Jan Garaj – DevOps | AWS | IAM | Cloud | Docker | Kubernetes

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Summary

- **5 000+ GitHub stars** / 1 000+ forks of GitHub projects
- **12 000 000+** downloads of **Grafana** AWS dashboards
- **72 000 000+** downloads of public **Docker** images
- Docker/host/service/app/**cloud** monitoring

- Serverless concept – **AWS Lambda, ECS** development
- **Automation** with Cloudformation, Terraform,
- **Docker** – 5+ years of commercial experience
- **Docker** orchestration – **Kubernetes** and **AWS ECS**

My own public Devops projects

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

- **Grafana AWS CloudWatch dashboards** – www.github.com/monitoringartist/grafana-aws-cloudwatch-dashboards
  Set of popular predefined AWS dashboards for 30+ different AWS resources
- **Zabbix XXL** – 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
  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
  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
  Systemd monitoring of running systemd units
- **Kubernetes Zabbix/Grafana cluster** – www.github.com/monitoringartist/kubernetes-zabbix
  Zabbix monitoring with Grafana visualisation infrastructure in Kubernetes cluster
- **Grafana XXL Docker image** – 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/
  Tiny image (5MB) written in Go for easy Zabbix template deployment
- **Docker killer** – www.github.com/monitoringartist/docker-killer
  Docker stress and Docker orchestration/monitoring testing
- **Monitoring Analytics** – www.github.com/monitoringartist/monitoring-analytics
  Dockerized R statistical computing and graphic tool for monitoring metrics from data scientists

Work experience

Devops Kubernetes engineer – remote contract (Docker, AWS, Keycloak)   *July 2017 – present*
Volkswagen, Germany, 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, ...

Devops microservice engineer – contract (Docker, microservices, AWS)   *April 2016 – June 2017*
StepStone (UK brands: TotalJobs, Jobsite, CWJobs, CityJobs,...), London, United Kingdom, www.stepstone.com
- Terraform infrastructure provisioning, Puppet server automation
- AWS cloud infrastructure/Docker support for NodeJS/Python/Scala/Java microservice developers/data scientists
- Zero downtime deployments and CI jobs maintenance
- Dockerized pipeline processing/monitoring (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
- 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

- 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

- 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 2nd line support specialist (Linux, Red Hat, Zabbix) *November 2012 – January 2013*

Volkswagen, Slovakia, www.vw.sk

- Fixed short-term contract for Hewlett-Packard Bratislava, dedicated onsite Linux support for Volkswagen Slovakia
- Standard 2nd 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

- Worldwide L1/L2 ITIL support/administration for server software (patch/inventory/software/deployment management with using security/app/patch policies): Server Automation – Opsware/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

- 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

IT Developer (Linux, Zabbix, XenServer, PHP, MySQL) *September 2009 – December 2010*

WIMC, Slovakia, www.wimc.sk

- Development and maintenance of information system for monitoring objects (vehicles, persons) based on GPS/GSM/GPRS technologies, frontend technology PHP (Zend framework)
- Virtualisation project (from scratch) based on Citrix XenServer – administration of hypervisor and virtual servers based on Debian, CentOS, FreeBSD, iSCSI storage QNAP
- Administration of Linux/Windows servers, optimisation of DB performance, monitoring tasks
- Monitoring of servers with Zabbix – developing of Zabbix custom scripts

Education

Faculty of Informatics and Information Technologies, *September 2004 – June 2009*
Slovak university of technology in Bratislava, Slovakia, 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

10/2014 Software development with Scrum/Continuous Integration (CI)
06/2014 Architecting on AWS – Amazon Web Services (EC2, ELB, SQS, SNS,...)
04/2014 Zabbix Certified Professional
04/2012 HP Operation Orchestration 9.x Essential Adv. Authoring and Integration, Hewlett-Packard Bratislava
02/2012 HP Server Automation – Server management, Hewlett-Packard Bratislava
01/2005 Cisco Networking – CCNA 1, Slovak university of technology in Bratislava