

# Tim Meusel

Senior IT Automation Consultant

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🚗 Driving License

★ 1993-04-15

*DevOps is all about empathy*

ROB NELSON

## Skills

### Expert Skills

Software Puppet<sup>\*†</sup>, installimage<sup>\*</sup>

Operations Archlinux<sup>†</sup>, Gentoo, QEMU/KVM

### Development

Languages C#, Python, Shell/Bash, Ruby

Frameworks RSpec, Beaker<sup>\*†</sup>, Sinatra, Rails

Databases MySQL, PostgreSQL, Vault/Consul

Methods Object Oriented Programming, MVC, Unit Tests, UML

Source Management Git, SVN

Tools GitHub, GitHub Actions, Travis CI, Jenkins

### Systems and Networks Administration

Web Apache, Nginx, Varnish, Squid, proftpd, HAProxy

Monitoring ELK-Stack, Zabbix, Munin, Prometheus, Graphite, Grafana, Graylog, Collectd

Mail Postfix, Dovecot, Amavis

Backup Duply, Borg

Installation / Deployment Bootstrapping, Kickstart, Puppet<sup>\*†</sup>, installimage<sup>\*</sup>

Infrastructure Software ISC-DHCPd, OpenVPN, hpa-tftpd, NFS, Marmoset, OpenLDAP

Operating Systems GNU/Linux (Debian, Ubuntu, RedHat, Archlinux<sup>†</sup>, Gentoo), FreeBSD, pfSense

Databases MySQL, PostgreSQL

Virtualization VMWare, Docker, QEMU/KVM, libvirt, Parallels Cloud Server

Security SSL, PGP/GnuPG, OpenSSH, SELinux, Threat Modeling, Server hardening

DNS Unbound, Bind, Dnsmasq, PowerDNS

Networking Cisco routing and switching, VLANs, Network design and security, IPv6, Layer 2 and 3 debugging, Bird

\*Maintainer

†Contributor

## Experience

2021

**Senior IT Automation Consultant**, *example42 GmbH/betadots GmbH*, Cologne.

- IT automation consulting for operating systems and applications;
- Develop custom Puppet modules to suit customers needs;
- Setup and review IT automation infrastructure;

2014

2021

**DevOps Engineer**, *Hosteurope GmbH (acquired by GoDaddy EMEA)*, Cologne.

DevOps Engineer, System Administrator

- Architected and deployed a scaleable ELK-Stack with Graylog;
- Planned and executed migrations from Puppet versions 3 to 4 to 5 to 6;
- Wrote and contributed to 180+ public Puppet modules;
- Designed and built a technical fabric to provision physical servers on premise and in the cloud for multiple brands;
- Planned a cloud platform with Qemu and Kubernetes, including a scaleable network;
- Provided self services for developers with Puppet (e.g. Consul, Vault, pgsql, Firewalling);
- Mentored students for their Bachelor and Master thesis;
- Product Owner for multiple infrastructure services.
- Operated multiple Puppet-managed Cloud platforms with more than 3300 nodes;
- Tested and evaluated new hardware to increase cloud instance density;
- Enhanced the hardware monitoring to predict disk failures;
- Automated and optimized the consolidation of legacy platforms.

2012

2014

**Systems Engineer**, *Hetzner Online AG*, Falkenstein.

Led a cloud platform, maintained datacenter infrastructure

- Rebuilt Puppet infrastructure for 1500+ servers;
- Migrated servers from Puppet 2 to 3;
- Implemented cgroups for resource management in a cloud environment;
- Operated the base infrastructure of a datacenter with 200,000+ servers, including authoritative and recursive nameservers, installation environment, package mirrors, DHCP and NFS clusters;
- Responsible for the cloud platform. Maintained, developed and improved the current platform with 22,000+ virtual instances, including capacity management;
- Planned and evaluated a new cloud platform with distributed and local storage;
- Provided third level support for the cloud- and datacenter infrastructure systems;
- Monitored of a fleet of servers with zabbix;
- Wrote technical documentation;
- Developed a scaleable monitoring solution with autodiscovery based on Zabbix.

2020

**Arch Linux Trusted User**, *Arch Linux*.

Maintain packages in the official repository,

2016

**Vox Pupuli Project Management Committee**, *Vox Pupuli*.

Strategic Development, Leadership, Community Representative

- Provide feedback, guidance and knowledge transfer across 140+ contributors;
- Onboarding for new community members;
- Mitigated security issues in Puppet modules;
- Kept track of outdated module/gem dependencies and regular releases;
- Represented the community at events and conferences;
- Escalated bugs and feature requests from the community to Puppet Inc.

2015

### **Puppet Contributor, Vox Pupuli / Puppet community.**

Development, bugfix and documentation

- Developed and realized a migration plan from Puppet Version 3 → 4 → 5 → 6;
- Reviewed and merged incoming patches for 150+ Puppet modules and tools;
- Maintained the test matrix for 130+ Puppet modules and do release management;
- Provided patches and reviews for all major Puppet Inc. owned modules;

2015

### **Developer and Maintainer, VirtAPI-Stack.**

Architecture design and development

- Designed and documented an API for a cloud infrastructure;
- Maintained a public fork of the installimage;
- Created a live linux image for rescue operations (LARS).

## **Education**

2014  
2018

### **Equivalent to Bachelor of Engineering for Computer Science, Heinrich-Hertz-Europakolleg der Bundesstadt Bonn, Valedictorian.**

## **Certifications**

2017

### **Cisco Certified Network Associate, Cisco Inc.**

2017

### **ITIL® v3 Foundation Examination, AXELOS Limited.**

2013

### **Puppet Fundamentals Administrator, Puppet Inc.**

## **Publications and Projects**

2019

### **Vox Pupuli Tasks, [github.com/voxpupuli/voxpupuli-tasks](https://github.com/voxpupuli/voxpupuli-tasks).**

Design and develop a Rails application to automate community management and contributions via GitHub API notifications

2017

### **Datawarehousing for Cloud Computing Metrics, <https://bastelfreak.de/thesis-de.pdf>.**

Analyse software to measure cloud metrics in a datawarehouse style (mentored by David Schmitt, written in German)

2015

### **Conference Speaker, <https://github.com/bastelfreak/talks>.**

Speaker on conferences and meetups about DevOps culture, community management and Puppet

2015

2017

### **Network Design Principles, <https://github.com/bastelfreak/talks>.**

Taught multiple lessons about network design in datacenters and carriers, including routing, switching, network-security and IPv6

2015

### **VirtAPI Paper, <https://bastelfreak.de/virtapi.pdf>.**

Documentation about a self-designed API to manage a QEMU cloud environment with Puppet

## **Languages**

German First language

English Fluent

Daily practice, conference talks and lectures given in English