

Tomasz Klosinski

DevOps / Site Reliability Engineer

Personal information

Citizenship: Polish

Swiss Permit: B

Contact

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COMPETENCIES

- # Linux
- # Bash and Python scripting
- # Ansible and Docker (Compose & Swarm)
- # Elasticsearch, Logstash/Fluentd, Kibana
- # Prometheus, Grafana
- # Cassandra, Couchbase, Redis
- # CircleCI, Jenkins

AREAS OF INTEREST

- # Open Source
- # Automation & Configuration Management
- # Scalable Systems Design
- # Monitoring, Time-Series Metrics
- # Continuous Delivery
- # Cloud Computing, IT Infrastructure
- # Agile Methodologies

Education

2010–2012

Polish-Japanese Academy of Information Technology

Databases, M.A.

2008–2011

University of Lodz

Business Management, B.A.

2007–2010

University of Lodz

Computer Science, B.A.

Certification

- [Red Hat Certified Engineer](#)
- [Red Hat Certified System Administrator](#)

Languages

- *Polish* (Native)
- *English* (C1)
- *German* (B1)

Experience

NECTAR FINANCIAL AG

Senior DevOps Engineer

01/2018–Present

Technology: Ubuntu, Ansible, Docker, Node.js, Couchbase, Elasticsearch, Redis, ELK, Prometheus+Grafana

- Upgrading and refactoring docker-based CI workflow (CircleCi v2)
- Maintaining Docker images (Dockerfiles), Docker Compose files and Docker Swarm clusters
- Refactoring Docker Compose stack files to support multiple versions for multiple environments
- Automating deployments from Github via CircleCI building/testing via Docker Hub images repo to Docker Swarm dev/stage/prod clusters
- Building ELK logging stack with Kibana dashboards
- Building Prometheus-based monitoring and performance metrics collection and Grafana dashboards visualisations for Node apps, RabbitMQ, Elasticsearch, Redis
- Managing Exoscale VMs, AWS services and physical servers in a local datacenter with Ansible using Infrastructure as a Code paradigm
- Building monitoring based on Datadog for a Python-based application with frontend served on AWS S3
- Managing services: Github, Docker Hub, Exoscale, AWS, CircleCI, Slack (deployment and monitoring notifications), domain names, Let's encrypt certificates

Technology: CentOS 7, FreeBSD, Ansible, Cassandra, Elasticsearch, Fluentd, Kibana, KairosDB, Grafana

- Building a logging and tracing/metrics collection system based on Elasticsearch/Fluentd/Kibana and Cassandra/KairosDB/Fluentd/Grafana and auditing system based on auditd.
- Automation of VMs provisioning (VMware), bootstrapping CentOS 7 system configuration and deploying services and applications on top of them
- Developing 100 Ansible roles for Linux services like Cassandra, Elasticsearch, HAProxy and Nginx load balancers and our scala/akka-based banking/financial applications.
- Designing and implementing a package delivery workflow - from fetching jars from Nexus and Ansible code from GitLab to deploying a new version on multi-staged environments.
- Management of FreeBSD PF-based firewalls and routers.
- Interviewing new DevOps candidates.

Technology: Scientific Linux 6 (RHEL6), CentOS 7, Ansible, Bash, Python, auditd, rsyslog, nginx, Monit, Elasticsearch/Logalike/Kibana, git, PXE, kickstart

(1) *System Administration Modernisation Project*

- Development of automated configuration management with Ansible.
- Support and troubleshooting of over 2800 OpenStack VMs, desktops and servers critical to the operation of CERN accelerators.
- Transformation of an old Bash/AWK/Python script-based configuration management to a modern Ansible-based solution.
- Massive analysis, comparison, fixing errors and making more consistent of kickstart files for 2800+ machines (including changes in PXE servers and generating kickstart files based on Ansible inventory file and CERN's internal sources of data about hosts).
- Implementing a filesystem monitoring system based on auditd, rsyslog, Elasticsearch, Logstash/Logalike and Kibana (dashboards).
- Various improvements to process control and monitoring of services (Monit).

(2) *Accelerator Project Exploitation Tools - Tracing*

- System administration of Elasticsearch/Logalike/Kibana clusters:
- Development of Logalike extensions in Java.

Technology: RHEL 6, CentOS 7, Jenkins, Bash, Python, Vagrant, Packer, Fedora Koji, Red Hat Satellite Server, Red Hat Enterprise Virtualization, GlusterFS, GitLab, Zabbix

- *Open Source Day*: Organization of the biggest Open Source event in Poland.
- *EuroLinux Project*: Design and implementation of Automated Delivery Pipeline for building RPM packages (using bash scripts chained into Jenkins' jobs).

Technology: RHEL/CentOS 6, Ubuntu Server, Oracle Database, MySQL, GlusterFS, OpenStack (KVM), Cloudera Hadoop, Chef, HAProxy, nginx, Jenkins, Apache Cassandra, Zabbix, syslog-ng, Jira

- Support of RHEL/Oracle/Java telco applications for international cellular networks.
- Installation of a OpenStack cluster integrated with a GlusterFS cluster (automated with Chef).