

# Jan Garaj – Observability | Devops | SRE | AWS | Kubernetes | AI

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[GitHub projects](#)

[Docker Hub images](#)

[Grafana projects](#)

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## Summary

- 5 000+ GitHub stars / 1 000+ forks of GitHub projects
- 60 000 000+ downloads of Grafana AWS dashboards
- 72 000 000+ downloads of public Docker images
- Official Grafana Champion from 2023
- Observability/monitoring/AI knowledge
- Automation with Cloudformation, Terraform
- Devops/SRE focus
- Docker orchestration – Kubernetes and AWS ECS

## My own public Devops projects

based on my Devops, SRE needs, published under Monitoring Artist company name



- Grafana AWS CloudWatch dashboards – [www.github.com/monitoringartist/grafana-aws-cloudwatch-dashboards](https://www.github.com/monitoringartist/grafana-aws-cloudwatch-dashboards)  
Set of popular predefined AWS dashboards for 30+ different AWS resources, which I use in my daily work
- OpenTelemetry Collector dashboard - <https://grafana.com/grafana/dashboards/15983-opentelemetry-collector/>  
Dashboard to visualize performance/errors/scaling of OpenTelemetry collector operations across all signals
- Zabbix XXL – [www.github.com/monitoringartist/dockbix-xxl](https://www.github.com/monitoringartist/dockbix-xxl)  
Dockerized Zabbix – server, web, proxy, java gateway, snmpd with Docker monitoring support
- Dockbix – Zabbix agent XXL – [www.github.com/monitoringartist/dockbix-agent-xxl](https://www.github.com/monitoringartist/dockbix-agent-xxl)  
Dockerized Zabbix agent with support for Docker container metrics and Docker host OS metrics support
- Zabbix Docker Monitoring – [www.github.com/monitoringartist/zabbix-docker-monitoring](https://www.github.com/monitoringartist/zabbix-docker-monitoring)  
Zabbix C module and template for low level Docker/Mesos/Chronos/Marathon container monitoring, C module provides high performance with low footprint, Low level discovery concept is used for automated Docker container detection.
- Zabbix Systemd Monitoring – [www.github.com/monitoringartist/zabbix-systemd-monitoring](https://www.github.com/monitoringartist/zabbix-systemd-monitoring)  
Systemd monitoring of running systemd units
- Grafana XXL Docker image – [www.github.com/monitoringartist/grafana-xxl](https://www.github.com/monitoringartist/grafana-xxl)  
Docker image of Grafana with all available plugins: Zabbix, DalmatinerDB, Ambari, Atsd, Bosun, Druid, ...
- Zabbix templates image – [www.hub.docker.com/r/monitoringartist/zabbix-templates/](https://www.hub.docker.com/r/monitoringartist/zabbix-templates/)  
Tiny image (5MB) written in Go for easy Zabbix template deployment
- Docker killer – [www.github.com/monitoringartist/docker-killer](https://www.github.com/monitoringartist/docker-killer)  
Docker stress and Docker orchestration/monitoring testing
- Monitoring Analytics – [www.github.com/monitoringartist/monitoring-analytics](https://www.github.com/monitoringartist/monitoring-analytics)  
Dockerized R statistical computing and graphic tool for monitoring metrics from data scientists

## Observability engineer – contract (AWS, Azure, Kubernetes, Grafana, Loki)

September 2022 – present

KKR & Co. Inc., USA, [www.kkr.com](http://www.kkr.com)

- Member of Delivery team with focus on monitoring/observability
- Observability implementation (metrics, logs, traces) across all company products/divisions: public/private market, infra
- AI implementation in the observability area at enterprise level: AI agents, MCP servers, RAG, ...
- Automated Prometheus service and server discoveries, enhancing monitoring capabilities for Enterprise Grafana
- Full Kubernetes clusters (20+) observability based on opensource tools and OpenTelemetry protocol
- Kubernetes eBPF-based auto-instrumentation tool that captures RED metrics (Rate-Error-Duration) and basic trace spans for Linux HTTP/S and gRPC services without any modifications to application code or configuration
- Design of OpenTelemetry concept and implementation based on OpenTelemetry collector (gRPC/HTTP)
- Real user (frontend) monitoring and OTEL auto instrumentation of backends/platforms
- SLO (Service Level Objective) monitoring and error budgeting based on load balancer app metrics
- Creating of Terraform modules for monitoring of apps and clusters
- Achieved 30% cost reduction in monitoring signals through optimized tooling
- Used technologies: AWS, EKS, Azure, Kubernetes, Grafana Enterprise, Loki, Mimir, Tempo, Python, Golang, Terraform, Helm, LogicMonitor, ...

## Devops Kubernetes engineer – remote contract (Docker, AWS, Keycloak)

July 2017 – August 2022

Volkswagen, Germany, [volkswagen.com](http://volkswagen.com)

- Implementation of Identity & Access Management (IAM) and Single Sign-On (SSO) for whole Volkswagen Group – based on hybrid VW cloud OpenStack/AWS/GCP/Docker swarm – standards: OpenID Connect, OAuth and SAML protocol, SSL/TLS/HTTPS
- Selfservice development based on open standards – broker based on Open Service Broker API
- Customer support: issue investigation, fix/security recommendations, fixing of defects, anomaly detection, ...
- Observation/monitoring strategy: metrics – Zabbix, traces – AWS X-Ray, logs – Elasticsearch stack, visualization – Grafana, preference of OpenTelemetry standards
- Deployment: Kubernetes, Cloud Foundry, Bamboo, Bitbucket, Concourse, ...
- Used technologies: AWS, AWS serverless stack: API GW/ECS Fargate/Lambda, Docker, Golang, Kubernetes, Cloud Foundry, Red Hat Keycloak, Node.js, Vue.js, Python, Grafana, Elasticsearch stack, AWS Redshift ...





**Devops microservice engineer – contract (Docker, microservices, AWS)**

April 2016 – June 2017

StepStone (UK brands: TotalJobs, Jobsite, CWJobs, CityJobs,...), London, United Kingdom, [www.stepstone.com](http://www.stepstone.com)

- Terraform infrastructure provisioning, Puppet server automation
- AWS cloud infrastructure/Docker support for NodeJS/Python/Scala/Java microservice developers/data scientists
- Dockerized pipeline processing/monitoring (Big Data – 1TB+ datasets)
- AWS Lambda function development/serveless monitoring
- Used technologies: AWS, ECS, Docker, Mesos, Marathon, Chronos, Neo4j, Elasticsearch, Mongo, Hadoop, R,...



**Devops engineer – contract (Docker, physical servers)**

July 2015 – March 2016

Multiplay, London, United Kingdom, [www.multiplay.com](http://www.multiplay.com)

- Development/deployment and monitoring of new Dockerized infrastructure
- Docker support for Go/NodeJS/Python development team
- Used technologies: Docker, Kubernetes, PureStorage, Puppet, iSCSI, IPXE, HW servers,...



**Devops in monitoring team (Zenoss, Docker, Python, Puppet, Linux, AWS)**

February 2014 – June 2015

BBC – OTG (Online Technology Group), London, United Kingdom, [www.bbc.co.uk](http://www.bbc.co.uk)

- Development / operations (devops) of monitoring systems for all digital BBC products and infrastructure (web/streaming)
- Responsibility for operations of ~50 monitoring servers (CentOS, RHEL), managed by Puppet/Hiera/Ansible
- Zenoss 5 migration project: monitoring system based on Docker and Big Data (HBase – OpenTSDB, Redis)
- Monitoring of production environment: 900k+ datapoints, 2k+ devices, the busiest device 12k+ datapoints
- Development of customised platform monitoring ZenPacks: CPU utilisation, HDD utilisation, TCP states, forks, NTP,...
- Used technologies: Zenoss, Docker, Python, Linux, bash, AWS, Puppet, Ansible, RabbitMQ, CDN, Jenkins, Jira,...



**Digital applications support - contract (Java, .Net, Linux, Windows)**

April 2013 – September 2013

GlaxoSmithKline, London, United Kingdom, [www.gsk.com](http://www.gsk.com)

- Coordination of digital activities (server/website development, testing, releasing, scripting) between brand department, digital agencies and DevOps server (hosting) department
- Used technologies: Java – JSP (Websphere), .Net, MS SQL, Oracle, Linux, CDN (Akamai)



**Linux 2<sup>nd</sup> line support specialist (Linux, Red Hat, Zabbix)**

November 2012 – January 2013

Volkswagen, Slovakia, [www.vw.sk](http://www.vw.sk)

- Fixed short-term contract for Hewlett-Packard Bratislava, dedicated onsite Linux support for Volkswagen Slovakia
- Standard 2<sup>nd</sup> line workload: shell scripting, daily checks/incidents, server migrations, network issues, monitoring
- Incident and change management (ITIL) for internal cloud: Red Hat (app cluster), HP-UX, AIX servers
- Used technologies: HP OpenView Performance Agent, HP OpenView Operations, Zabbix, EMC, NetApp



**Support of Server Automation/Client Automation (automation)**

November 2011 – May 2012

Hewlett-Packard, Slovakia, [www.hp.com](http://www.hp.com)

- Worldwide L1/L2 ITIL support/administration for server software (patch/inventory/software/deployment management with using security/app/patch policies): Server Automation – Opware/HP Client Automation – RADIA / equivalent of configuration management tool – Puppet
- Monitoring, administration, operation/incident management on level L2 on assigned RADIA infrastructure (WIN/Linux)
- Used technologies: Server/Client Automation Linux, Windows, WMI, Java



**DevOps coordinator (Linux, Zabbix, PHP, Apache, Nginx, MySQL)**

January 2011 – September 2011

Zoznam, Slovakia, [www.zoznam.sk](http://www.zoznam.sk)

- 2.5 millions real web users per month, agile in-house development, large-scale web services with high availability
- Responsibility for the server availability, monitoring (Zabbix) and improvements of (physical, virtual) servers
- Used technologies: Linux, CentOS, Solaris, FreeBSD, Windows, MySQL (with replications), Apache, Nginx, IIS, HTML, JavaScript, CSS, load balancer NetScaler/HAProxy, memcached/Varnish

**Education**



**Faculty of Informatics and Information Technologies,**

September 2004 – June 2009

**Slovak university of technology in Bratislava,** Slovakia, [www.fiit.stuba.sk](http://www.fiit.stuba.sk)

University education, master level (MEng): Software engineering

University education, bachelor level (BEng): Information technology

Engineering thesis: Positive feedback in computer supported group learning (implementation in Moodle)

Accredited Course of British Engineering Council UK, accredited by The Institution of Engineering and Technology

**Trainings and certifications**

Cribl Certified Observability Engineer (CCOE) Stream Admin/User

Zabbix Certified Professional

LogicMonitor certification badges (Edwin AI, AIOps Adoption, Resource Management, Alerts, ...)