Jens Dieskau

IT Architect

Languages





Programming











Skills

Tools



Automation

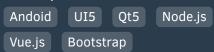
Terraform Ansible SaltStack
CloudFormation

Operation

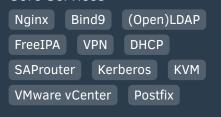


Heterogeneous system landscapes

Development



Core Services



Architecture

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

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 onpremise 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 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 \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#

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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 Faserspurforensik"

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 inhouse 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

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