

Konrad J. D. Lothar

SYSTEM/OPERATIONS ENGINEER

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Summary

Specialized in infrastructure automation, monitoring and tool development. Creating small to large web clusters serving thousands of concurrent users. Building high available web, database and storage systems. Writing custom code to connect various systems such as monitoring, backup or orchestration infrastructure. Well self reflected and self educated. High dedication towards open source software and systems. Zero Windows knowledge.

Skills

Continuous Development/Integration	Gitlab CI, Jenkins
Monitoring	Nagios, Icinga, Logstash, CollectD
Orchestration	Ansible, Puppet, TheForeman
Programming	Bash, Ruby, Perl, C
Storage	CTLD, DRBD, HAST, NFS, ZFS
Virtualization & Containerization	Amazon AWS, Docker, Kubernetes, VMWare
Web	Apache, Nginx, Varnish, HAProxy
Languages	German, English

Work Experience

CORPEX Internet GmbH

Hamburg, Germany

LINUX SYSTEM ADMINISTRATOR

Feb 2012 - Dec 2016, Jun 2017 - May 2018

- Created processes to automate and standardize the installation process, reducing installation time and post-installation errors by 95%.
- Provisioned virtualization infrastructure (Amazon AWS, VMWare) utilizing IaC (Infrastructure as Code) tools like Ansible and Puppet.
- Responsible for 1000 unix (FreeBSD, OpenBSD) and linux (CentOS, CoreOS, Debian) servers.
- Researched, evaluated and implemented new technology solutions.
- Built a (mostly) fully automated *system and package update tool* (Ruby) for Debian (apt) based systems.
- Built several scripts (Bash, Perl, Ruby) and programs (C) for services (Backup, Monitoring, Orchestration) and APIs (Amazon AWS, TheForeman, VMWare).
- Built a plugin for logstash which gathers network data via the SNMP protocol.
- Deployed high available (CARP, HAProxy, Heartbeat) clusters (FreeBSD, Linux) for web (Apache, Nginx), database (MySQL, MongoDB) and storage (CTLD, DRBD, HAST, ISCSI, NFS, ZFS) servers.
- Deployed a centralized logging environment (CollectD, Elastic Search, Logstash) which gather log data from servers and applications.
- Deployed a centralized monitoring environment (CollectD, Nagios) which gather system metrics.
- Built dashboards for network and system analytics with Grafana which were displayed across the office.
- Gained experience in sales and customer consulting.
- First Level Support on telephone and email, solving all kind of problems related to B2B Hosting.

B+W IT GmbH

Hamburg, Germany

INHOUSE CONSULTING & SYSTEM ENGINEER

Jan 2017 - May 2017

- Provisioned virtualization infrastructure (TheForeman, VMWare) utilizing IaC (Infrastructure as Code) tools like Puppet.
- Migrated CISCO Router and Firewalls to pfSense, reducing cost and administration effort.
- Implemented monitoring services with Nagios and CollectD.

Magicline GmbH

Hamburg, Germany

SYSTEM ENGINEER

May 2015 - Feb 2016

- Created DevOps processes to automate frontend, backend and fullstack development.
- Provisioned containerization infrastructure (Docker, Kubernetes, Vagrant) utilizing IaC (Puppet) and CI/CD (Gitlab CI, Jenkins).
- Deployed a centralized logging environment (CollectD, Elastic Search, Logstash) which gather log data from servers and applications.
- Built and maintained dashboards with Grafana for sales-team to analyze and optimize work processes.

Technical Experience

Industrial

PROFESSIONAL EXPERIENCE

- Backup: Bacula
- Databases: Graphite, MongoDB, MySQL, PostgreSQL
- DNS: Bind9, Dnsmasq, Unbound
- High Availability: CARP, HAProxy, Keepalived
- Monitoring: ELK, Grafana, Nagios
- Operating Systems: FreeBSD, Linux, OpenBSD
- Orchestration: Ansible, Puppet, TheForeman
- Programming Languages: Bash, Ruby, Perl
- Storage Systems: NFS, DRBD, HAST, iSCSI, NFS, ZFS
- Virtualization & Containerization: Amazon AWS, Docker, Proxmox/KVM, VMWare, Xen
- Webserver: Apache, Nginx, PHP, Passenger, Varnish
- Other Tools: Git, SVN, Vim

Educational

SELF-TAUGHT EXPERIENCE AS ENTHUSIAST

- Mailserver: Dovecot, OpenSMTPD
- Microcontroller programming: Arduino, ESP8266
- Operating Systems: NetBSD, SGI IRIX, Solaris
- Programming Languages: C
- Virtualization & Containerization: Kubernetes (kubespray), OpenBSD VMM

Own Network

SELFHOSTING EVERYTHING

- Backup: duplicity, rclone
- DNS: Bind9 on OpenBSD (ns01, ns02) and FreeBSD (ns03)
- Mail: OpenSMTPD with Spamd, Spampd, BGP, Greylisting on OpenBSD (mx01, mx02) and FreeBSD (mx03)
- Web: Static page generation with jekyll, served by nginx, proxied by haproxy
- Communication: FreeBSD jails with prosody for XMPP and znc/bitlbee for IRC and Messenger communication
- Encryption: GnuPG, OpenSSL with letsencrypt via acme-client.

Education

Hochschule Fulda University of Applied Sciences

APPLIED COMPUTER SCIENCE

Fulda, Germany

Oct 2008 - Apr 2011

Handelsschule Herrmann

TECHNICAL SECONDARY SCHOOL: BUSINESS INFORMATICS

Fulda, Germany

Aug 2006 - Jul 2008

Handelsschule Herrman

TECHNICAL SCHOOL: ECONOMICS AND ADMINISTRATION

Fulda, Germany

Aug 2004 - Jul 2006

Extracurricular Activity

VOTIZ

MEMBER CO-FOUNDER

- Developed a survey management system in PHP which was then sold to the Handelsschule Herrman.

Fulda, Germany

Jun 2008 - Aug 2009

Certificate of employment

Mr. Konrad Lothar, born July 20, 1985, was employed at our company as a Linux system administrator from February 13, 2012 until December 31, 2016 and from June 1, 2017 until May 31, 2018.

The CORPEX Internet GmbH is a technical internet service provider in the product sector of managed hosting and has been working with large and small companies from all parts of Europe.

In his position Mr. Lothar was specifically responsible for the following tasks:

- Setting up and constant maintenance of new Linux servers
- 1st / 2nd level support via e-mail and telephone
- Supervision and maintenance of our data center's infrastructure
- Maintenance of a data backup system
- Maintenance of a network monitoring system
- Maintenance of a domain management system
- Documentation for the operating systems
- On-call duty and emergency service
- Administration and operation of data base systems (PostgreSQL, MySQL, MongoDB)
- Administration and operation of web and applications servers (Apache, nginx, Tomcat)

Moreover, Mr. Lothar introduced the automatization of the server configuration with Puppet. He autonomously acquired the necessary knowledge and fully supervised all components during installation, configuration, updating and further maintenance. In addition to his internal responsibilities, he also took care of the sometimes extremely specific requirements of our customers and their implementation. Furthermore, he introduced the tool Foreman for the lifecycle management of virtual and dedicated servers. These two components enabled Corpex to provide their services with increased speed and flexibility, an enormous additional advantage from which the company still benefits.

Mr Lothar's professional activities were always characterized by commitment and initiative and he pursued the interests of our company with high motivation. He is a resilient employee who also managed to complete his tasks confidently and result-oriented when the requirements altered. Due to his quick comprehension, Mr. Lothar was always able to assess new situations and analytically evaluate interruptions and disturbances.

Mr. Lothar possesses comprehensive and detailed expert knowledge. Upon the occurrence of new questions or problems, he always autonomously enhanced and updated his expertise and confidently put it into practice.

His work was at all times characterized by determination, diligence and the ability to work independently. Due to his sedulous and efficient work method, he always achieved good results. He performed all of his duties to our complete satisfaction.

CORPEX Internet GmbH

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Concerning Mr. Lother's personal nature, we know him to be a cooperative employee and a team player. His behavior towards his superiors, colleagues and business partners was impeccable. Moreover, Mr. Lother was also rated highly by our customers and business partners due to his professional competence.

Mr. Lother left our company on May 31, 2018 at his own request. We regret his decision and want to thank Mr. Lother for the always productive collaboration. For his professional and personal future we would like to wish him all the best and ongoing success.

Hamburg, May 31, 2018



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