

Tomasz Klosinski

DevOps / SRE / Platform Engineer

Citizenship: Polish

Swiss Permit: B

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[XYZ](#)

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Education

2010–2012

Polish-Japanese Academy of Information Technology
Information Technology (Databases), M.A.

2008–2011

University of Lodz
Business Management, B.A.

2007–2010

University of Lodz
Computer Science, B.A.

Certification

- [Kodilla Bootcamp Test automation in Python](#)
- [Kodilla Bootcamp Web applications with the Django framework in Python](#)
- [Kodilla Bootcamp Python Developer](#)
- [Red Hat Certified Engineer](#)
- [Red Hat Certified System Administrator](#)

Languages

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

Experience

Move Digital AG

Senior DevOps Engineer

11/2019–Present

Technologies: Kubernetes, Python, GitHub Actions, Prometheus+Grafana, Ansible, AWS, GCP, Azure

(1) *Cloud Engineering*

- Building Cloud-Native infrastructure stacks: on-prem and managed Kubernetes clusters integrated with Canal, Traefik (Ingress), Rook/Ceph, cert-manager, MetalLB, etc
- Developing Kubernetes Operators (Kopf) and Webhooks (Flask) in Python
- Modernising CI/CD pipelines: GitHub Actions autoscaled on-demand on EC2 using AWS Lambda
- Implementing Monitoring/Observability/Logging stack: Prometheus, Grafana and Loki
- Designing Secrets infrastructure: HashiCorp Vault with Kubernetes integration for secrets retrieval
- Working on Hybrid/Multi-Cloud setups across our Datacenters and GCP, AWS, and Azure (with configuration management based on Terraform)
- Migration of 100+ services to Kubernetes: Java, Python, React apps, Redis, RabbitMQ, Jupyter, Keycloak, MinIO, ArangoDB, Jenkins instances, etc
- Coaching our teams of 50+ developers in Cloud-Native technologies

(2) *DevOps Engineering*

- Working on *DevOps Cockpit*, our Python/Flask-based Portal for managing infrastructure resources: KVM VMs, Postfix mail servers, BIND servers, LDAP users/groups, etc
- Development of Ansible modules in Python
- Establishing DevOps code end-to-end automated testing (Molecule/TestInfra/Github Actions)
- Promoting modern Software Engineering principles (TDD, SOLID, Clean Code development)
- Making base infrastructure centralized, maintainable, reproducible across multiple platforms and environments with Ansible, and management of its core components: HAProxy, OpenVPN, Wireguard, IPsec tunnels, OpenLDAP, BIND, KVM, etc
- Support of our 2 interconnected datacenters, 40 physical servers, 200 VMs, 4 Kubernetes clusters with 1000 Kubernetes workloads and 2000 pods

Technologies: Ansible, Docker, Couchbase, Elasticsearch, Redis, Prometheus+Grafana

- Developing docker-based CI/CD workflows (CircleCi v2) to automate deployments to Docker Swarm dev/stage/prod clusters
- Building logging infrastructure based on ELK stack
- Developing Monitoring/Observability stacks for two teams: (1) Prometheus and Grafana for Node apps, RabbitMQ, Elasticsearch, Redis (2) Datadog for a Python applications and AWS resources
- Managing Cloud (Exoscale) VMs, AWS services, and physical servers in our local datacenter with Ansible
- Managing Infrastructure: Github repos, Docker Hub, Dockerfiles, Docker Compose files, Docker Swarm clusters, Exoscale & AWS resources, CircleCI, Slack notifications, domains and Let's encrypt certificates

Flynt Bank AG

Senior DevOps Engineer

05/2016–11/2017

Technologies: 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
- Automation with Ansible of VMs provisioning (VMware), bootstrapping CentOS system configuration, and deployment of services and applications
- 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

CERN

System Engineer (Project Associate)

04/2015–03/2016

Technologies: Ansible, Bash, Python, Java, auditd, Monit, ELK stack, PXE, kickstart

- Development of configuration management system with Ansible for almost 2800+ servers critical to the operation of CERN accelerators (including LHC)
- Migration of Bash/AWK/Python-scripts-based configuration to Ansible
- Managing kickstart files for 2800+ machines and managing PXE servers using them
- Implementing a security monitoring system based on auditd, rsyslog, and ELK stack
- Developing process control and monitoring using Monit
- Administration of ELK clusters
- Development of Logalike (Logstash clone) extensions in Java

Linux Polska

Solution Architect

02/2014–03/2015

Technologies: Jenkins, Bash, Python, Vagrant, Packer, 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 (based on Jenkins and shell scripts)

IMPAQ Group

Software / System Engineer

11/2011–01/2014

Technologies: MySQL, GlusterFS, OpenStack (KVM), Chef, Jenkins, Cassandra, Zabbix

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