

# Tim Meusel

*DevOps Engineer*

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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

Methods Object Oriented Programming, MVC, Unit Tests, UML

Source Management Git, SVN

Tools Bitbucket, GitHub, GitHub Actions, Travis CI, Jenkins

### Systems and Networks Administration

Web Apache, Lighttpd, 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

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## Experience

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2014

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

DevOps Engineer, System Administrator

- DevOps Engineer:
  - 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, (includes facts, types & providers, unit and acceptance tests);
  - 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 (Consul, Vault, Kafka, Databases, Firewalling, Monitoring);
  - Mentored students for their Bachelor and Master thesis;
  - Product Owner for multiple infrastructure services.
- System Administrator:
  - Operated multiple Puppet-managed Cloud platforms with more than 3300 nodes;
  - Tested and evaluated new hardware regarding power consumption, efficiency and cloud instance density;
  - Enhanced the hardware monitoring to predict disk failures;
  - Automated and optimized the consolidation of legacy platforms.

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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.

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2020

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

Maintain packages in the official repository,

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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**

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