

Jens Dieskau

DevOps Architect

📍 Magdeburg, Germany
👤 September 15, 1988
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ABOUT ME

I'm Jens Dieskau, a software developer, infrastructure operator, tinkerer, and wannabe designer from Germany. Before I do a handshake three times, no matter how easy and fast it is, I prefer to automate it right away. I am not afraid of new technologies and challenges. My home is the shell. My tools are ssh, vim, tmux & co. Code that is not in a git repository does not exist for me. I love and live open source software and there is hardly any technology I have not looked at already at least once. Besides programming, I have in-depth knowledge in areas like virtualization, networking (LAN & SAN) and in operating server applications of all kinds.

Languages

🇩🇪 German ● ● ● ● ● ●
🇬🇧 English ● ● ● ● ● ●

Programming

🐍 Python ● ● ● ● ● ●
📄 Bash ● ● ● ● ● ●
☕ Java ● ● ● ● ● ●
JS JavaScript ● ● ● ● ● ●
</> C++ ● ● ● ● ● ●

Skills

Tools

Git Docker SaltStack
VMware KVM LaTeX Jupyter

Operation

Linux Container Virtualization
IT-Security CI/CD
Configuration Management
Heterogeneous system landscapes

Development

Android UI5 Qt5 Node.js
Vue.js Bootstrap

Core Services

Nginx Bind9 (Open)LDAP
FreeIPA VPN DHCP
SAProuter Kerberos KVM
VMware vCenter Postfix

Architecture

Private/Public Cloud Microservice
SOAP REST SAN V(x)LAN

WORK EXPERIENCE

- 2017 – Today **DevOps Architect** SAP UCC Magdeburg
- Data center transformation from VMware towards libvirt/KVM (Infrastructure as code)
 - Development and maintenance of a reverse proxy server for access to SAP systems (CPI-C, RFC w/ Saprouter), database and application sever (HTTPS w/ NGINX)
 - Building a backup solution based on SEP Sesam and HPE Storeonce
 - Automatic certificate management for SAP systems
 - Best practice development and training of staff in using of Git, Python and JavaScript
- 2014 – 2017 **DevOps Engineer** SAP UCC Magdeburg
- Data center transformation from HP-UX cluster with ≈400 SAP Netweaver and HANA instances towards VMware with Linux VMs
 - Responsive mobile app development (native Android + SAP UI5)
- 2010 – 2014 **Scientific Assistant** SAP UCC Magdeburg
- Migration of Perl scripts from HP-UX to Linux
 - Data center monitoring
 - Administrative tasks in end user office environment
- 2012 – 2013 **Scientific Assistant** Technische Hochschule Brandenburg
- Development and evaluation of pattern recognition techniques for identification and classification of fingerprint images
 - Evaluation and implementation of machine learning algorithms
 - Porting Python and Java projects to C#
- Freelance*
- 2019 **In4MD Service GmbH**
- Consulting and development of a crypto concept for an ISO/IEC 27001 certification
- 2018 – 2019 **Westfälische Wilhelms-Universität Münster**
- Front-end testing of several SAP UI5 applications based on Selenium (Grid)
 - Focus on parallelized testing to simulate the use of hundreds of students
 - Development of a framework for easy handling of new test cases
 - Employee training

- 2017 – 2018 **Berufsakademie Sachsen / Dr. Pape & Co. Consulting GmbH**
- SAP UI5 mobile app development („Direktoren-App“)
 - End users are the directors of the „Berufsakademie Sachsen“
 - The application displays clearly information of faculty, students, curricula, room bookings, and enrollment and disenrollment data
 - Creation of necessary OData services

EDUCATION

- 2014 – 2016 **Master of Science** Otto-von-Guericke-Universität Magdeburg
- Study type: Computer science
 - Thesis: „Multi-objective Procedural Level Generation for General Video Game Playing“
- 2009 – 2014 **Bachelor of Science** Otto-von-Guericke-Universität Magdeburg
- Study type: Computer science
 - Thesis: „Untersuchungszielspezifische Merkmalsselektion für die textile Faserspurenforensik“
- 2005 – 2008 **Abitur** BBS „Otto-von-Guericke“

SELECTED PROJECTS

- 2018 – 2020 **Migration of a VMware environment to libvirt**
3 person team, 2 years, >400 customers, ≈600 VMs, 8 hosts

The goal of the project was to migrate a VMware landscape to libvirt (KVM). Features such as VM (live) migration, snapshots, hotplug memory, CPU and hard disk extensions must still be possible in the new landscape. Additionally, the focus lied on a complete automated deployment process: From VM provisioning to automatic application installation.

After evaluating a wide variety of complete systems from different companies and open source solutions, it was decided that an in-house development based on the automation software emphSalt should be carried out.

Tags: SaltStack, libvirt, Multipath SAN, VxLAN

- 2014 – 2015 **Project „AccessCluster“**
One-Man-Show, 1 year

Development of a central access point for different application servers from different customers. Before the changeover, each system had its own public IPv4 address. This was costly and difficult to secure in the long run.

The challenge here was to find a suitable reverse proxy solution for the different protocols and to configure it fully automatically.

Tags: SAProuter, NGINX, Firewall, NAT

- 2014 – 2015 **HPUX/Itanium superseded**
4 person team, 1 year

Replacement of a legacy HP-UX environment with a fully virtualized VMware landscape.

Tags: HP-UX, VMware, NSX

>_ {ssh, telnet}://jens-dieskau.de

🌐 {http[s], dat}://jens-dieskau.de

📄 {http[s], ftp, smb, sftp}://
jens-dieskau.de[:]/cv.pdf

@ {imap, pop3}://jens-dieskau.de

🏠 dns @ cv.jens-dieskau.de

Source Code @ <https://git.jdsoft.de/cv/cv-latex>