





# Jens Dieskau

IT Architect

 Braunschweig, Germany  
 September 15, 1988  
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## ABOUT ME

I'm Jens Dieskau, an IT architect, seasoned software developer, infrastructure operator, tinkerer, and wannabe designer from Germany. Rather than repeating a simple task by hand even a few times, I'd prefer to automate it right away. I am not afraid of new technologies and challenges.

I'm passionate about open-source software, valuing the control it grants over the entire hardware and software stack — though I'm pragmatic enough to select the best tool for each task. I have in-depth knowledge in areas like virtualization, networking (LAN & SAN) and in operating server applications of all kinds. I also enthusiastically lead a DevOps team, where I serve as Product Owner responsible for the continuous development of our infrastructure and processes.










## WORK EXPERIENCE

- 2021 – Today** **IT Architect** Volkswagen AG
- Product Owner of the corporate development platform with over 100,000 users
  - Subject matter expert responsible for the ongoing development of the infrastructure
  - Planning and implementation of a migration of an existing on-premise IT landscape to AWS
  - End to end deployment automation built with Terraform and Ansible
  - Design and implementation of a backup and disaster recovery solution based on AWS Backup API and boto3 (Python)
- 2017 – 2021** **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 Store-once
  - 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  $\approx 400$  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#

## Languages

 German   
 English 

## Programming

 Python   
 Bash   
 Java   
**JS** JavaScript   
 C++ 

## Skills

### Tools

Git Docker VMware KVM  
LaTeX Jupyter

### Automation

Terraform Ansible SaltStack  
CloudFormation

### 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

## 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

2021 – 2022

### Migration to AWS

4 person team, 1 year, 90000 user,

The main task was to migrate an existing IT landscape from an on-premise solution to AWS. Neither functionality nor performance had to be affected in the process. The roughly 90000 users of the hosted systems should not notice any platform change. The focus was the end-to-end automation of the entire landscape, from infrastructure components up to the application level. A new backup concept and a disaster recovery plan also had to be completely redesigned.

**Tags:** AWS, Terraform, Ansible

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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 *Salt* 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>