

Benedikt Kristinsson

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NATIONALITY Icelandic (EEA citizen)

WORK **2017: Systems Engineer at Cubits (Dooga Deutschland UG)**
Maintained an existing setup with Ganeti running LXC and Docker containers. Worked on automating deployments and building a CI/CD pipeline.

Keywords:: linux, docker, ganeti, lxc, datacenters

2016-2017: Lead DevOps Engineer at INVENTORUM GmbH
Leading a small DevOps team for INVENTORUM, working with the entire tech team. We developed new infrastructure from scratch as well as maintained a legacy app.

Joined as part of a new team that decided to rebuild the app along with its infrastructure and create a new release. Defined the new infrastructure in AWS defined Terraform, with environments running Docker Swarm and an automatic release pipeline powered with Jenkins at its core. The CI system allowed developers to create releases for microservices and libraries on GitHub, microservices were then deployed and seamlessly upgraded on the Docker Swarm through our Docker registry, whereas the libraries were released to our internal npm registry. Also automated the deployment of WordPress sites, and Dockerized all applications.

Worked on documenting the legacy app and deploying it on AWS, which then saw a significant performance increase after switching.

Keywords: AWS, Docker, Linux, node.js, Python, Debian, Jenkins, Groovy, swarm, microservices, git, npm

2013 - 2016: Lokun
Founded the VPN service Lokun, after winning Startup Weekend Reykjavik with a friend. Successfully disrupted bandwidth pricing for home connections in Iceland.

We built a microservice-oriented infrastructure with a self-healing and loadbalanced VPN cluster spread over 3 datacenters. We were among the top bandwidth consumers in Iceland, pushing around 40TB/month at peak usage.

Accepted credit card payments in a way that de-coupled usernames from transaction numbers, along with accepting Bitcoin without 3rd party services and automatically accepting transfers from local banks. Source code is published on GitHub under an AGPL license.

Keywords: OpenVPN, Python, Linux, bottle.py, Debian, dpkg, Bitcoin, microservices

2016: Freelancer
Freelanced on a couple of projects while travelling.

ARX ehf: Wrote several small services for the staff intranet at clinics in Reykjavik.

Aklamio GmbH: Brought in solve issues with Xen Hypervisor and Linux networking.

Reykjavík Media ehf: Security Consultant.

UN Relief and Works Agency for Palestine Refugees in the Near East (UNRWA)

Developed a modernized solution to manage information for internal monitoring and sensitive information on beneficiaries within UNRWA. Subcontractor.

2015: Software Engineer at Dohop.com

Working on the Dohop backend, a large distributed system built on Python with Twisted. Worked as a developer on the GatwickConnects product to turn it into a SaaS solution. Configured Varnish to defend against DoS attacks and price scraping from unauthorized 3rd parties. Implemented a centralized logging system with ElasticSearch and Kibana, and assisted with business intelligence.

Keywords: AWS, Python, twisted, async, PostgreSQL, MySQL, Varnish, ptp, git, ElasticSearch, elk

2012 - 2015: Lead Programmer at Auðkenni

Designed and developed the Registration Authority for digital certificates on SIM-cards from the ground up and oversaw it's technical roll-out. Was responsible for secure coding practices and code review.

Keywords: .NET, C, Python, git, SQL Server, PKI

2011 - 2012: Substitute teacher at Reykjavik Technical College

Organized and taught a course on databases at the School of Information Technology, preparing students for a degree in Computer Science. Was personally asked by my former teacher to fill in for them for a year. Taught students in a project-based manner, giving them practical experiences of designing databases for their own needs. Also taught them about database theory and how database internals work.

2007 - 2011: UT Ráðgjöf

Running Linux servers and networking devices for various clients.

Tækniskólinn Worked as in-house IT staff, managing classroom computers and teachers laptops, some of which used specialized software as this was a tradeschool. Did large-scale deployments and imaging of those computers, as well as normal maintenance and upgrades. Also took over maintenance of several old Linux and FreeBSD servers that were running, upgraded and moved them to modern servers. Decommissioned NetWare servers. Worked on a network spanning three buildings, rebuilt the network and documented it.

Menntamálaráðuneytið Deployed and maintained various Linux servers, running Moodle and other education-centered services for several secondary-level schools:

- Fjölbrautarskóli Suðurlands
- Fjölbrautarskóli Suðurnesja
- Fjölbrautarskóli Mosfellsbæjar

Keilir Maintained and set up Linux servers, a segmented WiFi network. Connected Keilir to the university network in Iceland.

Háskólavellir Connected the student campus at Keilir via cable to the university network, providing them with internet access and effectively being an ISP on RHNNet.

Keywords: Linux, cisco, ios, Debian, CentOS, MySQL, vmware, win2003, active directory, ms exchange, postfix, dovecot, spamassassin, bind, dns, racks, asterisk, sip

EDUCATION

Reykjavík University (2009 - 2012) B.Sc. in Computer Science

- *The Arduino as a Hardware Random-Number Generator* (B.Sc. thesis. Advisor: Ymir Vigfusson)

Work has been cited in peer-reviewed journals as well as a Ph.D. thesis. All code and contributions on GitHub.

- *Trusted Sensors and infrastructure* (Research assistant. Advisor: Kristjan Valur Jonsson)

We wrote a proof-of-concept implementation of the proposed work as well implemented a full AES crypto suite for the Arduino, released on GitHub.

- *Reasoning about security properties of the TSense protocols with ProVerif* (Advisor: Kristján Valur Jonsson)

Undergraduate Research Opportunities Program

- *HearSay House* (MIT Program in Art, Culture and Technology)

Volunteered to assist with coding, debugging, experimenting, configuring servers, building backend and setting up an art installation in the Höfði House in Reykjavík.

Reykjavík Technical College (2007-2009)
School of Information Technology.

AWARDS

2013: Winner of Startup Weekend Reykjavik. This led to me co-founding Lokun.

SKILLS AND INTERESTS

I am a CouchSurfing host in Berlin, inviting travellers from all over the world into my home. This has given me some amazing cultural exchange and led to many great friendships.

I speak Icelandic, English and Swedish fluently.

REFERENCES

Available upon request.

A current version of this document is maintained at benedikt.sudo.is/cv1.pdf