Tim Meusel

Senior IT Automation Consultant

Neuendorfer Str 8
56070 Koblenz
+49 163 7015493
tim@bastelfreak.de
xing.com/profile/Tim_Meusel
github.com/bastelfreak
Driving License
★ 1993-04-15

DevOps is all about empathy

Rob Nelson

Skills

Expert Skills

Software	Puppet*†, installimage*	Operations	Archlinux†, Gentoo, QEMU/KVM

Development

Languages	C#, Python, Shell/Bash, Ruby	Frameworks	RSpec, Beaker*†, Sinatra, Rails
Databases	MySQL, PostgreSQL, Vault/Consul	Methods	Object Oriented Programming, MVC, Unit Tests, UML
Source Management	Git, SVN	Tools	GitHub, GitHub Actions, GitLab, 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*†, installimage*, Foreman*†	Infrastructure Software	ISC-DHCPd, OpenVPN, hpa-tftpd, NFS, Marmoset, OpenLDAP
Operating Systems	GNU/Linux (Debian, Ubuntu, RedHat, Archlinux†, 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*, Berlin.

– Puppet and Linux High Availability trainings;
– Work as architect to design new infrastructure for customers;
– 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;
– 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;
– 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 230+ contributors;
– Onboarding for new community members;
– Mitigated security issues in Puppet modules & related Tooling;
– 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 $3 \rightarrow 4 \rightarrow 5 \rightarrow 6 \rightarrow 7 \rightarrow 8$;
– Reviewed and merged incoming patches for 250+ Puppet modules and tools;
– Provided patches and reviews for all major Puppet Inc. owned modules;
– Maintained the CI for 200+ Puppet modules, 60+ gems and container images;

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

Architecture design and development
– Designed and documented an API for a cloud infrastructure & maintained 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

2023 **Puppet Certified Consultant,** *Puppet Inc.*.

2022 **Puppet Certified Professional,** *Puppet Inc.*.

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/vox-pupuli-tasks*.

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

2017 **Datawarehousing for Cloud Computing Metrics**, *bastelfreak.de/thesis-de.pdf*.

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

2015 **Conference Speaker**, *github.com/bastelfreak/talks*.

Speaker at conferences about DevOps culture, community management and Puppet

2015
2017 **Network Design Principles**, *github.com/bastelfreak/talks*.

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

2015 **VirtAPI Paper**, *bastelfreak.de/virtapi.pdf*.

A self-written API to manage a QEMU cloud environment with Puppet

Languages

German First language

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