# Efficient Cloud Application Monitoring with Grafana API Integration

22 Aug 2024

Grafana Labs

DEVOPSDAYS HALIFAX

# Presenter

**Syed Usman Ahmad**

Sr. Developer Advocate

# About me

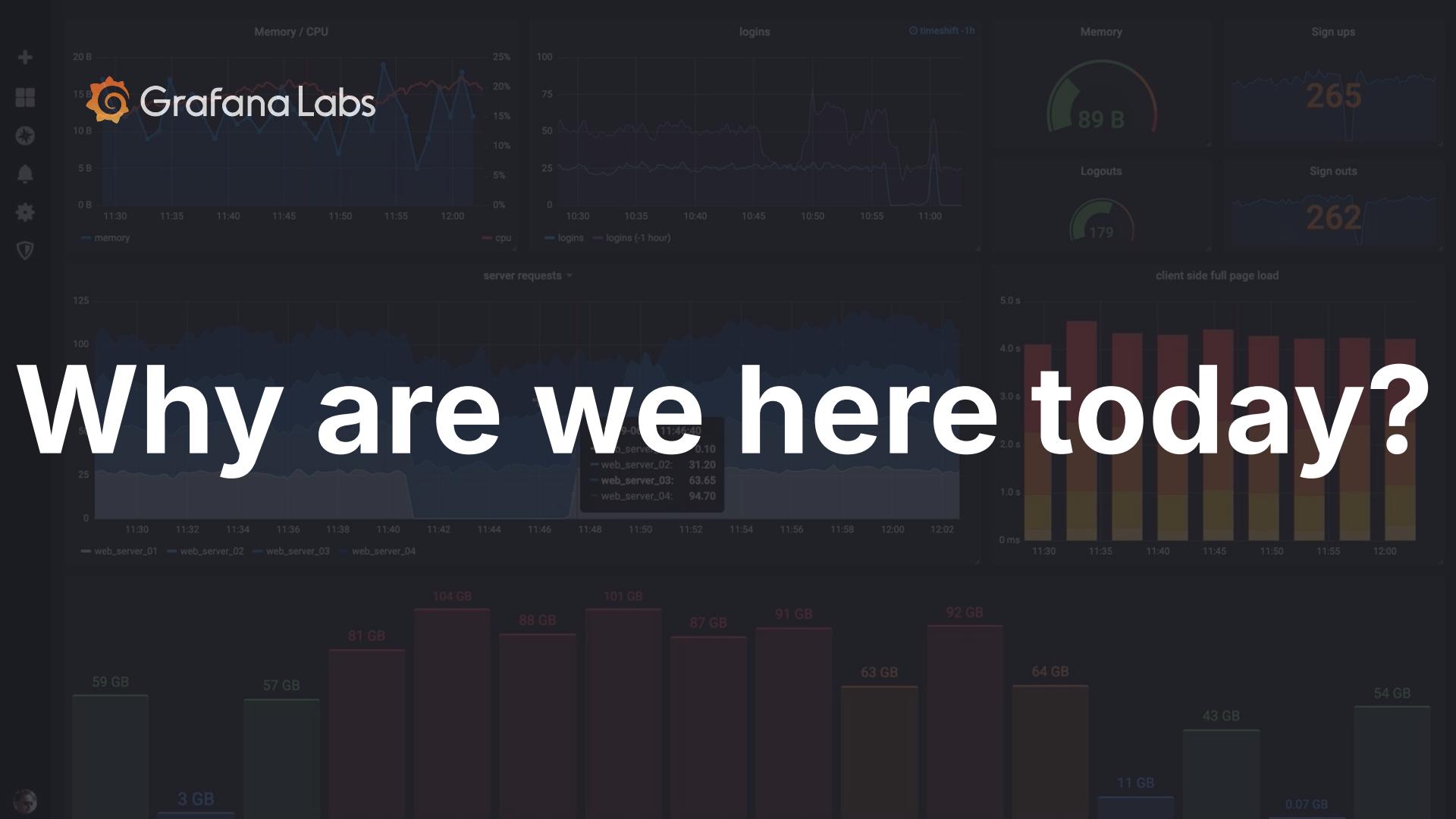
## What I do?

## My previous roles?

## What I do beside work?

↘

github.com/usmangt




# Why are we here today?

# Lots of users traffic on daily basis

## Grafana

The parent category for Grafana. Browse the subcategories

- Installation
- Configuration 1 new
- Authentication
- Alerting 4 new
- Dashboards 1 unread 9 new
- Data Links 1 new
- Live
- Explore
- Bar Gauge Panel
- Bar Chart Panel
- Gauge Panel
- Geomap Panel 1 new
- Graph (Old) Panel
- Pie Chart Panel
- Stat Panel
- Table Panel
- Time Series Panel
- Prometheus 2 new
- InfluxDB 4 new
- Elasticsearch
- Sqlyze (Beta)
- MySQL 1 new
- PostgreSQL
- MSSQL
- Cloudwatch
- Graphite
- Azure Monitor
- Zabbix
- Releases
- Security Announcements
- How To
- Developers & API
- Grafana Agent 2 new

## Grafana Loki

Discuss and ask questions on Grafana Loki–the open source horizontally-scalable, multi-tenant log aggregation system inspired by Prometheus.

## Grafana Cloud

This is the place to discuss topics related to Grafana Cloud services such as hosted Grafana, Metrics, Logs, and Synthetic Monitoring.

## Grafana Tempo

Ask questions and give feedback on Grafana Tempo, the open source and high-scale distributed tracing backend created by Grafana Labs.

## Grafana Phlare

Ask questions and give feedback on Grafana Phlare, the open source project for aggregating continuous profiling data.

## Grafana Plugin Development

Join other developers to discuss plugin development. Ask questions or share what you're working on.

- Announcements
- Signing & publishing
- Share & showcase

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# How to Monitor the Community Performance?

# Discourse Data Explorer Plugin

1. Enables SQL queries against Backend DB
2. Supported by the Discourse API
3. Easy and powerful to get data

# Example

- SQL query to get the Top 20 posts

```sql
SELECT
    t.ID, TITLE, REPLY_COUNT, VIEWS, LAST_POSTED_AT, CATEGORY_ID,
    CASE WHEN tcf.name IS NOT NULL THEN 'SOLVED' ELSE 'UNSOLVED' END status

FROM topics t
LEFT JOIN topic_custom_fields tcf ON tcf.topic_id = t.id
            AND tcf.name = 'accepted_answer_post_id'

WHERE
    t.created_at >= '2023-05-01'
    AND t.created_at < '2023-07-31'
    AND CATEGORY_ID NOT IN (41,34,40,68,30,6)

ORDER BY views DESC LIMIT 20
```

# Example

- JSON Result:


```
{
 ......
  .......
  "rows": [
    [
      87028,
      "Database is locked",
      1,
      1111,
      "2023-05-13T10:37:16.185Z",
      20,
      "UNSOLVED"
    ],
    [
      88090,
      "How can I get CPU usage for multiple servers within a single panel?",
      7,
      820,
      "2023-06-30T07:46:12.239Z",
      15,
      "UNSOLVED"
    ],
    [
      86940,
      "How do you sum all like-named rows?",
      2,
      652,
      "2023-05-03T15:38:15.557Z",
      50,
      "SOLVED"
    ],
```


```
curl -X POST -d "api key=$api key&api username=$username" https://community.grafana.com/admin/plugins/explorer/querie/$query id/run
```


```
}
```

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Memory / CPU
memory
cpu
logins
timeshift -1h
logins
logins (-1 hour)
Memory
89 B
Sign ups
265
Logouts
179
Sign outs
262
server requests
web_server_01
web_server_02
web_server_03
web_server_04
web_server_02: 31.20
web_server_03: 63.65
web_server_04: 94.70
client side full page load
59 GB
3 GB
57 GB
81 GB
104 GB
88 GB
101 GB
87 GB
91 GB
63 GB
92 GB
64 GB
11 GB
43 GB
0.07 GB
54 GB

# Challenges 😓

Tracking Progress

Time-Consuming

Scaling & Growth

Up to Date?

Stress

If you can fix those user problems
by Monday
That would be GREAT !!

# This is how we monitor the Community

Category: Alerting | Start Date: start of 2022q4 | End Date: end of 2023q1 | OLD-Category: alerting

## Community Forum Response Rates

### Response Rate per Category: from start of 2022q4 to end of...

| | |
|---|---|
| subcategory | alerting |
| topics w/ no response | 179 |
| response rate for subcategory | 61.3% |

### "Alerting" category: topics with no response: 22Q4

| Topic ID | Title |
|---|---|
| 75222 | "Count metrics resulting from grafana managed alert and multi series mysql query" |
| 75372 | "Alert Test Rule fails with working Teams Channel" |
| 75378 | "Listing alerts that are default grouped by importance doesn't work as expected" |
| 75709 | "After update to 9.2 could not get metrics from AWS Cloudwatch" |
| 75723 | "How to get time information and remove the source url" |
| 75757 | "Query alert is in 'alerting' state for ever" |
| 75842 | "Grafana Table Visualization in Pop Up (alert) On Selecting a filter" |
| 75952 | "Grafana alert (status code with 195,187 and etc.)" |

‹ 1 2 3 4 5 6 7 ··· 23 › 1 - 8 of 179 rows

### Top 20 Posts in Alerting Category: from start of 2022q4 to end of 2023q1

| Topic I | Title | Total Views | Reply Count | Last Posted At | Status |
|---|---|---|---|---|---|
| 76083 | Documentation of Alert Templating in Serious Need of Improvement! | 4088 | 80 | 2023-JUL | UNSOLVED |
| 75591 | Variables Formatting in Grafana Alerts | 3830 | 0 | 2022-NOV | SOLVED |
| 80988 | Working configuration example for alerts templating - Telegram and Slack | 3456 | 0 | 2023-MAY | SOLVED |
| 85019 | How to handle no data alert? | 2216 | 0 | 2023-APR | UNSOLVED |

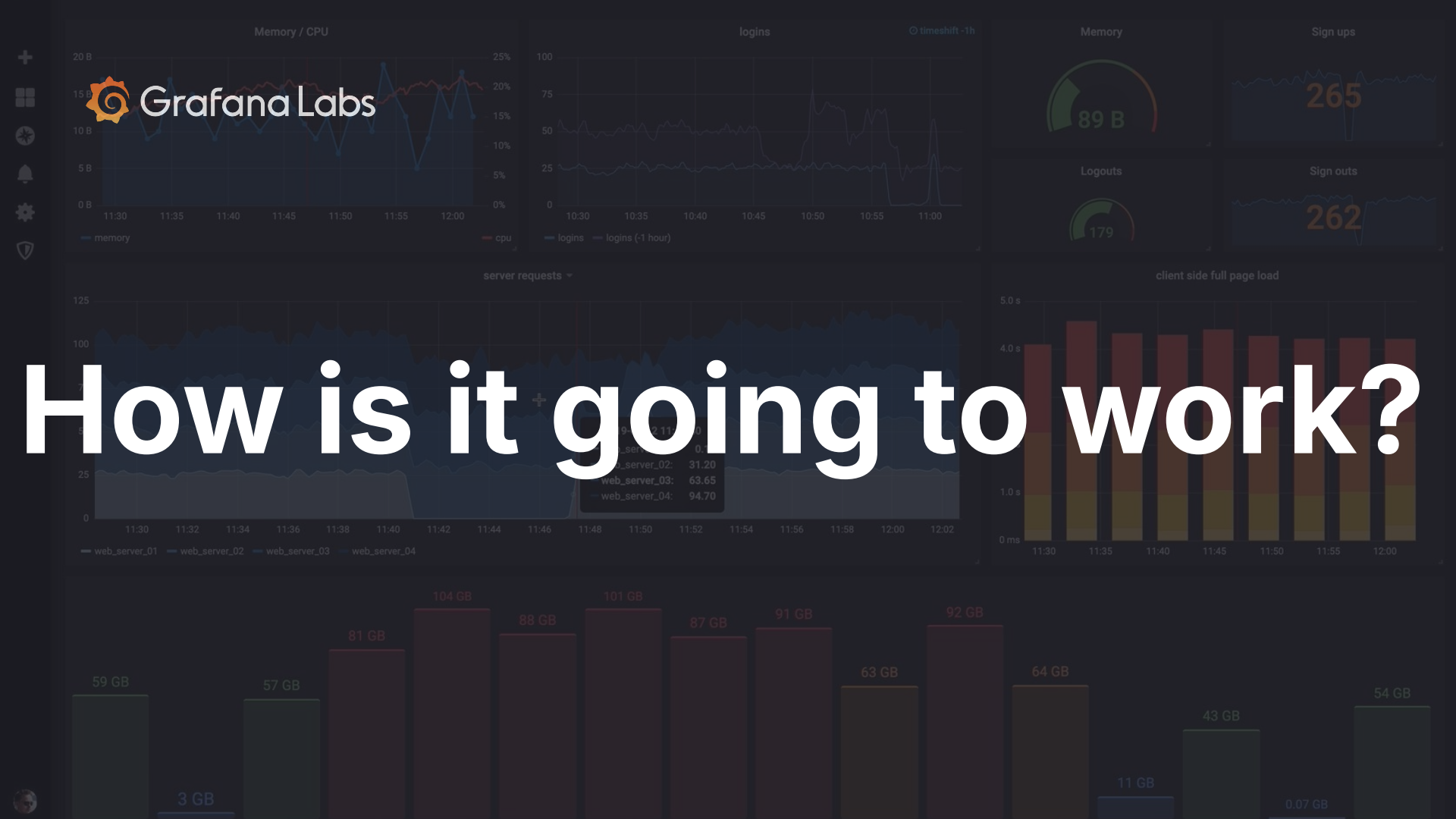
Grafana Labs
Memory / CPU
memory
cpu
logins
timeshift -1h
logins
logins (-1 hour)
Memory
89 B
Sign ups
265
Logouts
179
Sign outs
262
server requests
web_server_01
web_server_02
web_server_03
web_server_04
client side full page load
How Can You Do It?

# Using Grafana

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

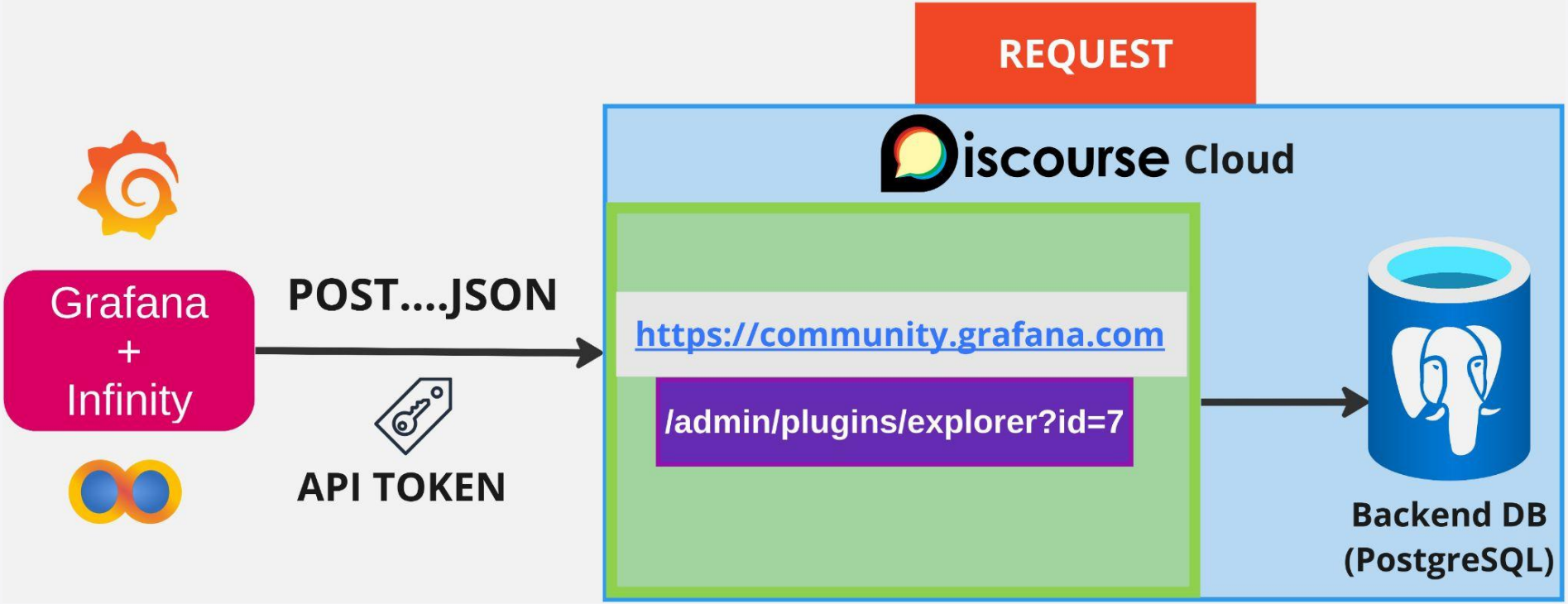
# Using Infinity plugin

1. Core Plugin ✓
2. Support various data formats
3. Supports many Grafana features

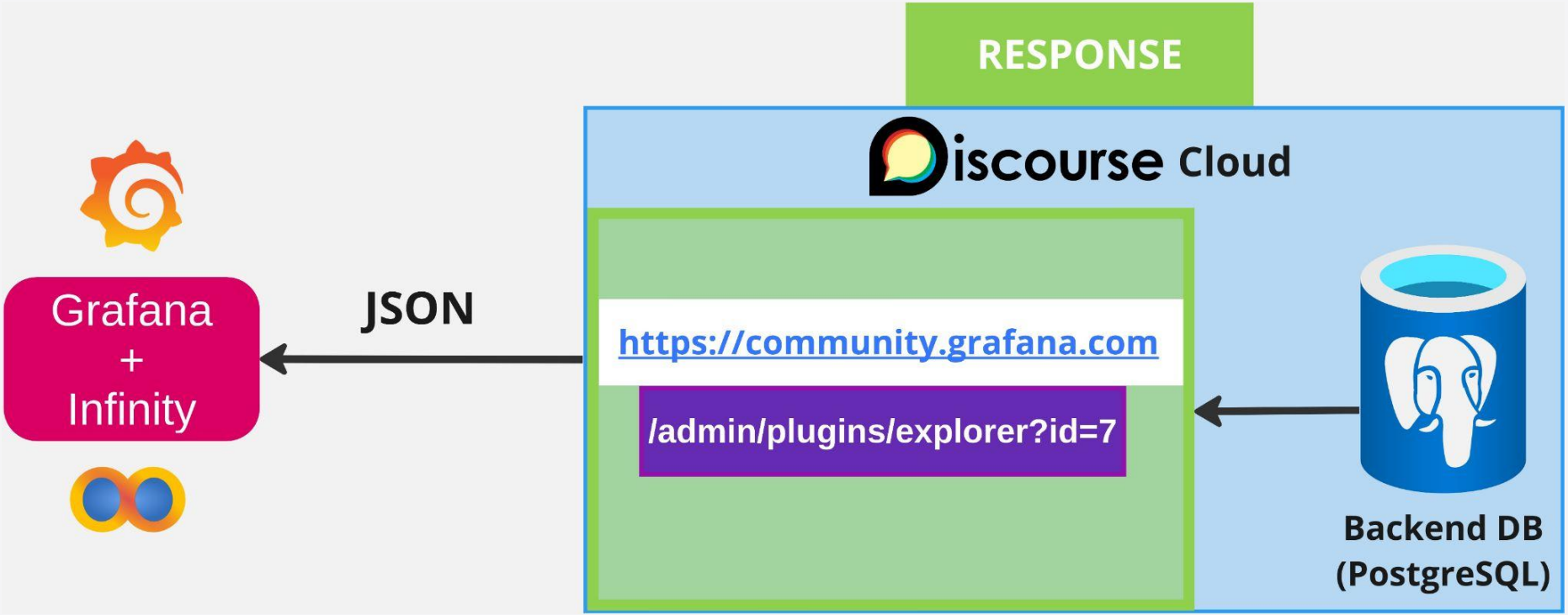


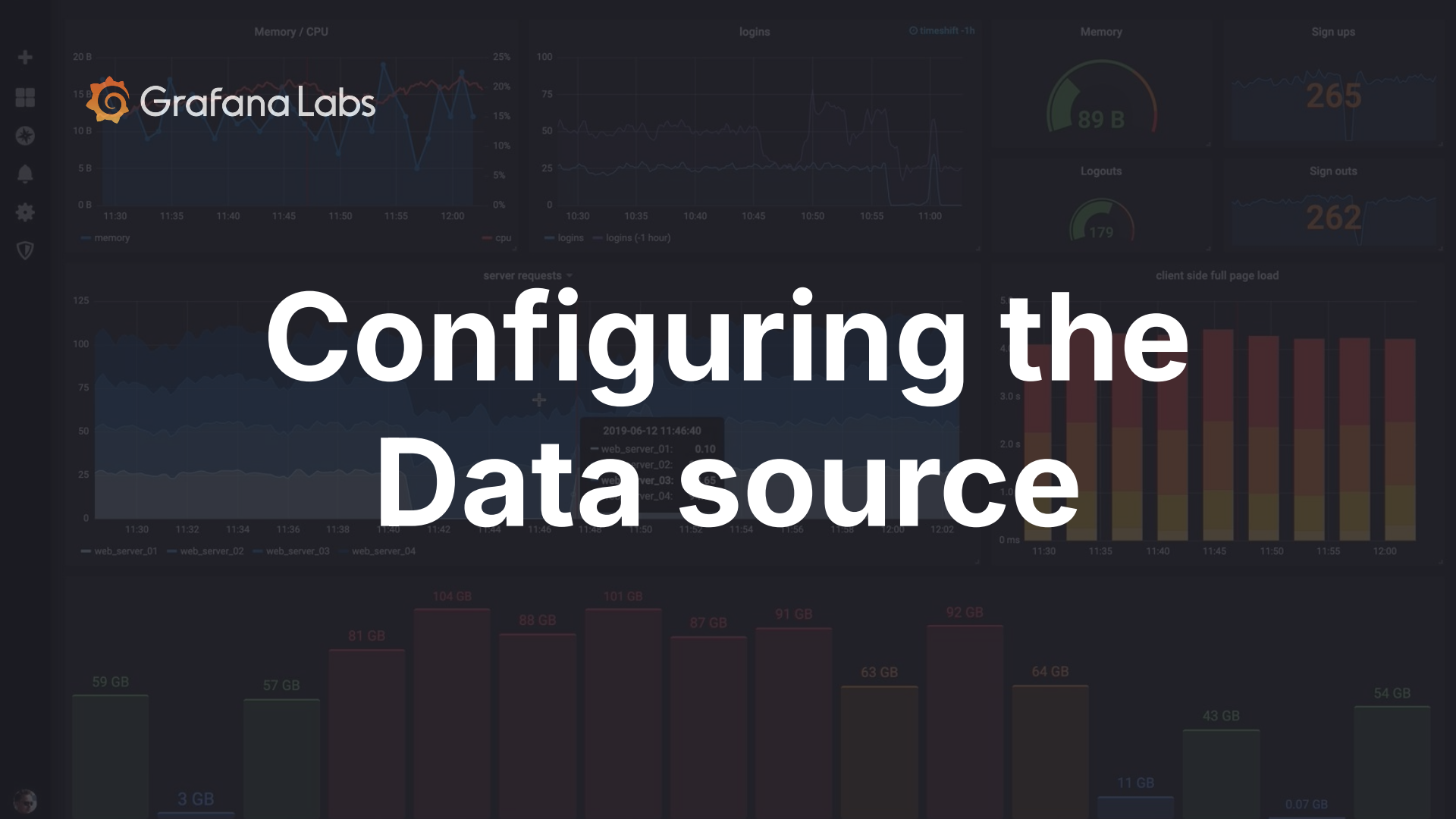

# How is it going to work?

# Sending Request



# Receiving Response






# Configuring the Data source

# 2 Step process

Install ∞ using the plugin catalog

↓

Configure API Key

Search or jump to... ctrl+k

Home

Add

# Welcome to Grafana

Need help? Documentation Tutorials Community Public Slack

Remove this panel

## Basic

The steps below will guide you to quickly finish setting up your Grafana installation.

TUTORIAL
DATA SOURCE AND DASHBOARDS

### Grafana fundamentals

Set up and understand Grafana if you have no prior experience. This tutorial guides you through the entire process and covers the "Data source" and "Dashboards" steps to the right.

COMPLETE

### Add your first data source

Learn how in the docs

DASHBOARDS

### Create your first dashboard

Learn how in the docs

Dashboards

Starred dashboards

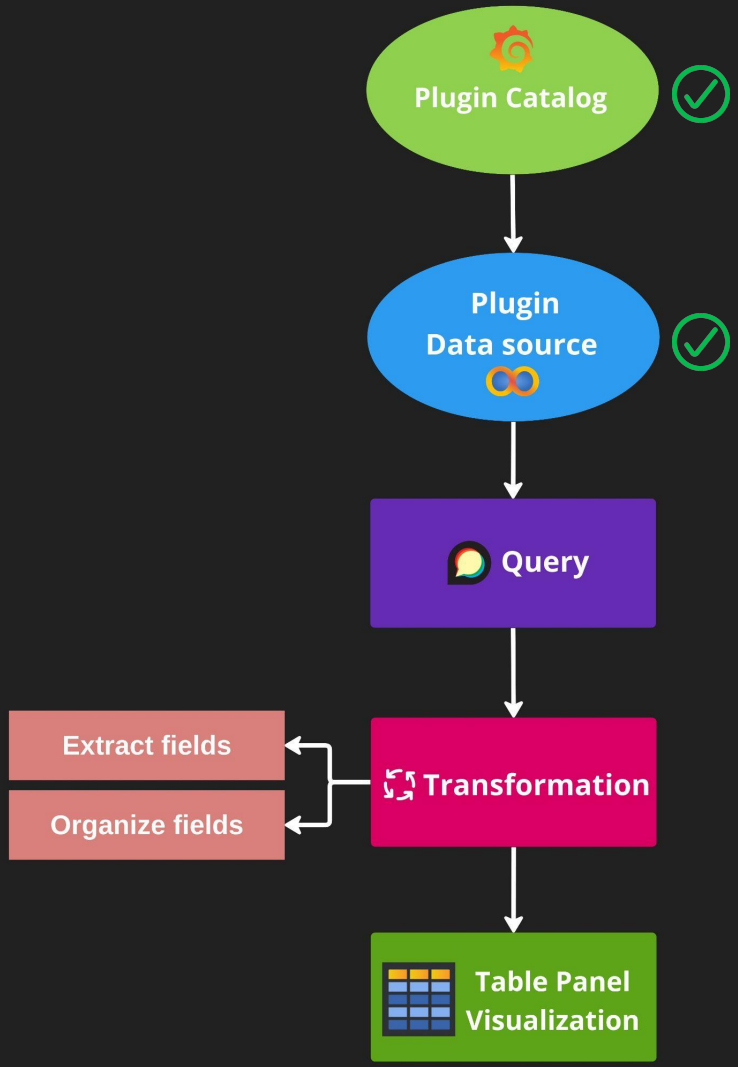
Latest from the blog

Aug 18

Inside Grafana Labs' hiring process for backend engineers

Grafana Labs

# Creating a Dashboard Panel


Plugin Catalog
Plugin
Data source
Query
Extract fields
Organize fields
Transformation
Table Panel
Visualization

# Setting up a Query panel

Home

Add

Unnamed

Welcome to Grafana

Need help? Documentation Tutorials Community Public Slack

Remove this panel

Basic

The steps below will guide you to quickly finish setting up your Grafana installation.

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COMPLETE

Add your first data source

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Learn how in the docs

Dashboards

Starred dashboards

Recently viewed dashboards

Monitoring Status Dashboard

Latest from the blog

Aug 16

Reduce MTTR with Grafana, Grafana k6, and Prometheus: Inside DHL's observability stack

Each year, more than 296 million packages are shipped around the world via DHL and their premium service, Time Definite International. And at DHL Express Switzerland, a local unit of the international logistics and shipping company, the IT team provides solutions for tracking customs clearance progress, analytics, mobile and optical character recognition (OCR) scanning, and warehouse management on every package that moves through Switzerland. It's a complex operation that requires a multi-layered business and IT framework where every minute and every shipment counts.

Aug 14

How to monitor pool water levels from anywhere with Grafana

I've had a swimming pool at my house in Massachusetts since 2016. One of the problems that pool owners like myself face when we go on vacation or leave for several days is evaporation from the pool and the water level dropping below the skimmers. This can happen due to sunlight and warm temperatures. It can also happen when temperatures drop at night and

359

# Defining query in the editor

Home › Dashboards › Monitoring Status Dashboard › Edit panel

1

Table view | Fill | Actual | Last 24 hours

3

Panel Title

A

[87028,"Database is locked",1,1246,"2023-05-13T10:37:16.185Z",20,"UNSOLVED"]

[88090,"How can I get CPU usage for multiple servers within a single panel?",7,921,"2023-06-30T07:46:12.239Z",15,"SOLVED"]

[90396,"Failed to evaluate queries and expressions: input data must be a wide series but got type long (input refid)",2,749,"2023-07-28T11:32:30.758Z",60,"UNSOLVED"]

2

Query 1 | Transform 0

Data source: Infinity | Query options: MD = auto = 1326, Interval = 1m | Query inspector

A (Infinity)

Type: JSON | Parser: Backend | Source: URL | Format: Table | Help | Github

Method: POST

URL: https://community.grafana.com/admin/plugins/explorer/queries/7/run

Headers, Body, Request params

# Transformation - Extract fields

Home › Dashboards › New dashboard › Edit panel

Discard | Save | Apply

Table view | Fill | Actual | Last 6 hours | Table

Panel Title

A


[87028,"Database is locked",1,1218,"2023-05-13T10:37:16.185Z",20,"UNSOLVED"]

[88090,"How can I get CPU usage for multiple servers within a single panel?",7,901,"2023-06-30T07:46:12.239Z",15,"SOLVED"]

[90396,"Failed to evaluate queries and expressions: input data must be a wide series but got type long (input refid)",2,724,"2023-07-28T11:32:30.758Z",60,"UNSOLVED"]

[86940,"How do you sum all like-named rows?",2,689,"2023-05-03T15:38:15.557Z",50,"SOLVED"]

[89538,"Influxdb2: Combining last + sum to get weekly values",7,653,"2023-06-21T16:33:38.259Z",11,"SOLVED"]

[88901,"How to change the labels and color of the gauge panel?",19,564,"2023-06-07T12:04:06.496Z",51,"UNSOLVED"]

[87835,"Found duplicate series for match group",0,560,"2023-06-21T10:17:51.155Z",24,"UNSOLVED"]

[86860,"Need to set variable in same dashboard when clicking a cell in a table",6,543,"2023-05-02T20:21:19.966Z",61,"SOLVED"]


Query 1 | Transform 0

Data source: Infinity | Query options MD = auto = 1297 Interval = 15s | Query inspector

A (Infinity)

Type: JSON | Parser: Backend | Source: URL | Format: Table | Help | Github

Method: POST | URL: https://community.grafana.com/admin/plugins/explorer/queries/7/run | Headers, Body, Request params

Parsing options & Result fields Field types, alias and selectors

Pagination beta

Computed columns, Filter, Group by

Search options

All | Overrides

Panel options

Title: Panel Title

Description

Transparent background

Panel links

Repeat options

Table

Table footer

Cell options

Standard options

Data links

Value mappings

Add value mappings

Thresholds 2

+ Add field override

# Transformation - Organize fields

Panel Title

| Topic-ID | Title | Reply count | Total views | Last viewed | Status |
|---|---|---|---|---|---|
| 87028 | Database is locked | 1 | 1116 | 2023-05-13T10:37:16.185Z | UNSOLVED |
| 88090 | How can I get CPU usage for ... | 7 | 824 | 2023-06-30T07:46:12.239Z | UNSOLVED |
| 86940 | How do you sum all like-name... | 2 | 656 | 2023-05-03T15:38:15.557Z | SOLVED |
| 90396 | Failed to evaluate queries and... | 2 | 597 | 2023-07-28T11:32:30.758Z | UNSOLVED |
| 89538 | Influxdb2: Combining last + s... | 7 | 591 | 2023-06-21T16:33:38.259Z | SOLVED |

Query 1 | Transform 2

Extract fields

Organize fields

| | |
|---|---|
| 0 | Topic-ID |
| 1 | Title |
| 2 | Reply count |
| 3 | Total views |
| 4 | Last viewed |
| 5 | Category-ID |
| 6 | Status |

Disabled this specific field

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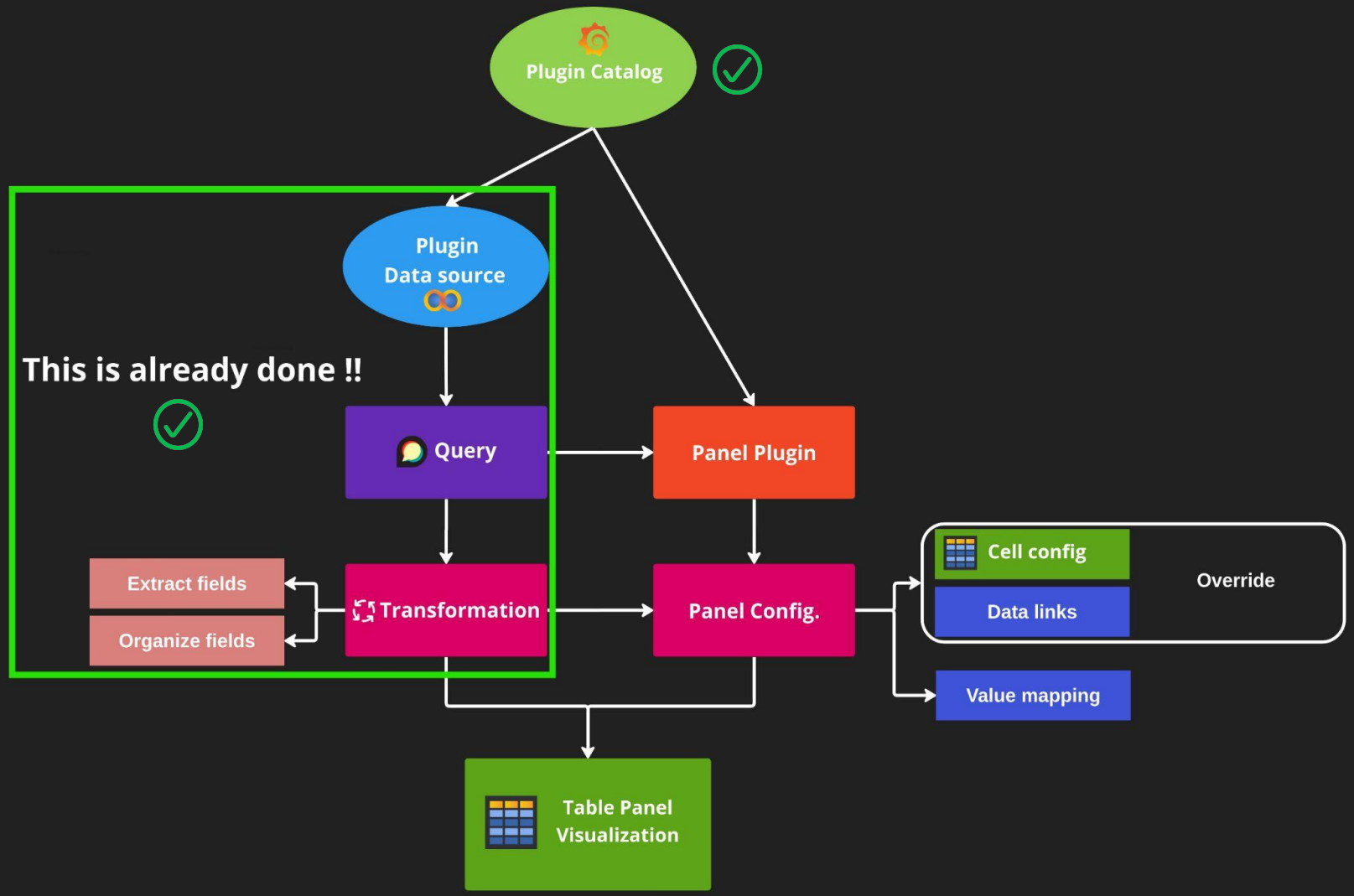
# Panel configurations


Plugin Catalog
Plugin
Data source
This is already done !!
Query
Panel Plugin
Extract fields
Organize fields
Transformation
Panel Config.
Cell config
Data links
Override
Value mapping
Table Panel
Visualization

# Using Override - Cell type

Home › Dashboards › Monitoring Status Dashboard › Edit panel

Discard | Save | Apply

Table view | Fill | Actual | Last 24 hours

Panel Title

| Topic-ID | Title | Reply count | Total views | Last viewed | Status |
|---|---|---|---|---|---|
| 87028 | Database is locked | 1 | 1219 | 2023-05-13T10:37:16.185Z | UNSOLVED |
| 88090 | How can I get CPU usage for multiple servers withi... | 7 | 901 | 2023-06-30T07:46:12.239Z | SOLVED |
| 90396 | Failed to evaluate queries and expressions: input d... | 2 | 724 | 2023-07-28T11:32:30.758Z | UNSOLVED |
| 86940 | How do you sum all like-named rows? | 2 | 689 | 2023-05-03T15:38:15.557Z | SOLVED |
| 89538 | Influxdb2: Combining last + sum to get weekly valu... | 7 | 653 | 2023-06-21T16:33:38.259Z | SOLVED |
| 88901 | How to change the labels and color of the gauge p... | 19 | 565 | 2023-06-07T12:04:06.496Z | UNSOLVED |
| 87835 | Found duplicate series for match group | 0 | 560 | 2023-06-21T10:17:51.155Z | UNSOLVED |
| 86860 | Need to set variable in same dashboard when click... | 6 | 543 | 2023-05-02T20:21:19.966Z | SOLVED |

Query 1 | Transform 2

Data source: Infinity | Query options MD = auto = 1326 Interval = 1m | Query inspector

A (infinity)

Type: JSON | Parser: Backend | Source: URL | Format: Table | Help | Github

Method: POST | URL: https://community.grafana.com/admin/plugins/explorer/queries/7/run | Headers, Body, Request params

URL options Method, Body, Additional headers & parameters

Parsing options & Result fields Field types, alias and selectors

Pagination beta

Table

Search options

All | Overrides

Table

Table footer

Cell options

Standard options

Data links

Value mappings

Add value mappings

Thresholds 2

Override 1
5 › Column width

Override 2
4 › Column width

Override 3
3 › Column width

Override 4
2 › Column width

Override 5
0 › Column width

Override 6
Topic-ID › Column width

Override 7
Status › Column width

Override 8
Title › Column width

+ Add field override

# Using Override - Data links

Override 7

Fields with name

Topic-ID

Data links

Link to topic

https://community.grafana.com/t/${__data.fields.Topic-ID}

+ Add link

Edit link

Title

Link to topic

URL

https://community.grafana.com/t/${__data.fields.Topic-ID}

Open in new tab

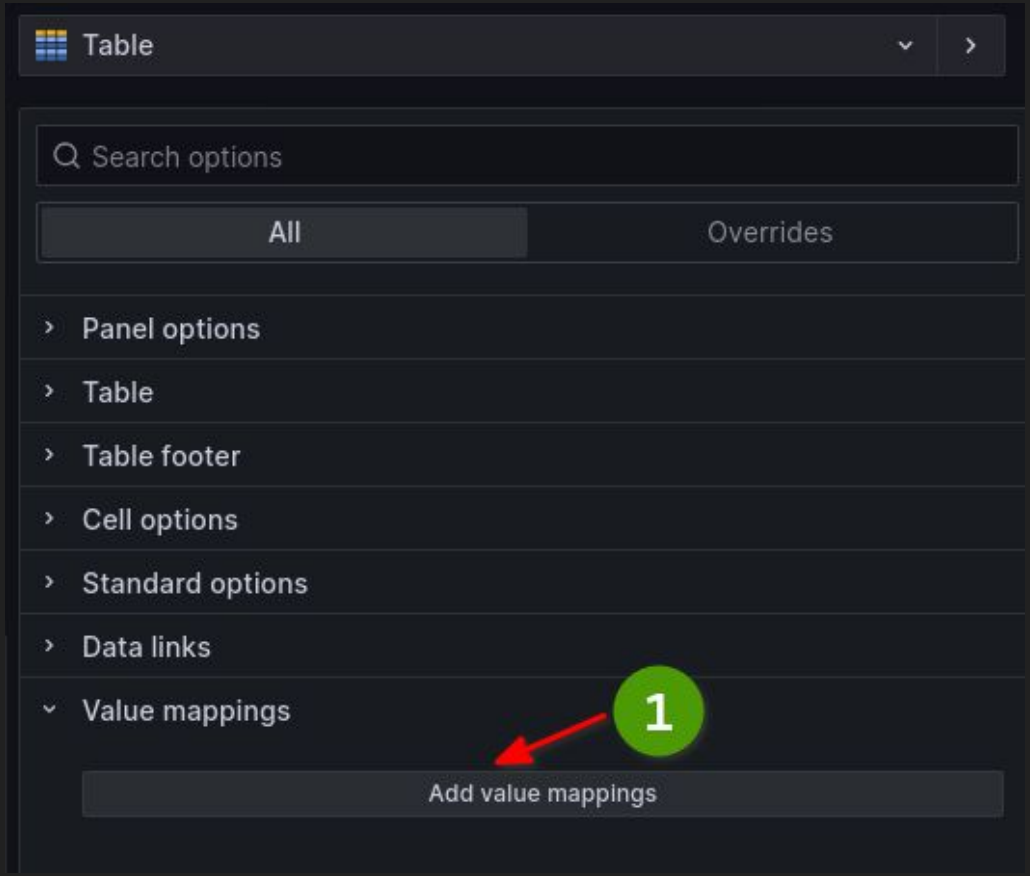
# Using Override - Data links

Panel Title

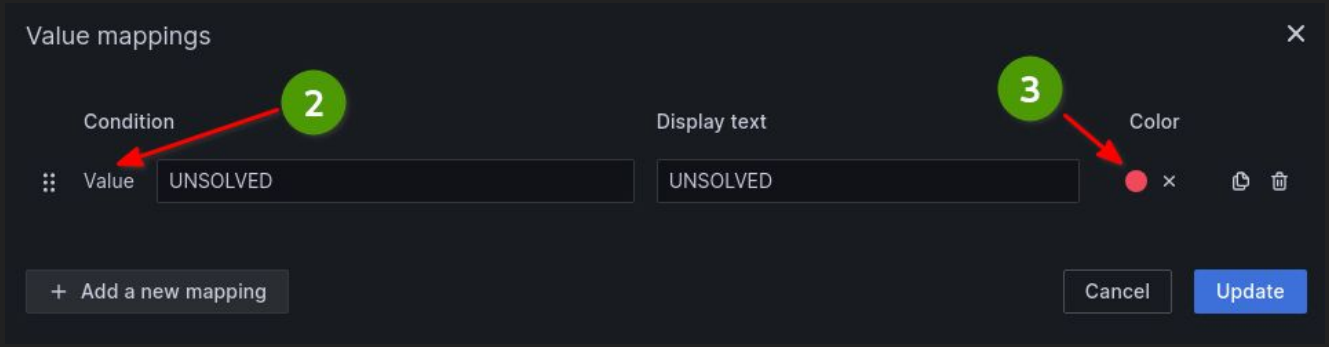
Link to the post

| Topic-ID | Title | Reply count | Total views | Last viewed | Status |
|---|---|---|---|---|---|
| 87028 | Database is locked | 1 | 1116 | 2023-05-13T10:37:16.185Z | UNSOLVED |
| 88090 | How can I get CPU usage ... | 7 | 824 | 2023-06-30T07:46:12.239Z | UNSOLVED |
| 86940 | How do you sum all like-n... | 2 | 657 | 2023-05-03T15:38:15.557Z | SOLVED |
| 90396 | Failed to evaluate queries ... | 2 | 598 | 2023-07-28T11:32:30.758Z | UNSOLVED |
| 89538 | Influxdb2: Combining last ... | 7 | 592 | 2023-06-21T16:33:38.259Z | SOLVED |
| 88901 | How to change the labels ... | 19 | 530 | 2023-06-07T12:04:06.496Z | UNSOLVED |

# Using Value mapping



# Using Value mapping




| Topic-ID | Title | Reply count | Total views | Last viewed | Status |
|---|---|---|---|---|---|
| 87028 | Database is locked | 1 | 1120 | 2023-05-13T10:37:16.185Z | UNSOLVED |
| 88090 | How can I get CPU usage for multiple servers withi... | 7 | 826 | 2023-06-30T07:46:12.239Z | UNSOLVED |
| 86940 | How do you sum all like-named rows? | 2 | 658 | 2023-05-03T15:38:15.557Z | SOLVED |
| 90396 | Failed to evaluate queries and expressions: input d... | 2 | 600 | 2023-07-28T11:32:30.758Z | UNSOLVED |
| 89538 | Influxdb2: Combining last + sum to get weekly valu... | 7 | 596 | 2023-06-21T16:33:38.259Z | SOLVED |
| 88901 | How to change the labels and color of the gauge p... | 19 | 534 | 2023-06-07T12:04:06.496Z | UNSOLVED |
| 87835 | Found duplicate series for match group | 0 | 519 | 2023-06-21T10:17:51.155Z | UNSOLVED |
| 86860 | Need to set variable in same dashboard when click... | 6 | 509 | 2023-05-02T20:21:19.966Z | SOLVED |

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# Dynamic Dashboard Variables

# Dynamic dashboard variables

Data source

Ad-hoc filters

Global variables

Interval

Query

Constant

Chained variables

Custom

Text Box

# Dashboard Variables - Query type

Home › Dashboards › Monitoring Status Dashboard  Add  Last 24 hours

1  2

Panel Title

| Topic-ID | Title | Reply count | Total views | Last viewed | Status |
|---|---|---|---|---|---|
| 87028 | Database is locked | 1 | 1121 | 2023-05-13T10:37:16.185Z | UNSOLVED |
| 88090 | How can I get CPU usage for multiple servers withi... | 7 | 829 | 2023-06-30T07:46:12.239Z | UNSOLVED |
| 86940 | How do you sum all like-named rows? | 2 | 659 | 2023-05-03T15:38:15.557Z | SOLVED |
| 90396 | Failed to evaluate queries and expressions: input d... | 2 | 607 | 2023-07-28T11:32:30.758Z | UNSOLVED |
| 89538 | Influxdb2: Combining last + sum to get weekly valu... | 7 | 598 | 2023-06-21T16:33:38.259Z | SOLVED |
| 88901 | How to change the labels and color of the gauge p... | 19 | 535 | 2023-06-07T12:04:06.496Z | UNSOLVED |
| 87835 | Found duplicate series for match group | 0 | 522 | 2023-06-21T10:17:51.155Z | UNSOLVED |
| 86860 | Need to set variable in same dashboard when click... | 6 | 510 | 2023-05-02T20:21:19.966Z | SOLVED |
| 87975 | When repeating a panel using a Dashboard Variabl... | 0 | 494 | 2023-05-19T20:45:31.713Z | SOLVED |

# Dashboard variables - Query type

Settings

General

Annotations

Variables 3

Links

Versions

Permissions

JSON Model

Select variable type

Query 4

## General

Name

The name of the template variable. (Max. 50 characters)

category 5 This is the variable name

Label

Optional display name

Category

Description

Descriptive text

Show on dashboard

Label and value | Value | Nothing

## Query options 6

Data source

Grafana Forum Data Explor

Query

Query Type: Infinity

Type: JSON | Parser: Backend | Source: URL

Method: POST | URL: https://community.grafana.com/admin/plugins/explorer/queries/19/run

# Dashboard variables - Query type

Home › Dashboards › Monitoring Status Dashboard

category | Enter variable value

- Alerting
- Announcements
- Announcements
- Authentication
- Azure Monitor
- Bar Chart Panel
- Bar Gauge Panel
- Blog Posts
- Cloud Support
- Cloudwatch
- Community Lounge
- Configuration
- Converters & Integrations
- Dashboards
- Data Links

Top 20 Post

| Topic-ID | Title | Reply count | Total views | Last viewed | Status |
|---|---|---|---|---|---|
| 89139 | Issue with Role Mapping in Grafana OAuth Configur... | 0 | 385 | 2023-JUN | SOLVED |
| 87869 | Anonymous access works in v8 but doesn't in v9 | 1 | 364 | 2023-MAY | SOLVED |
| 88713 | Can't login from firefox anymore | 7 | 304 | 2023-JUN | UNSOLVED |
| 88595 | Is it possible to match organization with `role_attri... | 7 | 255 | 2023-JUL | UNSOLVED |
| 86916 | SSO on multiple organizations | 1 | 242 | 2023-JUN | UNSOLVED |
| 89635 | Can I trust the "X-Grafana-User" header value? | 7 | 206 | 2023-JUN | UNSOLVED |
| 87526 | How to assign Access Role's to specific LDAP groups | 0 | 194 | 2023-JUL | UNSOLVED |
| 90771 | Configure auth.generic_oauth with AWS cognito | 1 | 194 | 2023-JUL | SOLVED |

# Creating dynamic Dashboards

Home › Dashboards › Monitoring Status Dashboard

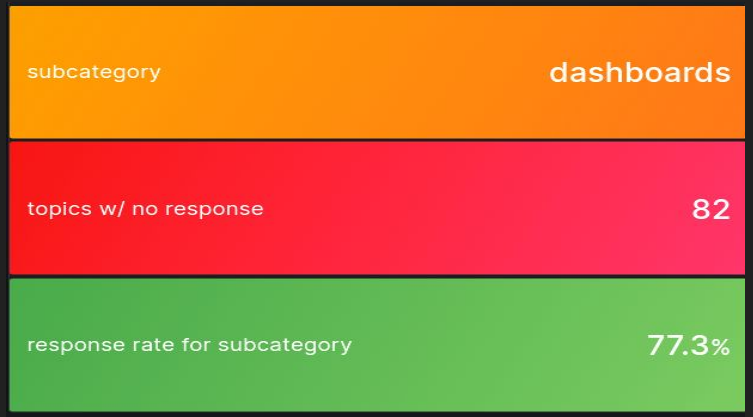
Add | Last 24 hours

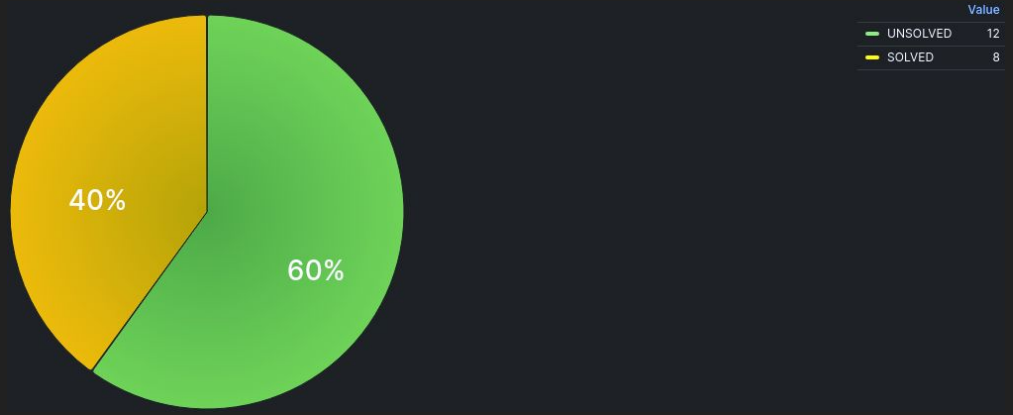
category | Announcements

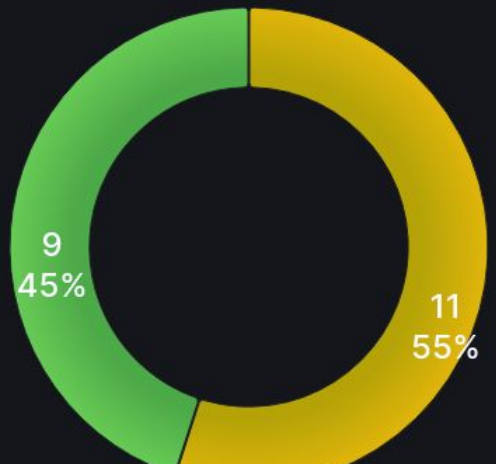
Panel Title

| Topic-ID | Title | Reply count | Total views ↓ | Last viewed | Status |
|---|---|---|---|---|---|
| 86860 | Need to set variable in same dashboard when click... | 6 | 543 | 2023-MAY | SOLVED |
| 87658 | Issue with Grafana's dashboard not loading properly | 1 | 482 | 2023-MAY | SOLVED |
| 87151 | Dashboard : An unexpected error happened | 2 | 454 | 2023-MAY | SOLVED |
| 86926 | Problems with Data Links in Grafana 9.5.1 - Docker | 3 | 438 | 2023-MAY | SOLVED |
| 87385 | I can't see FlowCharting diagrams | 2 | 425 | 2023-MAY | SOLVED |
| 90859 | How to exclude "no data" panels from repeating pa... | 39 | 423 | 2023-JUL | UNSOLVED |
| 88546 | Sum up only positive values of expression in time s... | 11 | 384 | 2023-JUN | SOLVED |
| 88738 | How to use multi-value custom variable in query ali... | 2 | 356 | 2023-JUN | UNSOLVED |
| 87948 | How to use plotly panel in Grafana? | 1 | 351 | 2023-JUN | SOLVED |

# Using different Panel Visualisation



# This is what you can design !!

Category: Alerting | Start Date: start of 2022q4 | End Date: end of 2023q1 | OLD-Category: alerting

## Community Forum Response Rates

### Response Rate per Category: from start of 2022q4 to end of...

| | |
|---|---|
| subcategory | alerting |
| topics w/ no response | 179 |
| response rate for subcategory | 61.3% |

### "Alerting" category: topics with no response: 22Q4

| Topic ID | Title |
|---|---|
| 75222 | "Count metrics resulting from grafana managed alert and multi series mysql query" |
| 75372 | "Alert Test Rule fails with working Teams Channel" |
| 75378 | "Listing alerts that are default grouped by importance doesn't work as expected" |
| 75709 | "After update to 9.2 could not get metrics from AWS Cloudwatch" |
| 75723 | "How to get time information and remove the source url" |
| 75757 | "Query alert is in 'alerting' state for ever" |
| 75842 | "Grafana Table Visualization in Pop Up (alert) On Selecting a filter" |
| 75952 | "Grafana alert (status code with 195,187 and etc.)" |

‹ 1 2 3 4 5 6 7 ··· 23 › 1 - 8 of 179 rows

### Top 20 Posts in Alerting Category: from start of 2022q4 to end of 2023q1

| Topic I | Title | Total Views ↓ | Reply Count | Last Posted At | Status |
|---|---|---|---|---|---|
| 76083 | Documentation of Alert Templating in Serious Need of Improvement! | 4088 | 80 | 2023-JUL | UNSOLVED |
| 75591 | Variables Formatting in Grafana Alerts | 3830 | 0 | 2022-NOV | SOLVED |
| 80988 | Working configuration example for alerts templating - Telegram and Slack | 3456 | 0 | 2023-MAY | SOLVED |
| 85019 | How to handle no data alert? | 2216 | 0 | 2023-APR | UNSOLVED |

# Takeaways

1. Extensive API Support
2. User-friendly Features
3. Officially Supported by us

SUCCESS
SOLUTION
PROBLEM

# Want to get involved?

1. To report bugs, feature-request:
   - GitHub repo

grafana-infinity-datasource

2. Other useful resources:
   - Slack channel #grafana
   - Community forum

#grafana

community.grafana.com

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# Thanks for participating!

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