GeoServer Monitor PostgreSQL Extension

Persist the monitoring metrics of your GeoServer in a PostgreSQL database

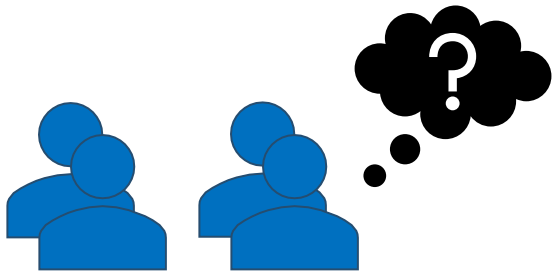
Imagine an instance of …

GeoServer

Several workspaces

Hundreds of layers

In use for 5+ years



Admins of the instance

Frequently requested layers?

Power users?

Slow layers

Unused layers?

„Ghost“ applications?

…

Sangeetha Shankar, German Aerospace Center (DLR), FOSS4G Europe, 2024-07-03

DOI: 10.5281/zenodo.12906275

GeoServer Monitor PostgreSQL Extension

Persist the monitoring metrics of your GeoServer in a PostgreSQL database

Imagine …

GeoServer

Several workspaces

Hundreds of layers

In use for 10+ years

Admins of the instance

Frequently requested layers?

Power users?

Slow layers

Unused layers?

„Ghost“ applications?

…

Solution? → Monitoring!

Sangeetha Shankar, German Aerospace Center (DLR), FOSS4G Europe, 2024-07-03

DOI: 10.5281/zenodo.12906275

GeoServer Monitor PostgreSQL Extension

Persist the monitoring metrics of your GeoServer in a PostgreSQL database

Existing options for monitoring:

Monitoring extension	Memory Storage	Stores metrics of the last 100 requests; volatile storage
	Audit Logging	Requires secondary application(s) to process the audit logs
Hibernate extension		Unavailable for the recent versions of GeoServer; unmaintained

Sangeetha Shankar, German Aerospace Center (DLR), FOSS4G Europe, 2024-07-03

DOI: 10.5281/zenodo.12906275

GeoServer Monitor PostgreSQL Extension

Persist the monitoring metrics of your GeoServer in a PostgreSQL database

Monitoring extension	Memory Storage	Stores metrics of the last 100 requests; volatile storage
	Audit Logging	Requires secondary application(s) to process the audit logs
Hibernate extension		Unavailable for the recent versions of GeoServer; unmaintained

GeoServer Monitor PostgreSQL module (open source)

Link: https://github.com/DLR-TS/GeoServer-Monitor-PostgreSQL

- Extends the GeoServer monitoring extension
- Simple, low-level approach to write monitoring metrics to a PostgreSQL database
- Lesser dependency on external modules; thus easy to maintain and update

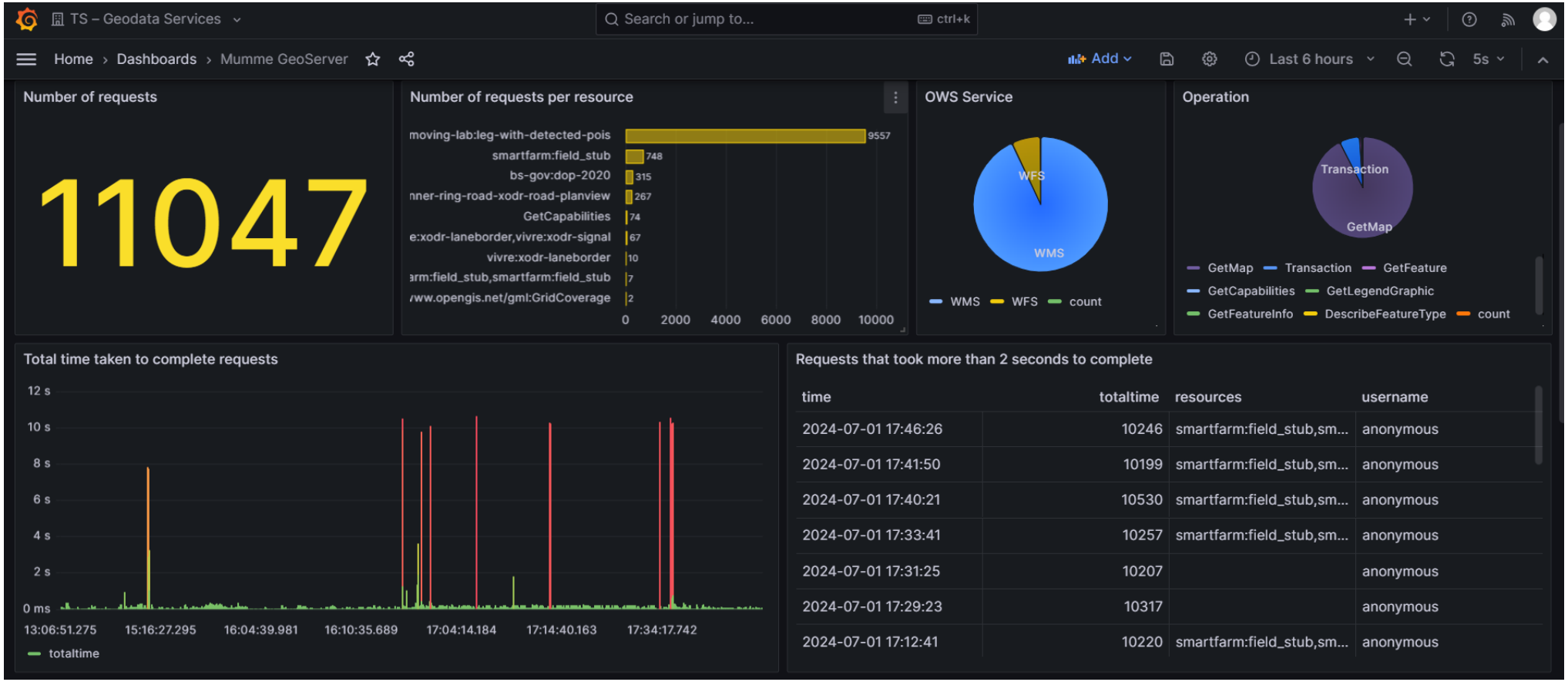
Sangeetha Shankar, German Aerospace Center (DLR), FOSS4G Europe, 2024-07-03

DOI: 10.5281/zenodo.12906275

GeoServer Monitor PostgreSQL Extension

Persist the monitoring metrics of your GeoServer in a PostgreSQL database

Deployed in DLR-TS and operational since October 2022. Metrics are visualized on Grafana.



DOI: 10.5281/zenodo.12906275

Imprint

Topic:	**GeoServer Monitor PostgreSQL Extension** – Persist the monitoring metrics of your GeoServer in a PostgreSQL database.
Date:	2024-07-03
Author:	Sangeetha Shankar (Sangeetha.Shankar@dlr.de)
Organization:	Institute of Transportation Systems, German Aerospace Center (DLR)
Image sources:	All images “DLR (CC BY-NC-ND 3.0)” unless otherwise stated
Funding:	This work is being carried out as a part of the DLR-funded cross-domain project “Digitaler Atlas 2.0” (2022-2025)

DOI: 10.5281/zenodo.12906275