Jan Garaj – DevOps | Docker | Kubernetes | AWS | Zabbix | Monitoring

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Expertise

- **Docker** – 2+ years of commercial experience
- **Docker** orchestration – **Kubernetes** and **AWS ECS**
- **1000+ GitHub stars** / 250+ forks of my public projects
- **Devops** continuous integration and deployment
- Docker/host/service/app **monitoring**
- **Automation** with Puppet and Ansible
- Top **Grafana dashboard** publisher
- **Docker** image development and optimization

My own Docker monitoring ecosystem

- **Zabbix XXL** – www.github.com/monitoringartist/zabbix-xxl
  Dockerized Zabbix – server, web, proxy, java gateway, snmpd with additional extensions for easy deployment
- **Zabbix agent XXL** – www.github.com/monitoringartist/zabbix-agent-xxl
  Dockerized Zabbix agent with support for:
  - **Zabbix Docker Monitoring** – www.github.com/monitoringartist/zabbix-docker-monitoring
  Zabbix C module and template for low level Docker container monitoring, C module provides high performance with low footprint, Low level discovery concept is used for automatic Docker container detection. Prepared also for Mesos with Chronos and Marathon framework
  - **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 3.0 monitoring with Grafana visualization 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 microservice/monitoring engineer (Docker, Kubernetes, Zabbix, Go microservices) *July 2015 – current*
Monitoring Artist, London, United Kingdom, https://monitoringartist.com
Own company, which provides DevOps and monitoring services. All public projects published on GitHub
https://github.com/monitoringartist. Selection of projects/clients:
- **Multiplay** – e-gaming hosting company: 8 months on site Devops role, help with development and deployment of new Dockerized infrastructure, main app stack: Python/Django, Golang, Puppet, Kubernetes, AWS/GCS, ...
- **Autodesk** – (products AutoCAD, Maya, ...): remote monitoring consultancy focused on Zenoss and Zabbix
- **Stepstone** – job board company with presence in 21 countries and 26 million CVs: speed improvement/automation and monitoring of Dockerized pipeline based on Mesos and NodeJS/Java/Golang apps, Consul service auto-discovery

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 customized platform monitoring ZenPacks: CPU utilization, HDD utilization, TCP states, forks, NTP,...
- Supported technologies: Zenoss, Docker, Python, Linux, bash, AWS, Puppet, Ansible, RabbitMQ, CDN, Jenkins, Jira,…

Digital applications support (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
- Supported 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 agreement 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/supported technologies: HP OpenView Performance Agent (OVPA), HP OpenView Operations (OVO monitoring), Oracle, DB2, Ingress, Zabbix, EMC, NetApp

⊕ Independent guide/representative in Bulgaria, season contract *June 2012 – September 2012*

🖥 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/supported 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/supported technologies: Linux, CentOS, Solaris, FreeBSD, Windows, MySQL (with replications), Apache, Nginx, IIS, HTML, JavaScript, CSS, load balancer NetScaler/HAProxy, memcached/Varnish

Related project: PHP Zcheck:
Error/IDS handler for PHP applications with automatic email reporting to DevOps manager/Product Manager/Developer, direct reporting to browser (per IP configuration) – devel snapshot is available on http://zcheck.jangaraj.com/
Used technologies: PHP framework Nette, PHP IDS, JS, CSS

🖥 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)
- Virtualization project (from scratch) based on Citrix XenServer – deployment and administration of hypervisor and virtual servers based on Debian, CentOS, FreeBSD, iSCSI storage QNAP
- Administration of Linux/Windows servers, optimization of DB performance, monitoring tasks
- Monitoring of servers with Zabbix – developing Zabbix custom scripts

Related project: Virtualization/monitoring project – XenServer/Zabbix
Virtualization of existing HW servers (private cloud). Evaluation of hypervisors (VMware/Citrix XenServer).
Final setup: 3x XenServer (free edition), 20+ migrated guest OS (mostly Linux, Debian, FreeBSD, Windows), iSCSI shared storage. Monitoring solution: Zabbix (Nagios) with custom Zabbix scripts

🎓 Faculty of Informatics and Information Technologies, *September 2007 – June 2009*
Slovak university of technology in Bratislava, Slovakia, www.fiit.stuba.sk
University education, master level (MEng): Software engineering
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

🎓 Faculty of Informatics and Information Technologies, *September 2004 – September 2007*
Slovak university of technology in Bratislava, Slovakia, www.fiit.stuba.sk
University education, bachelor level (BEng): Information technology
Bachelor thesis: Optimization of usage of computer system in e-mail (implementation in Postfix)

Languages

English: reading – good, writing – good, verbal – good	**Czech:** reading – very good, writing – very good, verbal – very good	**Slovak:** native	
German: reading – basic, writing – basic, verbal – basic	**Bulgarian:** reading – good, writing – good, verbal – very good		

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