

# Tomasz Klosinski

*DevOps / System Engineer*

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For detailed list of projects visit:  
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I am passionate Linux Engineer with 4 years experience in server automation and configuration management. My current position is System Engineer in DevOps and Infrastructure teams at CERN Control Center.

## COMPETENCIES

- # Linux, Bash
- # Ansible, Python,
- # Docker, Vagrant, Jenkins
- # Cloudera Hadoop
- # OpenStack, Amazon Web Services
- # Elasticsearch, Logstash, Kibana

## AREAS OF INTEREST

- # Continuous Integration/Delivery
- # Big Data, 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.

## Cerification

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

## Languages

- *Polish* (Native)
- *English* (C1)
- *French* (A2)

## Experience

04/2015–Present

**CERN (Geneva)**  
*System Engineer*

### (1) *System Administration Modernisation*

- Support and troubleshooting of over 2000 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.
- Replacement of inconsistent/non-existing version controlling of various parts of system configuration with a single git tree.
- Massive analysis, comparison, fixing errors and making more consistent of kickstart files for 2000+ machines (included also 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).
- Creating monit configuration for process management and monitoring.
- Developing dozens of Ansible playbooks for configuration of various aspects of OS and applications.

## (2) *Process Management and Deployment (PoC)*

- Design and implementation of the platform that could replace the former legacy service management solution, while keeping the interface and release-deploy-configure workflow for users backward compatible.
- Development of Python and Ansible-based tool for:
  - deployment of the accelerators controls applications;
  - adding/removing the services to/from an applications database (to make them persistent across OS reinstallations);
  - generating configuration for service monitoring and management (based on monit);
  - providing a consistent solution for supplying user specific (monit) checks for a service or group of services.

## (3) *Accelerator Project Exploitation Tools - Tracing*

- System administration of Elasticsearch/Logalike/Kibana clusters:
  - upgrade to ES 2.0 and Kibana 4;
  - creation of nginx reverse proxy configuration;
  - creation of monit configuration and checks for all ELK services;
  - writing a Logalike extension in Java 8.

02/2014–03/2015

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### **LINUX POLSKA (Warsaw)** *Solution Architect*

#### (1) [Open Source Day](#)

- Organization of the biggest Open Source event in Poland.

#### (2) EuroLinux

- Design and implementation of Automated Delivery Pipeline for building RPM packages (using bash scripts chained into Jenkins' jobs):
  - building RPM packages with open source tools (from Fedora Project): koji, mock, mash/createrepo, revisor/pungi, Sigul;
  - maintenance and configuration of Jenkins, GitLab, git repositories, etc;
  - development of bash and Python scripts;
  - configuration of testing environment based on Vagrant, Packer, RHEV's virtual machines;
  - set up of Zabbix monitoring.

11/2011–01/2014

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### **IMPAQ GROUP (Warsaw)** *Software / System Engineer*

- Support of RHEL/Oracle/Java telco applications for international cellular networks.
- Installation of a OpenStack cluster integrated with a GlusterFS cluster (automated with Chef).
- Development of Chef cookbooks for automatic orchestration of development and testing environments of Java web applications (+Apache Tomcat and Oracle XE 11g).
- Installation, configuration (using Chef) and maintenance of the Hadoop cluster and additional tools.
- Marketing and pre-sales activities for M2M, Cloud Computing and Big Data Business Practice.
- Design and implementation of the Linux services infrastructure in mVoip project:
  - load balancing and HA mode: HAProxy and nginx;
  - MySQL Master-Master Semisynchronous Replication cluster and Apache Cassandra cluster.
  - Zabbix monitoring and syslog-ng centralized logging;
  - Jira OnDemand administration