

Matthias Wunsch

CLOUD ARCHITECT · SECURITY EXPERT

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Skills

Cloud	Azure, GCP, AWS, Hetzner Cloud
Back-end	Python 2.1+ (Matplotlib, NumPy, PyTorch, scikit, Pandas, Flask, TensorFlow, Keras), Go, JavaScript(ES6-ES2021/TypeScript/NodeJS), Haskell, C++, C#, Zig :, Bluetooth Stack
Front-end	JavaScript(React, Vue), Hugo
DevOps	Ansible, Docker, Kubernetes, Terraform, Azure DevOps, GitHub Actions, GitLab CI/CD, Jenkins, Puppet, Podman
Data	BTRFS, MariaDB, MongoDB, Redis, MySQL, SQLite, ZFS
Security	Firewall (iptables, ufw, cross-server firewalls), network segmentation, encryption (LUKS, VeraCrypt, Full-Disk-Encryption, SSL, SSH, RSA, AES, ED25519), antivirus (ClamAV), VM hardening, SELinux
Monitoring	Grafana, Prometheus, CheckMK

Experience

Public Sector

Berlin, Germany

CLOUD ARCHITECT

May. 2024 - ongoing

- Design of an Azure Networking Architecture using **Azure Cloud Adoption Framework best practices** in compliance with **BSI Grundschutz**
- **Reproducible Infrastructure** Deployments and **IaC** with **Terraform**
- Secret management using **Open Source Solutions**
- Design of a Production Ready Environment including distribution of know-how to the team and planning of project roadmaps together with the customer

Energy Sector

Berlin, Germany

CLOUD SECURITY CONSULTANT

Aug. 2023 - Mar. 2024

- Design of a **cloud security strategy** in compliance with **BSI Grundschutz**, **Azure Security Recommendations**, **ISO 27001** and **CIS Benchmarks**, and **Critis**
- Kubernetes Hardening using **Azure Kubernetes Service (AKS)** and **Azure Policy**
- **Reproducible Infrastructure** Deployments and **IaC** with **Terraform**
- Secret management using **Hashicorp Vault**
- Provision of Docker Images using **Azure Container Registry** and operation in **Azure Kubernetes Service (AKS)** for optimal resiliency and scalability

ITZBund via Pexon Consulting GmbH

Bonn, Germany

PYTHON SOFTWARE DEVELOPER AND SECURITY AUDITING

Nov. 2022 - Jun. 2023

- Requirements Design in a **ISO 27001** certified environment in accordance with international and German security guidelines (**BSI Grundschutz**)
- **Git version control** using **GitFlow** and **GitLab**
- Automated and reproducible **Configuration Management** for faster Deployments using **Puppet**
- **Containerization** for higher flexibility using **Docker** and **Podman**
- **CI/CD** and DevOps using proprietary customer solutions and **GitLab CI**
- Agile work using **Scrum**, stories using **Jira** and documentation using **Confluence**

Pexon Consulting GmbH

Berlin, Germany

CLOUD AND SOFTWARE DEVELOPER | AZURE

Sep. 2022 - Jan. 2023

- Development of a REST-API for secure authentication against internal backends using **Express** and **TypeScript**
- Accessing of identities using **Google API** and later **public/private key signing** via **JWT**
- **Modul- and Unit testing** for better code quality using **jest**
- Design of a Microservice architecture using **Docker** and **Kubernetes**
- Separation of DEV and PROD environments for lower down times using **Azure Resource Groups**
- **Reproducible Infrastructure** Deployments and **IaC** with **Terraform**
- Secret management using **Azure Secret Manager**
- Scalable code execution using **Azure Cloud Functions**
- Agile work using **Scrum** and **GitFlow** practices for asynchronous cooperation
- DevSecOps practices, like automated deployments and regular testing with **GitLab CI**

Education Sector via Pexon Consulting GmbH

Berlin, Germany

CLOUD UND SOFTWARE DEVELOPER | AZURE

Aug. 2022 - Nov. 2023

- Development of a scalable REST-API using **Python (Flask)** for accessing customer data on an onprem **MySQL Database** using **Point to site VPN**
- Reproducible provisioning of infrastructure using **Terraform**
- **Git version control** using **Azure DevOps Repositories**
- Secret Management using **Azure KeyVault**
- Testing of API endpoints using **pytest**
- Design of **CI/CD Pipelines** for regular, automated deployments using **Azure DevOps**
- Provisioning of Docker Images using **Azure Container Registry** and operation in **Azure Kubernetes Service (AKS)** for optimal resiliency and scalability
- **Kubernetes Deployments** with **Helm**
- Monitoring of the applications using **Prometheus** and **Grafana**

Hartnackschule GmbH

Berlin, Germany

FULL STACK DEVELOPER

Mar. 2021 - Dec. 2021

- Design and Development of a digital education and exam platform utilizing **PHP** and **JavaScript**
- Persistence of customer Data using **MariaDB**
- Configuration Management for reproducible environments using **Ansible**
- Development of micro services in accordance by customer request using **PHP**
- Automation of customer registration using **Node.js** and an **MySQL** customer database
- Provisioning of the infrastructure with **Terraform**
- **CI/CD Pipeline** and Git version control via **GitHub** and **GitHub Actions**
- Site to Site VPN using **WireGuard VPN**

Law Firm

Berlin, Germany

IT SPECIALIST

Mar. 2020 - June. 2020

- Digitization and optimization of internal law firm processes
- Provisioning of onprem infrastructure using **Ansible**
- Design of a digital security strategy in compliance with **DSGVO, GoBD** and data protection requirements of the law firm
- Design and setup of a local bare metal server with **Debian Linux**
- **Full disk encryption** of IT hardware to achieve internally set compliance goals using **GNU/Linux tools, such as LUKS and GRUB2**, among others
- Implementation of regular snapshots for fast **site recovery** using **restic** and **ZFS**
- Regular **Backups** to different sites using **restic** and **cron**
- Introduction of **Yubi Hardware Security Keys** for authentication

Certificates

WIP	Microsoft Certified: Azure Solutions Architect Expert,
2023	Microsoft Certified: Azure Security Technologies,
2023	Microsoft Certified: Azure Administrator Associate,
2022	Microsoft Certified: Azure DevOps Engineer Expert,
2022	Microsoft Certified: Azure Developer Associate,
2022	HashiCorp Certified: Terraform Associate (002),

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Education

IU Internationale Hochschule

Erfurt, Germany

B.S. IN CYBER SECURITY

2023 - ongoing

- Part-time distance learning with excellent grades so far. Tutoring other students in similar subject areas in the past time.