

Thorsten Habich

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Short Overview of Technologies

Cloud & Infrastructure:

Microsoft Azure, Oracle Database, AWS, Terraform, OpenTofu, Red Hat Enterprise Linux (RHEL), Rocky Linux, Ubuntu, Debian, Windows Server, Hyper-V

Containerization & Orchestration:

Docker, Kubernetes (AKS), Helm, ArgoCD, Istio

Configuration & Deployment Tools:

Ansible, Puppet, Bitbucket Cloud, GitLab, Atlassian Bamboo, TeamCity, Maven, Gradle

Version Control & Collaboration:

Git, Bitbucket, GitLab, JIRA, Confluence, Crowd

Programming & Scripting Languages:

Python, Bash, Perl

Networking & Security:

VPN, IPtables, Squid, Keycloak, Nginx, Active Directory, TLS Certificate Management, Site-to-Site PGP, LDAP, F5 Loadbalancer

Monitoring & Reporting:

Datadog, PagerDuty, Trivy, Nagios, Munin, OTRS, Prometheus

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Current Certifications

AZ-104	Microsoft Azure Administrator
AZ-305	Microsoft Azure Solutions Architect Expert
AZ-500	Microsoft Azure Security Engineer Associate
CAPA	Certified Argo Project Associate
CBA	Certified Backstage Associate
CCA	Cilium Certified Associate
CKA	Certified Kubernetes Administrator
CKAD	Certified Kubernetes Application Developer
CKS	Certified Kubernetes Security Specialist
CGOA	Certified GitOps Associate
CNPA	Certified Cloud Native Platform Engineering Associate
ICA	Istio Certified Associate
KCA	Kyverno Certified Associate
KCNA	Kubernetes and Cloud Native Associate
KCSA	Kubernetes and Cloud Security Associate
LFCS	Linux Foundation Certified System Administrator
OTCA	OpenTelemetry Certified Associate
PCA	Prometheus Certified Associate

Expired Certifications

MCP	Microsoft Certified Professional (Windows XP, Server 2003, Network Infrastructure, Security, ISA Server 2004)
CCNA	Cisco Certified Network Associate (Networking Basics, Routing, Switching, WAN)
ITIL Foundation	ITIL Foundation Certificate in IT Service Management
LPIC-1	Linux Professional Institute Certification Level 1
SAFe DevOps	SAFe DevOps Practitioner Certification

Professional Experience

DEVOPS ENGINEER | SELF-EMPLOYED (MAR 2023 – APR 2025) | REMOTE

Cloud Management & Automation:

- Architecture and provisioning of Azure resources—including Datadog and PagerDuty—using Terraform/OpenTofu
- Standardization and administration of Oracle databases on Azure VMs

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- Creation and optimization of Ansible playbooks for automated deployments

Services & Infrastructure:

- Migration to a self-hosted CENM solution
- Provisioning of internal applications and Corda nodes
- Setup and management of Kafka clusters
- Implementation of Squid, Keycloak, and Nginx for enhanced network security

Advanced Infrastructure & Test Environments:

- Aligning test and development environments on Azure with the production environment in the data center
- Migrating test environments from Ubuntu to Rocky Linux to replicate the production environment with RHEL
- Setting up an HTTP proxy with user management and automated updates
- Implementing a reporting system to monitor regular virus scans and the installation of security updates

CI/CD & Security Automation:

- Creation and rollout of Bitbucket Cloud pipelines for reliable deployments
- Development of container build pipelines that deliver fresh containers on a daily basis
- Integration of Trivy security scans to ensure container security

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Technologies & Tools:

Microsoft Azure, Oracle Database, Terraform, OpenTofu, Ansible, Datadog, PagerDuty, Kubernetes (AKS), Helm, Bitbucket Cloud, Red Hat Enterprise Linux (RHEL), Rocky Linux, Ubuntu, Squid, Apache Kafka, Keycloak, Nginx, Trivy, Corda, Python, Bash, Git, Docker, Gradle

RELOCATION (MAR 2022 – FEB 2023) | MOVE

- War-related relocation from Kyiv to Germany – a transition period without employment.

DEVOPS ENGINEER | SELF-EMPLOYED (APR 2016 – MAR 2022) | REMOTE

CI/CD & Toolchain Optimization:

- Migration from Bitbucket/Bamboo to GitLab PaaS
- Support in debugging build errors (Maven, Gradle, NPM, Python, C, etc.)
- Administration of the Atlassian toolchain (JIRA, Confluence, Crowd, Bamboo, Bitbucket)

Infrastructure & Automation:

- Creation and flexibility of Ansible playbooks
- RPM packaging of all applications in GitLab pipelines
- Setup of test environments in AWS

Security & Monitoring:

- Development of new security concepts
- Optimization of workflows through automation

Technologies & Tools:

Ansible, Puppet, JIRA, Confluence, Atlassian Bamboo, Bitbucket, GitLab, Git, Bash, Maven, Gradle, Docker

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DNS MANAGEMENT (DEC 2016 – MAY 2021) | REMOTE

System Administration & Automation:

- Administration of Unbound and Bind DNS systems
- Review and implementation of customer requests in accordance with company policies
- Consultation with customers and internal teams on DNS strategies and best practices
- Zone management and DNS resolver configuration
- Development and maintenance of Ansible playbooks to automate DNS processes
- Packaging and maintenance of RPM packages for software deployment

Technologies & Tools:

Bind, Unbound, Ansible, RPM packaging tools, company policies for DNS security

SMTP AND EMAIL INFRASTRUCTURE (DEC 2016 – MAY 2021) | REMOTE

Email System Administration & Security Management:

- Administration of the SMTP chain, including communication between applications, the internet, and backend systems
- Advising internal teams and customers on meeting requirements per company policies
- Management and optimization of Postfix, Postfwd, Zertificon Z1 (SecureMail Gateway), and Expurgate for anti-spam
- Review and implementation of customer requirements for secure mail delivery (including TLS certificates and site-to-site PGP)
- Analysis and troubleshooting of false positives in anti-spam detection
- Migration of the entire email infrastructure to new systems in accordance with new Linux policies
- Creation of RPM packages for all applications in GitLab pipelines for standardized deployment
- Revision and optimization of Ansible playbooks to enhance automation and workflows

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- Creation and optimization of Python scripts for automated reporting

Technologies & Tools:

Postfix, Postgrey, Postfwd, Zertificon Z1 (SecureMail Gateway), Expurgate, Python, Ansible, Certificate Authority, RPM packaging, GitLab pipelines, OTRS, TLS certificate management, site-to-site PGP, company policies for email security

DEVOPS ENGINEER | SELF-EMPLOYED (MAR 2016 – JAN 2017)

Virtualization & CI/CD:

- Setup and management of Hyper-V VMs
- Optimization of VM performance
- Management of TeamCity build jobs
- Support for .NET builds

Network & Database Administration:

- Setup of VPN connections
- Administration of IIS and Apache web servers
- Management of PostgreSQL, MySQL, and MSSQL databases

Security & Migration:

- Configuration and management of IPtables
- Planning and implementation of the Gmail → Office365 migration

Technologies & Tools:

Hyper-V, TeamCity, GitLab, VPN, Debian, Puppet, MySQL, Apache, Windows Server, JIRA, Confluence, Active Directory, MSSQL, PostgreSQL, IPtables

SYSTEMS ENGINEER | NET MOBILE AG (2015 – 2016)

Scripting & IT Management:

- Development of a Python module for managing Dell iDracs

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Technologies & Tools:

Python, Dell iDrac API

Sabbatical / Travel (2013 – 2015)

Extensive international sabbatical trips, for example:

- 3-month road trip in the USA
- 10-month stay in Lima
- 7 months in Melbourne

Systems Engineer | Phoenix Contact GmbH & Co KG (2011 – 2013)

Software Management & Application Deployment:

- Administration of various types of software via web interfaces
- Deployment and provisioning of TomCats
- Using Apache as a reverse proxy for various applications

Proxy Systems & Security Management:

- Operation of the company's proxy infrastructure with Webwasher (McAfee)
- Analysis and management of internet traffic and risk management for blocked websites

Project Management & Technical Support:

- Technical support for projects with budgets up to 10 million euros
- Process automation using Puppet
- Development of a monitoring solution using Nagios and Munin

Technologies & Tools:

TomCat, Apache, Webwasher (McAfee), Puppet, Nagios, Munin, Archiva, Subversion, Confluence

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Systems Engineer | Telefónica Deutschland GmbH (2008 – 2011)

Server Management & IT Infrastructure:

- Administration of Debian and Red Hat servers
- Redesign of an XMPP-based messaging platform (eJabberd)

Email & Security:

- Administration of internal and customer-related LDAP, Samba, and email systems
- Support in implementing IDM systems
- Setup and operation of mail solutions for up to 2,000,000 mailboxes
- Firewall management and configuration of F5 Loadbalancers

Technologies & Tools:

Debian, Red Hat, eJabberd, LDAP, Samba, Mailserver, F5 Loadbalancer

Education & Certifications

Fernuniversität Hagen (2010)

Studies (selected courses):

- Knowledge-Based Systems
- Internet Security
- Management of Software Projects

IKB Deutsche Industriebank AG (2005 – 2008) | Paderborn

Training: IT Specialist for System Integration

During the training, several additional courses were completed, conducted by Siemens Professional Education (Paderborn):

- Business Administration Basics Seminar
- Database Administration
- Internet Servers & Web Technologies

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- IT Management & IT Security
- Network Architecture & TCP/IP System Administration
- Project Management including MS-Project
- UNIX System Administration/SOLARIS
- Voice over IP & Wide Area Networks

Online Courses

- **Ultimate AWS Certified Cloud Practitioner – 2022**
 - Instructors: Stephane Maarek (AWS Certified Cloud Practitioner, Solutions Architect, Developer)
 - Date: Feb. 2, 2023, Total 14.5 hours
- **Ultimate AWS Certified Solutions Architect – 2025**
 - Instructors: Stephane Maarek (AWS Certified Cloud Practitioner, Solutions Architect, Developer)
 - Date: May 7, 2025, Total 27.5 hours
- **Certified Kubernetes Administrator (CKA) with Practice Tests**
 - Instructors: Mumshad Mannambeth, KodeKloud Training
 - Date: May 14, 2025, Total 27 hours
- **Apache Kafka Series – Learn Apache Kafka for Beginners v3**
 - Instructors: Stephane Maarek (AWS Certified Cloud Practitioner, Solutions Architect, Developer, Conduktor Kafkademy)
 - Date: April 14, 2024, Total: 8.5 hours
- **Argo CD Master Course: Expert Techniques in GitOps and DevOps**
 - Instructors: Muthukumar Subramanian
 - Date: May 8, 2025, Total: 7.5 hours