

Coding infrastructure engineer

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https://github.com/flohoff

Knowledge

- 30+ years as Developer
- C, C++, Perl
- 30+ years as Linux admin
- Debian
- Ansible
- Mail
- Routing, Switching, IP(46)
- Gitlab
- OpenStreetmap

OpenSource Projects

- Wireshark
- Linux Kernel
- Debian
- Openstreetmap

WHO I AM AND WHAT I DO

I would call myself an "Coding infrastructure engineer". My primary skill is deep understanding of complex software and network interdependencies, from a single bit on wire, via the Linux Kernel socket API, to the Monitoring Event for your application.

Software Development has never been my primary mission, but a tool to solve problems in other fields of my working scope. Thereby i adapt to languages and tools as the production setup requires.

As being responsible for building and operating production infrastructure is a mindset i think of myself also being infrastructure for a team, a reliable offering of experience, insight and best common practices.

I consider monitoring, automation and reproducibility a major topic as the introduction offers room for improvement and innovation for the team.

Professional experience

Freelancer (2017-)

- Introduction of Netbox CMDB into customer infrastructure
 - Design and implementation of automatic switch port configuration from Netbox
 - of automatic export of monitoring configuration from Netbox to Icinga2
 - of Automatic Virtual Machine deployment from Netbox to VMWare infrastructure with Debian Installer and Ansible for application deployment.
 - of DNS zone creation from Netbox
- Ransomware cleanup in customer infrastructure
 - Rapid prototyping tools extract informations from the old infrastructure for example parsing Active Directory LDIF dumps for DFS aliases, Mail quotas, Bitlocker Keys
 - Introduction of 802.1x in the wired infrastructure as a measure of access control
 - Creating a Linux based live system for running the IOC Scanning within the VMWare infrastructure
- Map rendering stack for vaccination portal
 - Using Openstreetmap data, mapnik, Postgresql/Postgis
 - Preparation of data with Postgresql
- Automatic deployment of Guest Infotainment infrastructure on cruise vessels
 - Implementation for a transportable rollout system for bare metal using Ansible
 - Automatic Deployment of VMWare/VSphere as the Hypervisor
 - Deploying VMs from scratch on the Hypervisor
 - Deploying customers applications across the VMs
- Mail transport for cruise vessels via satellite
 - Using postfix and uucp to store and forward mails to the ship side Exchange infrastructure with automatic recovery on lost satellite coverage.

Senior Systems Engineer at Filoo (2015-2017)

- 3rd Level System support.
- Design and implementation of a CMDB from scratch and migrate existing sparse data.
- Design and implementation of automation for bare metal provisioning, including physical network infrastructure.
- Javascript, CouchDB, Perl, Cisco IOS/IOS-XR, Juniper SRX, All flavours of Linux

Senior Internet Engineer at Vitroconnect (2011-2015)

- Employee No 1. in a team of 3 designing and developing a full ISP Stack from scratch
- Designing and implementation of a CMDB for all of the technical Data, from leased lines to subscriber phone numbers.
- Server Infrastructure, DNS, Access, FTTH, GPON, VDSL, TR069, Cisco ASR9k/IOS-XR, Alcatel-Lucent ISAM/SAS7210, Redback Smartedge, Routing, BGP, MPLS, ISIS

Senior Internet Engineer at Telefónica Deutschland/mediaWays (1997-2011)

- Design and implementation of first v6 BGP Announcements of Telefonica AS6805
- Introduction of IPv6 with 6PE in the Telefonica Core with first v6 subscriber services
- Designing and implementation of redundant RADIUS and DNS Infrastructure for 2 mln. DSL Subscriber using Anycast
- Design and implementation a system for fault detection in Dialup systems

Freelancer (1994-2004)

- Software development embedded systems, Board bringup, Bootloader, Firmware
- Network management solutions
- Operating an ISP with dialup