

# Tim Meusel

*DevOps Engineer*

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🐙 [github.com/bastelfreak](https://github.com/bastelfreak)

🚗 Driving License

★ 1993-04-15

*DevOps is all about empathy*

ROB NELSON

## Skills

### Expert Skills

Software Puppet\*, installimage\*

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

### Development

Languages C#, Python, Shell/Bash, Ruby

Frameworks RSpec, Beaker, Sinatra, Rails

Databases MySQL, PostgreSQL

Methods Object Oriented Programming,  
MVC, Unit Tests, UML

Source Git, SVN

Tools Bitbucket, GitHub, Travis CI, Jenkins

Management

### 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 / Bootstrapping, Kickstart, Puppet\*,  
Deployment installimage\*

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

Operating GNU/Linux (Debian, Ubuntu,  
Systems 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

\*Maintainer

<sup>†</sup>Contributor

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## Experience

2014

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

DevOps Engineer, System Administrator

- DevOps Engineer:
  - Architected and deploy a scaleable ELK-Stack with Graylog;
  - Planned and executed migrations from Puppet versions 3 to 4 to 5;
  - Wrote and contributed to 120+ public Puppet modules, (includes facts, types & providers, unit and acceptance tests);
  - Designed and built a technical fabric to provision physical servers for multiple brands;
  - Planned the architecture of a cloud platform based on Qemu and Kubernetes, including a scaling network topology;
  - Provided self services for developers with Puppet (Consul, Vault, Kafka, Databases, Firewalling, Monitoring);
  - Packaged software for Archlinux. Operate and improve the package build systems and package repositories;
  - 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.

2012

2014

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### **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.

2016

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

Strategic Development, Leadership, Community Representative

- Provide feedback, guidance and knowledge transfer across 120+ 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.

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2015 **Puppet Contributor**, *Puppet Inc*, Internet.

Development, bugfix and documentation

- Developed and realized a migration plan from Puppet 3 to 4;
- Reviewed and merged incoming patches for 150+ Puppet modules and tools;
- Maintained the test matrix for 100+ Puppet modules and do release management;
- Provided patches and reviews for all major Puppet Inc. owned modules;
- Migrated modules to Puppet 4.

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2015 **Developer and Maintainer**, *VirtAPI-Stack*, Internet.

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).

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## Education

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2014–2018 **Equivalent to Bachelor of Engineering for Computer Science**, *Heinrich-Hertz-Europakolleg der Bundesstadt Bonn*, Valedictorian.

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## Certifications

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2016–2017 **Cisco Certified Network Associate**, *Cisco Inc.*

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2017 **ITIL® v3 Foundation Examination**, *AXELOS Limited*.

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2013 **Puppet Fundamentals Administrator**, *Puppet Inc.*

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## Publications

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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)

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2016–2017 **Conference Speaker**, <https://github.com/bastelfreak/talks>.

Speaker on conferences and meetups about DevOps culture and community management

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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

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2015 **VirtAPI Paper**, <https://bastelfreak.de/virtapi.pdf>.

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

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## Languages

German First language

English Fluent

*Daily practice, conference talks and lectures given in English*