Tomasz Klosinski
DevOps / System Engineer

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For detailed list of projects visit:
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I am a 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

CERN (Geneva)	*System Engineer*	04/2015–03/2016

(1) *System Administration Modernisation Project*

- 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 (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 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.

Linux Polska (Warsaw)   *Solution Architect*   02/2014–03/2015

(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.

IMPAQ Group (Warsaw)   *Software / System Engineer*   11/2011–01/2014

- 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 centrallized logging;
  - Jira OnDemand administration