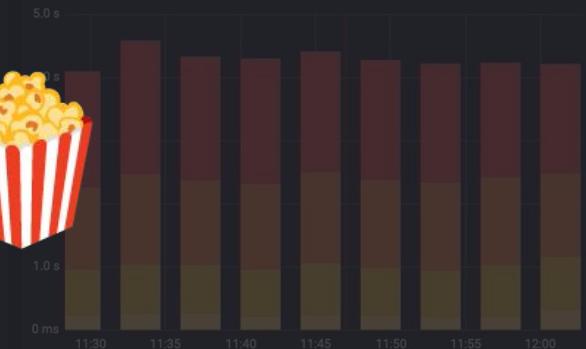
server requests ▾



# Demo



client side full page load





Memory / CPU



logins



Memory



Logouts



Sign ups



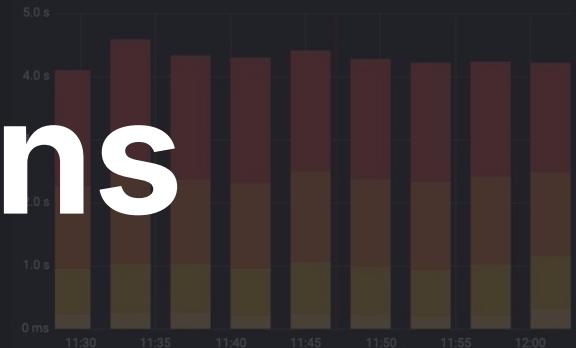
265

262

server requests ▾



client side full page load



# Grafana Annotations

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





Memory / CPU



logins

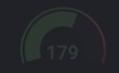
timeshift -1h



Memory



Logouts



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Sign outs



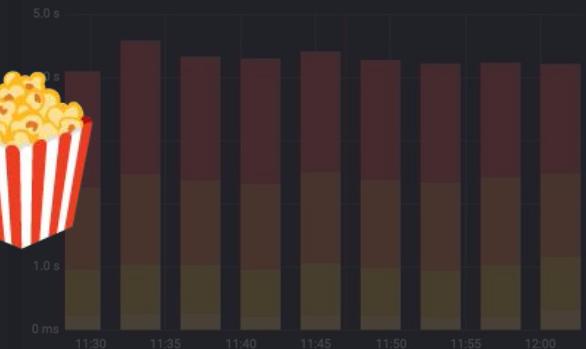
server requests ▾



# Demo

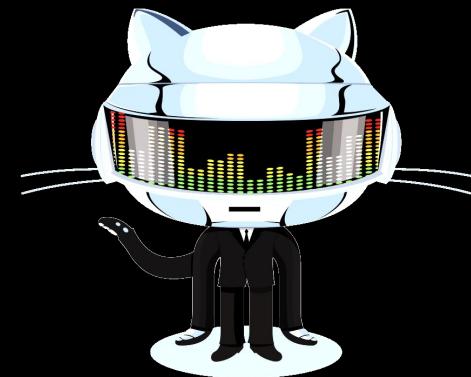


client side full page load



# Takeaways

- 1 Centralized Visibility
- 2 Monitoring the Productivity
- 3 Collaboration & Transparency



# Future Improvements

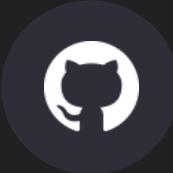
- 1 Support Alerting
- 2 Time Series Data

# Want to get involved?

1

## To report bugs, feature-request:

- Grafana GitHub [repo](#)



[grafana/github-datasource](#)

2

## Other useful resources:

- Slack channel [#grafana](#)
- Community [forum](#)



[#grafana](#)



[community.grafana.com](#)

# Bonus: Grafana Champions Program

- 1 Join the Experts
- 2 Collab with Devs
- 3 Get updated news!!



<https://grafana.com/community/champions/>





SUCCESS

SOLUTION

PROBLEM





# Thanks for participating!

Contact me:



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



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

