

Benjamin Oluf Lorenzen

Projects

main projects / experience

- 2005 – *today* private usage of linux, running own linux and freenas servers
- 2005 – *today* bash and python scripts for various occasions
- 2005 – 2015 **operation of private mailserver for myself and family members**, *Debian, Exim, Spamassassin, Courier, Mailman, Roundcube.*
- 2005 – 2016 **operation of private DNS servers**, *bind, knot, PowerDNS.*
- 2007 – *today* **Dokuwiki for various usecases.**
- 2008 – 2009 **vocational school course about network security**, MMBBS Hannover.
grade: 100 %
- 2008 – 2010 **CCNA**, *participation in a course for the "Cisco Certified Network Associate" certification*, MMBBS Hannover.
grade: *participated with special engagement*
completed subcourses: *Network Fundamentals, LAN Switching and Wireless, Routing Protocols and Concepts, Exploring the WAN*
- at least 2009 – *today* **git for various usecases, trainings.**
- 2009 **Split-Access-Routing with QoS on Linux**, *educational project work as Fachinformatiker, Debian-Linux, QoS (tcng), Policy-Routing,* <https://blogs.mafia-server.net/nur-bahnhof/2015/11/projektarbeit-fachinformatiker-systemintegration-2009/>.
- 2009 **NAG 2009**, *participation in Ciscos "Networking Academy Games"*, Faculty of Informatics and Information Technologies, Slovak University of Technology in Bratislava, competition between schools.
- 2010 – 2013 **Juniper ScreenOS**, *self-study and successful application in customer projects, multiple locations, > 12 devices, high availability.*
- 2010 **design and assembly of a multi-layer firewall system**, *client roject, Debian-Linux, Juniper ScreenOS (active/passive-cluster), multiple locations and mobile clients.*
- 2010 **migration from SVN to GIT**, *internal project, internal training and workshops.*
- 2010 – 2013 **Jenkins**, *introduction as build server.*
- 2011 – 2013 **packaging of software into Debian packages**, *internal project, switch of the software-deployment from simple archives to debian packages.*
- 2011 – 2012 **administrative GUI for linux**, *internal pilot project, HTTP-interface with Python/Flask.*
- 2011 **creation of a LiveCD**, *internal and client project, adaption of GRML- and Debian Live-CDs for internals and as emergency-fallback for clients.*
- 2011 **introduction of a proper release cycle based on git branches**, *internal project.*

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- 2011 **introduction of gerrit**, *internal project*, introduction of sourcecode review and review of changes (differences between textual configurations on linux servers).
- 2012 **introduction of a wiki**, *internal project*, migration of plain text files and e-mails into *Dokuwiki*.
- 2012 **held a workshop about linux and networks**, *client project*, education about CLI basics, file tree structure, network basics (TCP/IP).
- 2012 – 2013 **participation in a product to transparently proxy and accelerate FTP transfers**, *research project*, e.g. Linux TPROXY, Iptables, <https://www.axxeo.de/forschung/axxelbox.html>.
- 2013 **introduction of logstash**, *internal project*, management of system logs from internal and customer systems.
- 2013 **communication between distributed systems**, *client project*, distribution of sensor data from minimal, low power systems and a central system via *AMQP*, <https://www.axxeo.de/forschung/socieer.html>.
- 2013 **management of sensor data**, *client project*, visualization and archival of centrally collected data, <https://www.axxeo.de/forschung/socieer.html>.
- 2013 – 2016 **Microsoft Exchange**, *management*.
- 2013 – 2016 **Microsoft ActiveDirectory**, *management*.
- 2013 – 2016 **Microsoft Windows Server**, *management, migrations*.
- 2013 – 2016 **Deskcenter**, *managemnt of windows clients, licenses, rollout of OS and software*.
- 2013 – 2016 **Veeam**, *introduction, management*.
- 2013 – 2016 **Trendmicro AntiVirus**, *management*.
- 2013 – 2016 **VMWare VDI**, *management*.
- 2013 – 2016 **Sophos UTM**, *management*.
- 2013 – 2016 **APC UPS**, *management*.
- 2013 – 2016 **NetApp**, *management*.
- 2015 – 2016 **Ansible**, *development of a redunant e-mail-server infrastructure, private/leisure time, development not finished*, <https://github.com/mailverein>.
- 2016 **EMC VNX**, *management*.
- 2016 **Ansible**, *internal project*, development of a playbook to quickly create a test environment of a dynamic website including a webshop.
- 2016 – today **caddy**, *introduction to effortlessly get TLS certificates for internal and external HTTP services*.
- 2017 **iPXE, CoreOS**, *internal project*, automatic installation/rollout, customized boot menu, automatic installation and configuration.
- 2017 **capacity management**, *internal project*, development of several tools/scripts to get early warnings of capacity bottlenecks.
- 2017 – 2018 **InfluxDB, Telegraf**, *time series database, gathering metrics*, in combination with the capacity management, several python and bash scripts to gather data.

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- 2017 – 2018 **Gitlab**, *internal project*, cluster with DRBD, Docker, Pacemaker/Corosync, selection process, company wide introduction as GIT server, documentation and workshops for the CI/CD part in the development department.
- 2018 **Ansible AWX**, *internal project*, evaluation, access via python/REST API to run ansible playbooks, get states of that etc..
- 2018 – *today* **Ansible**, *internal/customer project*, various roles to set up internal services and colleagues' macbooks.
- 2018 – *today* **concourse, docker, packer, kiwi**, *customer project*, management of concourse to generate OS images to be used by customers; Windows Server and linux (SLES, Ubuntu, RHEL, CoreOS, FlatCar) image generation with packer, kiwi.
- 2018 – *today* **OpenStack, Kubernetes**, *customer project*, 24/7 management, customer support of various regions/DCs running OpenStack on Kubernetes.

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smaller / secondary projects

- 2013 **introduction of a wiki**, *internal project*, development of a wiki for IT-internal manuals as well as manuals for all other employees.
- 2013 **replacement of nagios**, *internal project*, migration from nagios to *shinken* as well as extension of coverage.
- 2014 **introduction of Owncloud**, *internal project*, evaluation and introduction of Owncloud for and easy internal and external data transfer, several scripts to automate tasks.
- 2014 **introduction of Veeam**, *internal project*, centralization and simplification of backup procedures.
- 2014 **introduction of Deskcenter**, *internal project*, centralization/automation of Fat-Client OS/software installation as well as license management.
- 2014, 2018 **introduction of rancid**, *internal projects*, centralization of management and configuration-backup of switches.
- 2014 – 2015 **migration of Windows XP**, *internal project*, transition to Windows 2008/8.
- 2015 – 2016 **Jenkins**, *replacement of a Windows based tasks-server*.
- 2016 **Gitlab**, *introduction for local source code management and as bugtracker*.
- 2016 **migration fileserver**, *internal project*, migration of hardware- and Windows-VM CIFS-fileservers.
- 2016 **introduction of e-mail archival**, *internal project*.
- 2016 **introduction of Sightnet**, *internal project*, documentation of network infrastructure (layer one, office ethernet jack to switches).
- 2016 **replacement of OSX**, *internal project*, migration to Windows 10.
- 2016 **evaluation of sandstorm**, *internal project*, hosting of multiple collaboration tools.
- 2018 **pass, gopass**, *internal project*, selection, implementation, documentation, training for password management in a team.
- 2018 **Ceph**, *internal project*, received training, held internal training, small extensions to official documentation.
- 2018 **git, ansible, concourse, dns, network**, *internal project*, held internal training.

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