

# Tomasz Klosinski

*DevOps / System Engineer*

*Personal information*

Date of Birth: 1987

Citizenship: Polish

## COMPETENCIES

- # Linux (Red Hat Enterprise Linux, CentOS, Ubuntu)
- # Bash, Python
- # Ansible, Chef
- # Docker, Vagrant, Jenkins
- # OpenStack, Amazon Web Services
- # Elasticsearch, Logstash, Kibana

## AREAS OF INTEREST

- # Automated Configuration Management
- # 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

**CERN (Geneva)**

*Linux System Engineer*

04/2015–03/2016

**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*

- 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.
- Replacement of inconsistent/non-existing version control of various parts of system configuration with a single git tree.
- 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 (Monit).
- Development of dozens of Ansible playbooks for configuration of various aspects of OS and applications.

(2) *Process Management and Deployment Project (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.

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**LINUX POLSKA (Warsaw)**

*Linux Solution Architect*

02/2014–03/2015

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

(1) *Open Source Day*

- Organization of the biggest Open Source event in Poland.

(2) *EuroLinux Project*

- 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.

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**IMPAQ GROUP (Warsaw)**

*Linux Software / System Engineer*

11/2011–01/2014

**Technology:** RHEL/CentOS 6, Ubuntu Server, Oracle Database, MySQL, GlusterFS, OpenStack (KVM), Cloud-era 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).
- 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