WORKSHOP GARR 2023

NET MAKERS

stats.garr.net

L'osservabilità per gli utenti GARR-T

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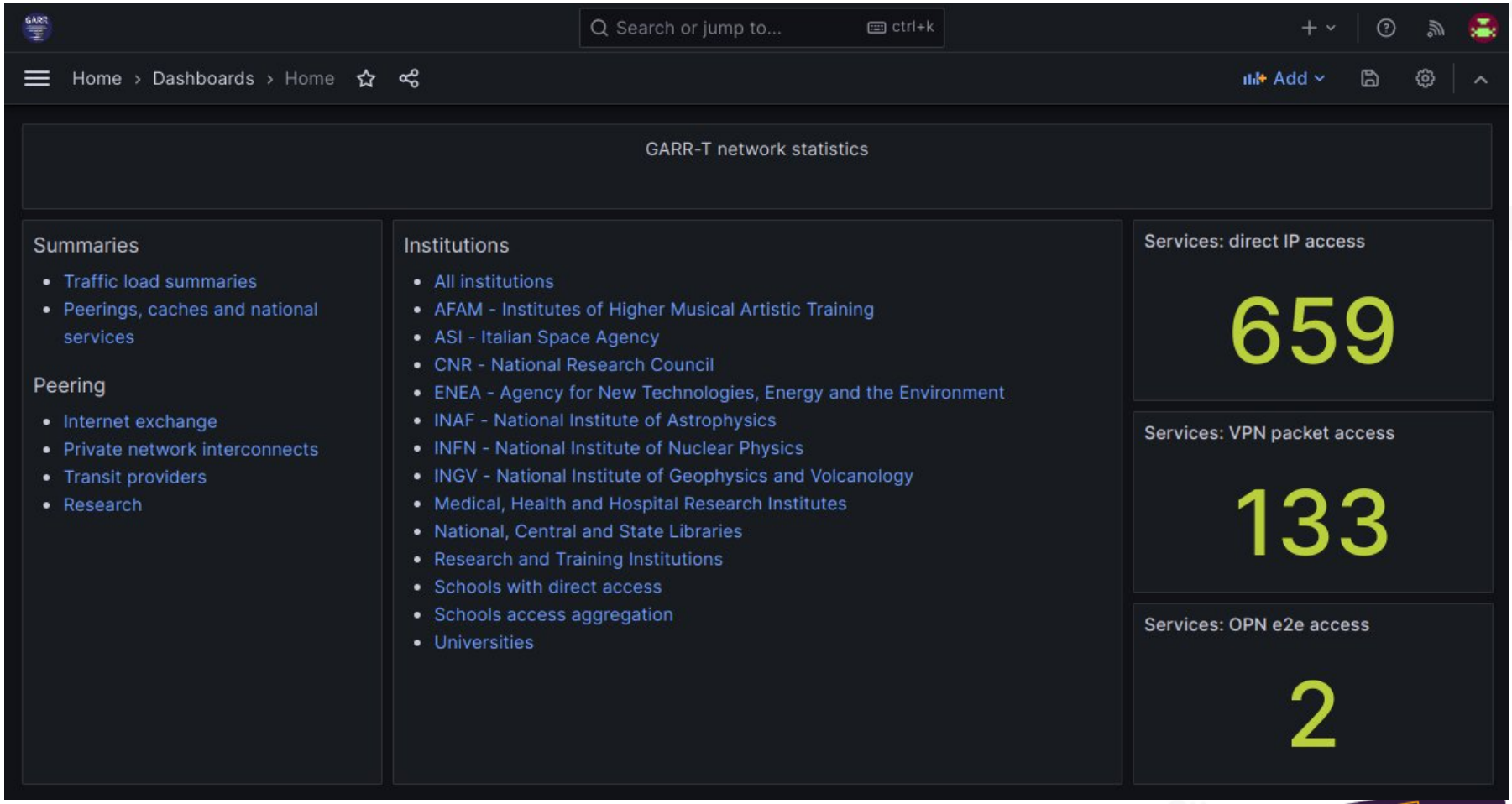
GARR

https://stats.garr.net

Statistiche pubbliche dei servizi di rete ad accesso diretto su rete GARR-T



Dashboard template

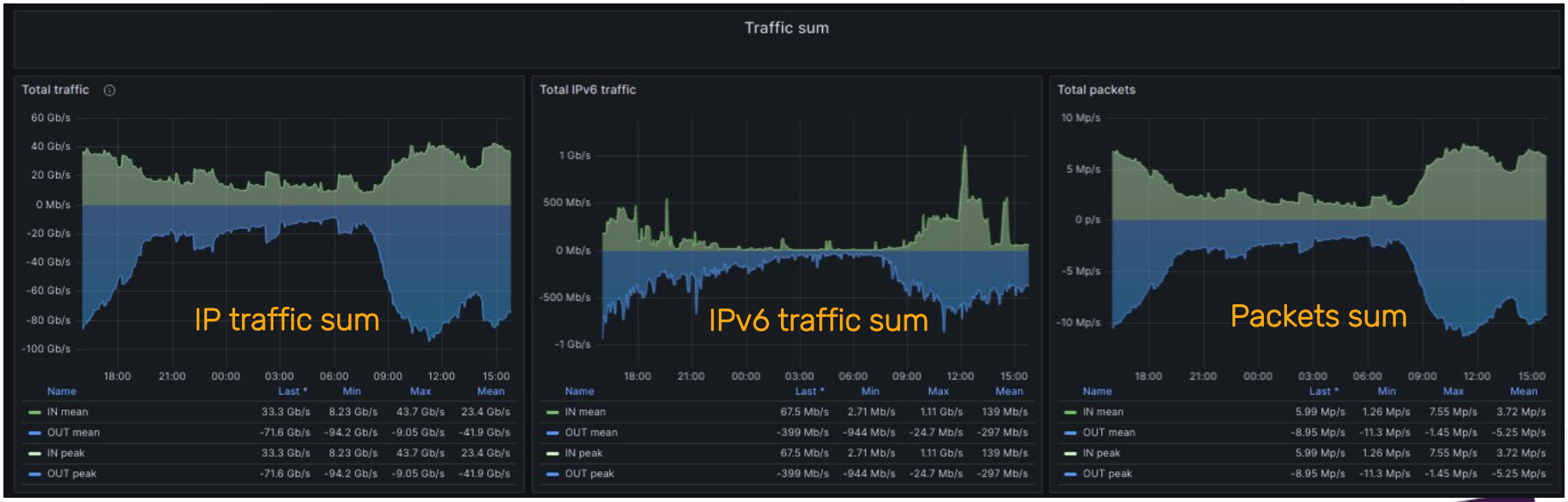
Summary

IP services count

IP services total capacity

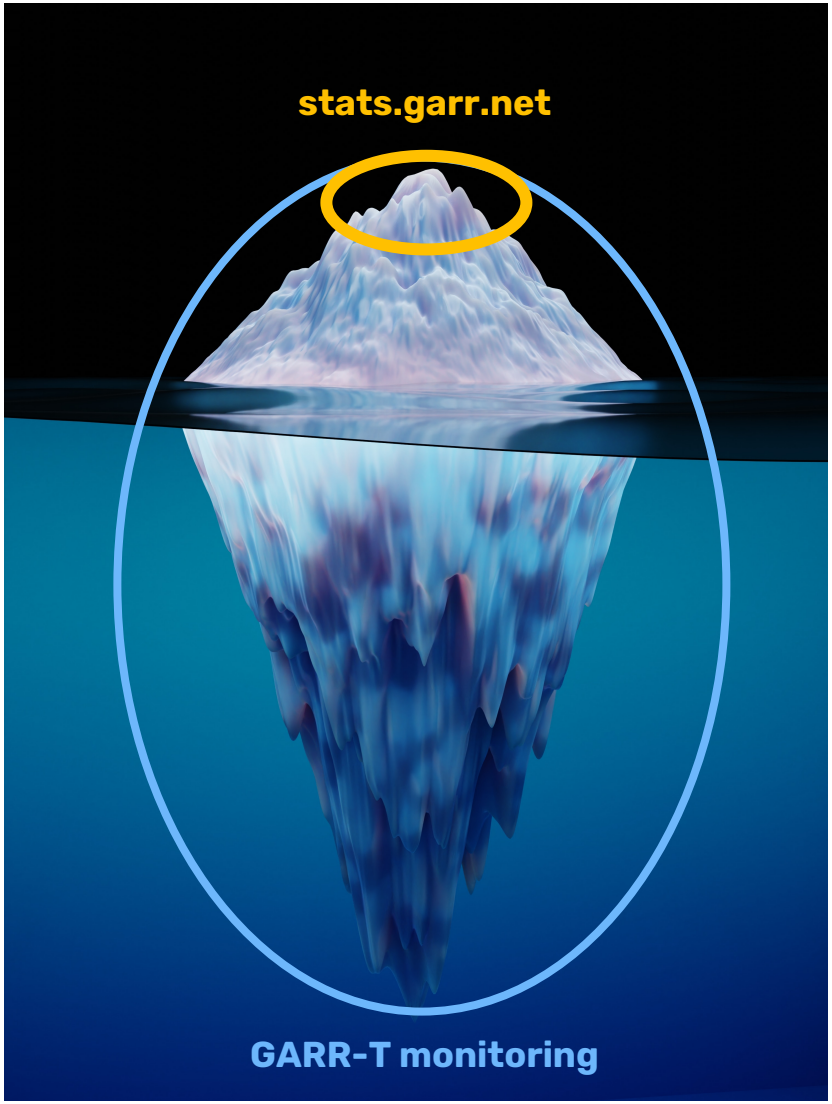
VPN services count

VPN services total capacity

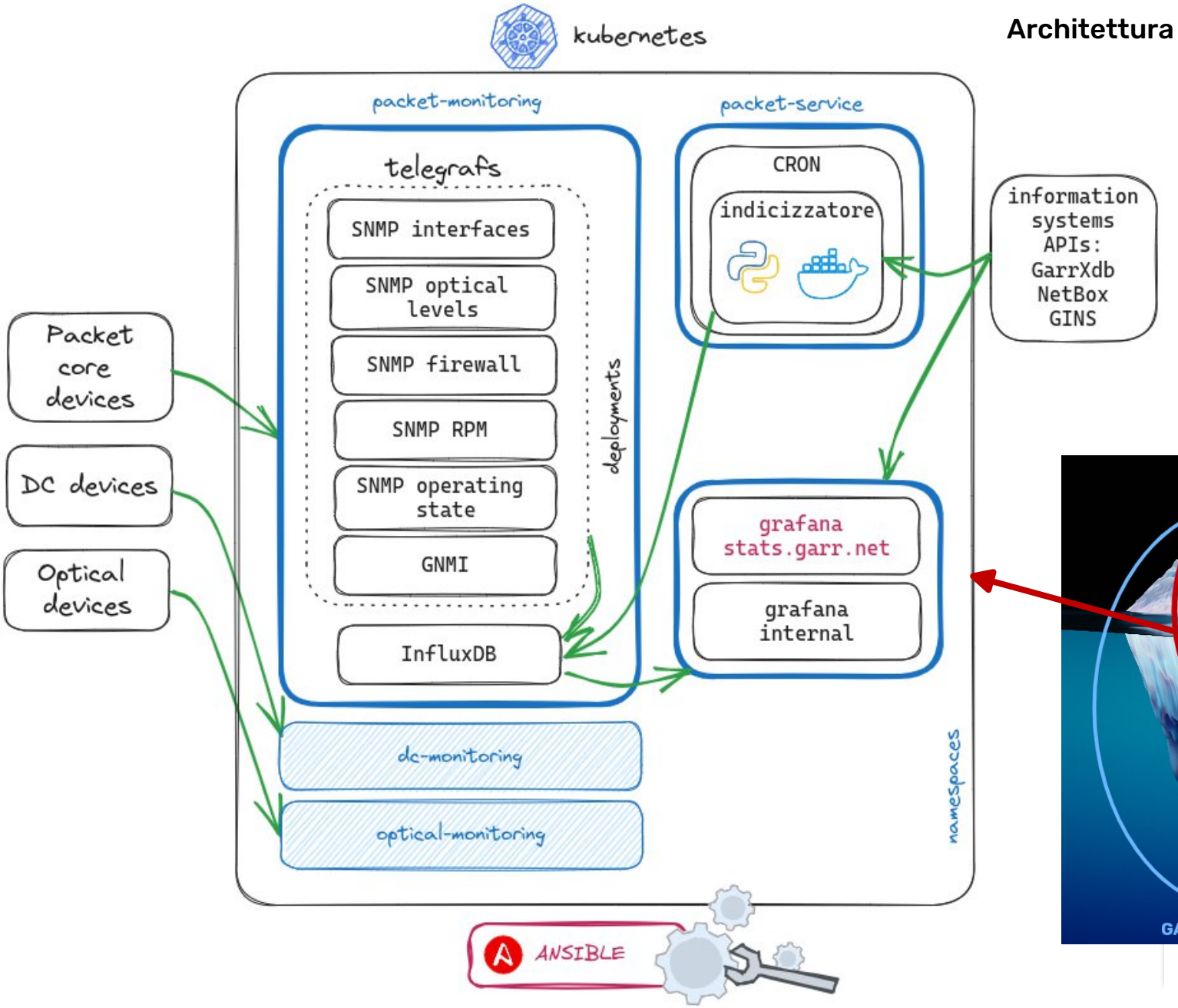


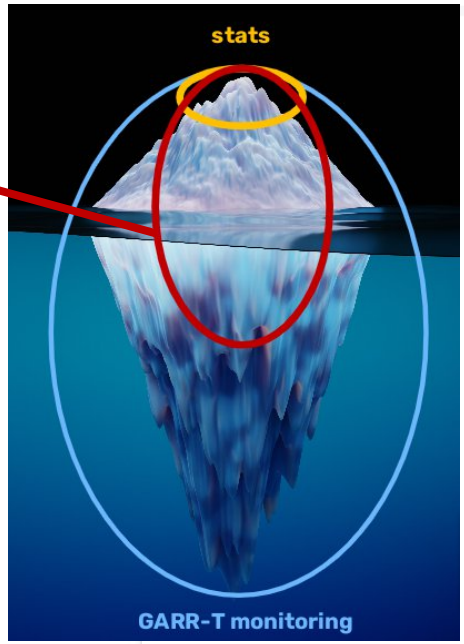
+ grafici per ogni servizio

GARR-T monitoring

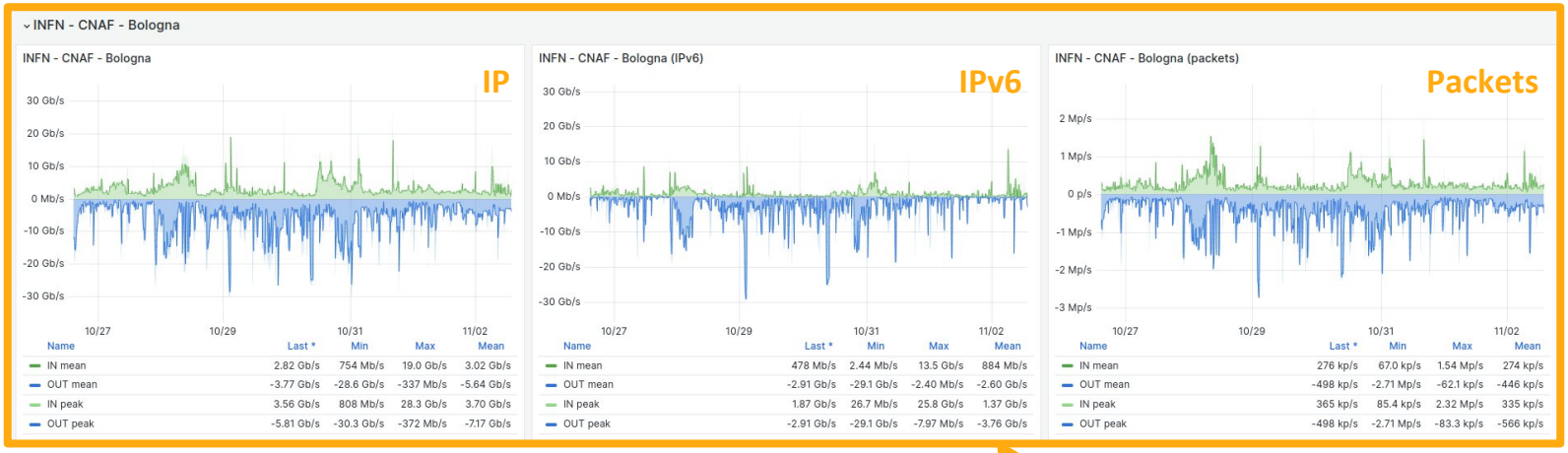


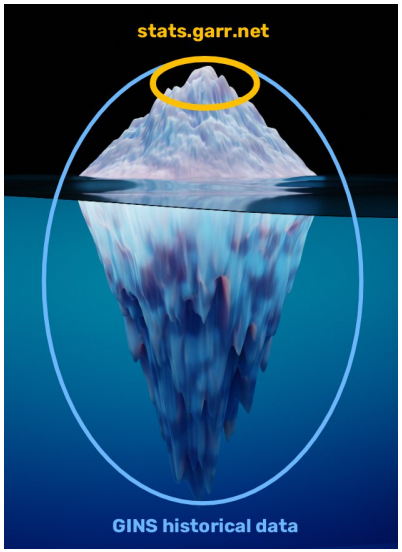
Architettura GARR-T monitoring





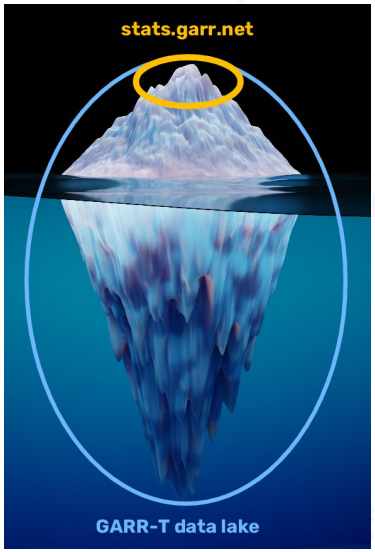
stats.garr.net current metrics



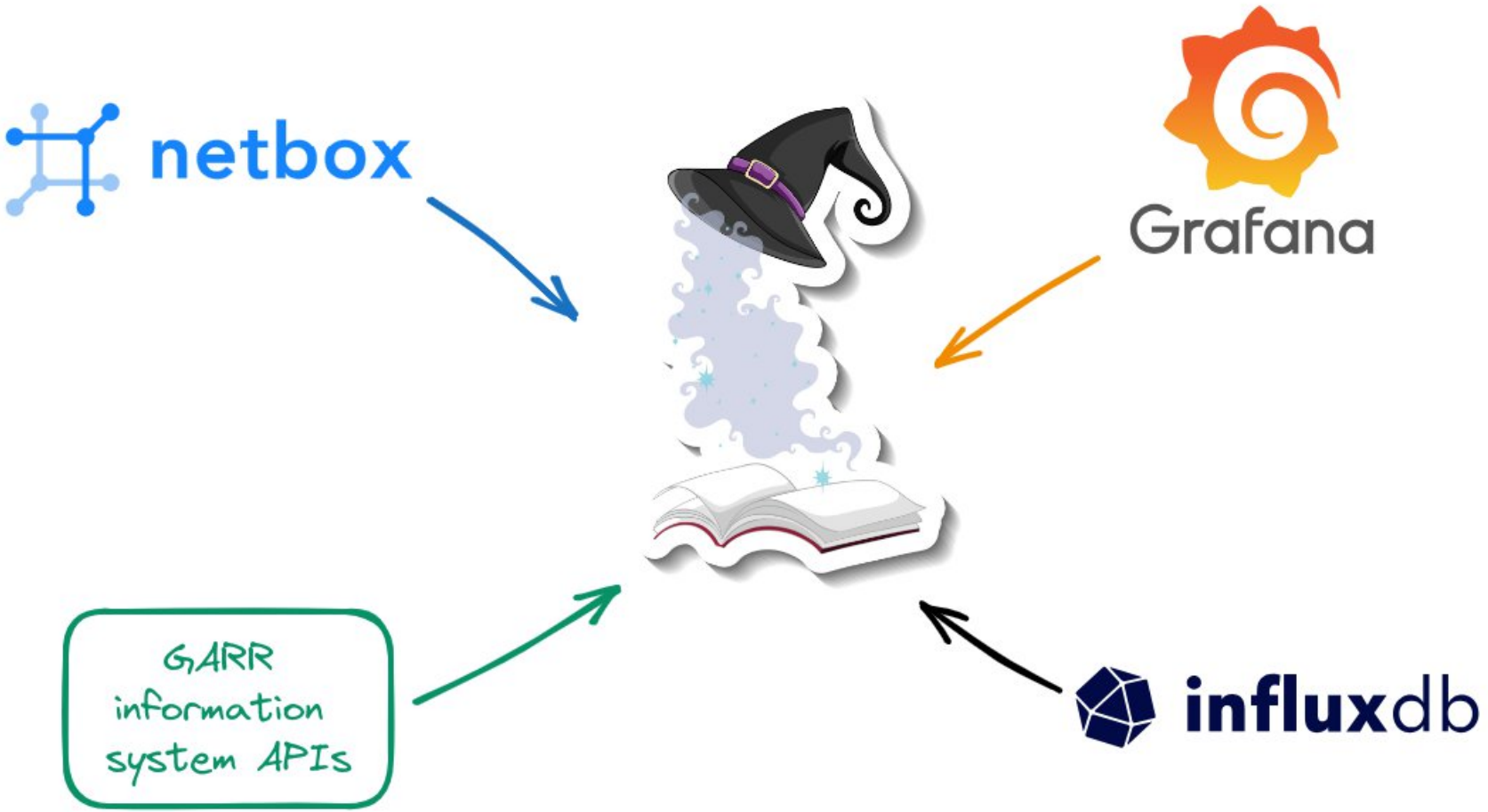


- 20 years of data retention
- monthly traffic reports volumes, 95th percentile

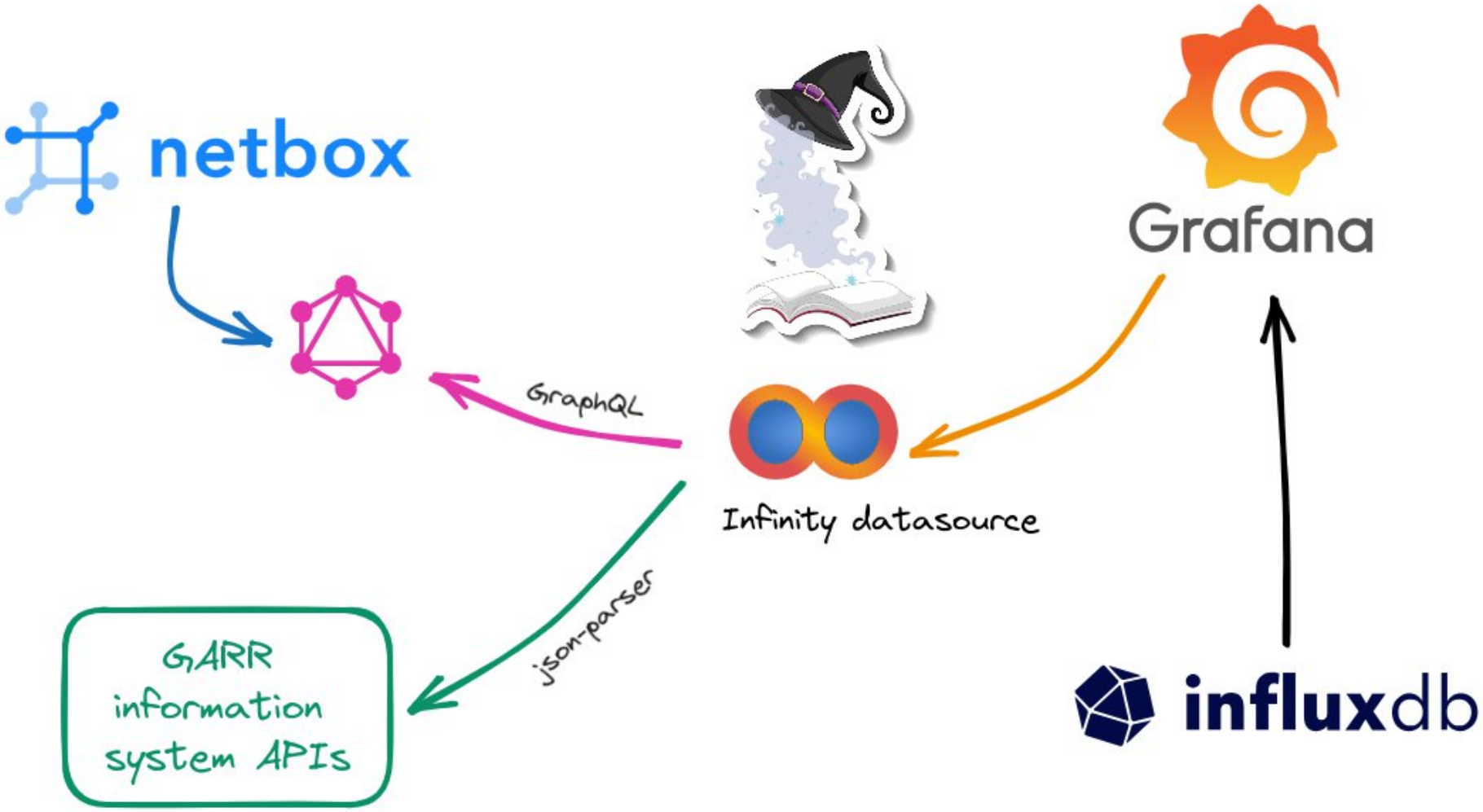
- IP, IPv6, packets
- Errors, drops
- power consumption
- temperature
- latency
- optical levels
- routing protocols
- fast rates 30'' (GNMI)



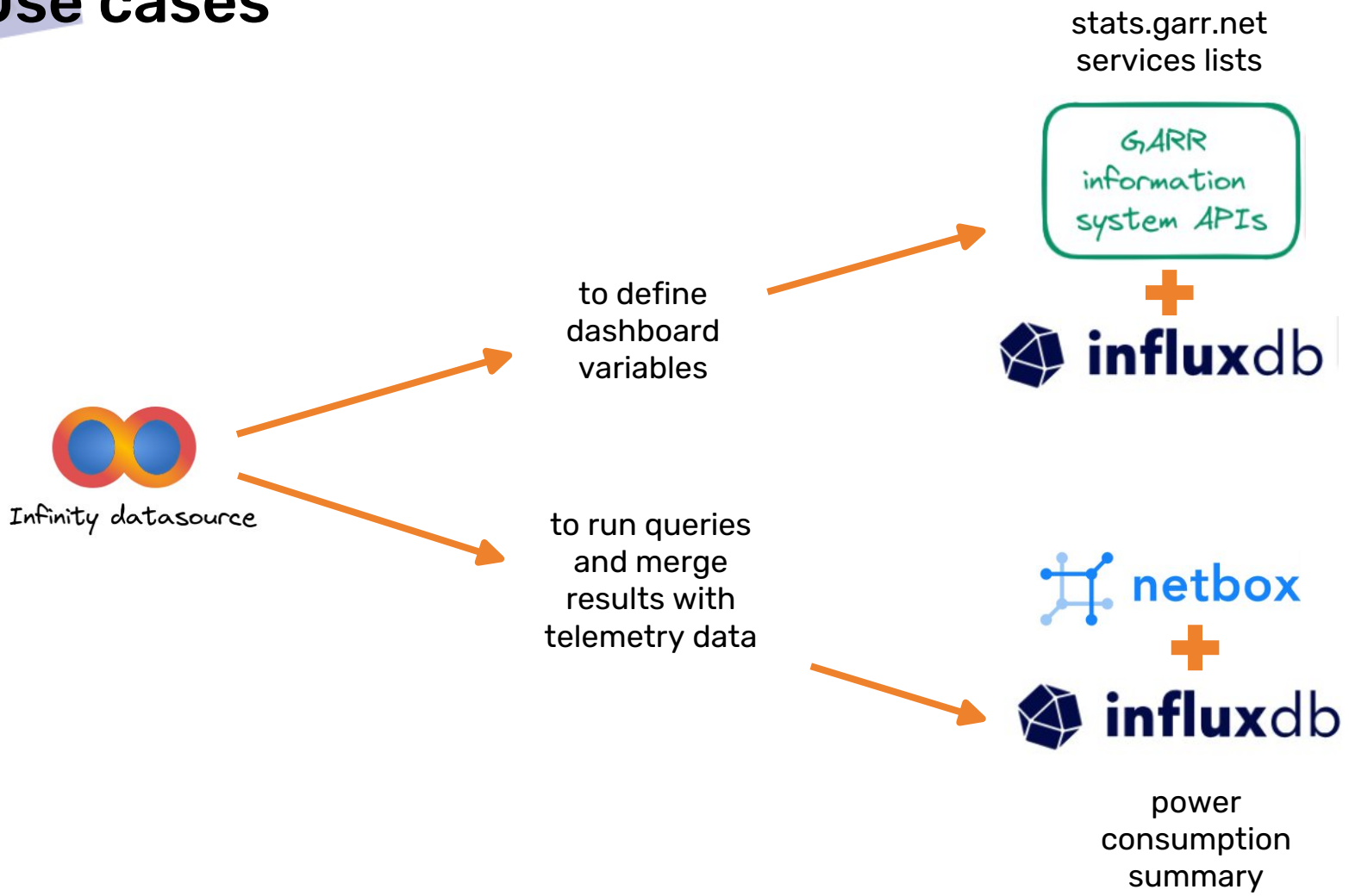
Low code: integration problem



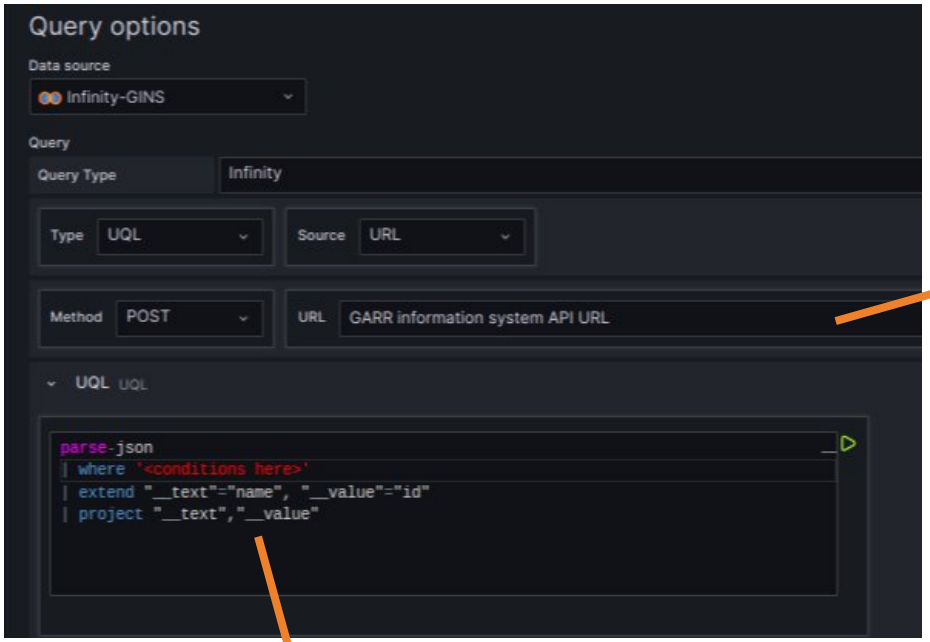
Low code: integration solution



Use cases


stats.garr.net
services lists
GARR information system APIs
influxdb
to define dashboard variables
Infinity datasource
to run queries and merge results with telemetry data
netbox
influxdb
power consumption summary

stats.garr.net dashboard variables



GARR information system APIs

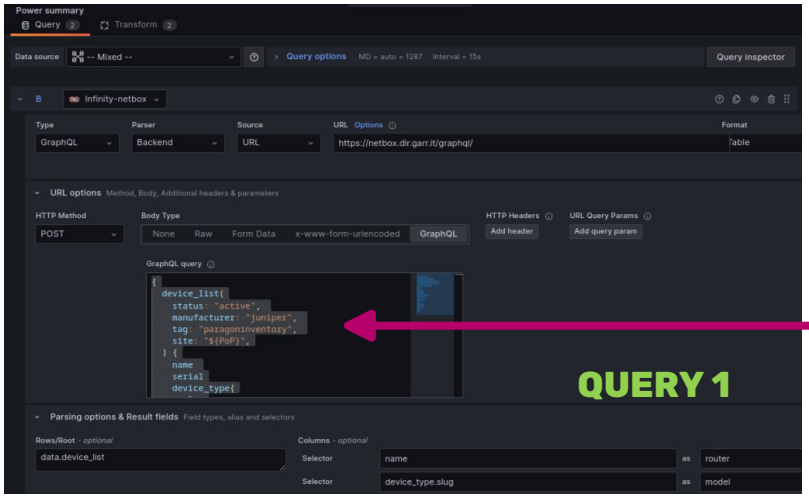
dashboard {k:v} variable

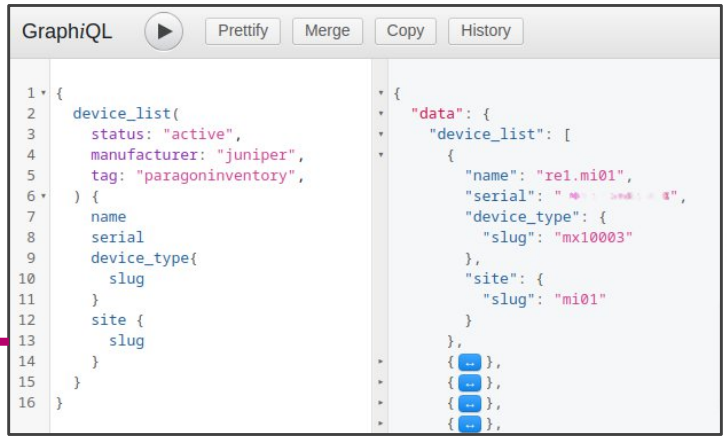
NetBox + Grafana Infinity datasource + InfluxDB

Grafana

Infinity datasource

netbox





Grafana

merge

Power consumption summary

Infinity datasource

Grafana

netbox

inventory data

influxdb

telemetry data

from: GARR-T moniotoring internal Grafana
soon on stats.garr.net

Grazie

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References:

https://sriramajeyam.com/grafana-infinity-datasource/

Images from:

https://unsplash.com/