

# ERNESTAS LUKOŠEVIČIUS

## Contacts

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## Profile

Skilled IT professional with extensive background in Kubernetes, Linux, application scalability, high availability, cloud computing, and automation. Experienced in scaling and provisioning systems with thousands of requests per second with 0% downtime. Worked on critical systems for companies like Tesla, Cisco, major banks, social networks, media streaming sites and others. Occasional contributor to open source projects.

## Core skills

- Web application architecture scaling in cloud and on-premises
- Kubernetes, Docker, Xen, VMware ESXi, and QEMU/KVM with Libvirt
- Automation and infrastructure management with Terraform, Puppet, Salt, Ansible, Packer, Vagrant
- Languages: bash, Go, Python, PHP
- Makefile and Debian packaging for everything
- Always eager to go the extra mile, learn more, and do the best thing in the right situation

## Work experience

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2018-now 1 year	<b>Hostmaker</b> Property management system in London	<b>Cloud Infrastructure Engineer</b> <ul style="list-style-type: none"><li>• Automated scalable deployments with Terraform and Kubernetes</li><li>• AWS security and infrastructure planning and engineering</li><li>• Architected dynamic environments capable of creation in less than 10 minutes (instead of hours)</li><li>• Continuous deployment improvements with CircleCI</li><li>• Experience with kops, aws-service-operator, kiam, cert-manager, etc.</li></ul>
2017-now 2 years	<b>Make IT All Work</b> Technology consulting	<b>Cloud Infrastructure Engineer</b> <ul style="list-style-type: none"><li>• Automated deployments with Ansible, Terraform and Packer</li><li>• Reduced AWS costs by 70%</li><li>• Moved to and scaled multiple sites and development environments to cloud and containers</li><li>• Assisted in developing architecture for sites handling tens of thousands of concurrent sessions with minimum available resources</li><li>• Infrastructure monitoring with Datadog, Monit, NewRelic and other</li></ul>
2014-now 5 years	<b>Otrapuse.lv</b> Largest dating site in Latvia with 250,000 users	<b>System Administrator</b> <ul style="list-style-type: none"><li>• Scaled and improved infrastructure of the site, which was getting up to 4,000 backend requests per second</li><li>• Upgraded and redeployed whole infrastructure with Ansible</li><li>• High availability: DRBD, Keepalived, MongoDB</li><li>• Monitored with Zabbix, Munin, Monit and custom scripts</li><li>• Scaled MongoDB sharded replica clusters</li><li>• HAproxy load balancing, Varnish caching, SSL termination</li><li>• Log maintenance with Logstash and Kibana (ELK stack)</li><li>• Network analysis and debugging</li><li>• Raw data recovery from disk dumps</li></ul>

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2014-2018 4 years 9 months	<b>SameSystem</b> Retail shop workforce management platform	<b>Server Engineer</b> <ul style="list-style-type: none"> <li>• Puppet automation: wrote modules, improved architecture of the master with high availability, r10k, MCollective, ENC, Docker</li> <li>• Service and file system high availability using GlusterFS, Ceph, Pacemaker, Corosync and Keepalived for various other services</li> <li>• Improved CI test performance 4 times by Dockerizing and offloading Jenkins slaves to Amazon EC2 spot instances</li> <li>• Scaled out and managed Jenkins with 100s of nodes and jobs</li> <li>• MySQL tweaking, replication, monitoring, backups</li> <li>• Accelerated MySQL backup restoring times from 6 h to 30 min.</li> <li>• Proactive monitoring: Zabbix, Munin, Monit, ELK</li> <li>• Resolved obstacles in development, deployment and scaling</li> </ul>
2015 1 year	<b>Domino Data Lab</b> Data science platform with clients such as Cisco, Tesla, 8tracks, Mashable, lumosity	<b>DevOps Engineer</b> <ul style="list-style-type: none"> <li>• Java application deployment architect for AWS and on-premises: Docker, Salt, Terraform</li> <li>• Containerized various software and made appropriate patches</li> <li>• Made frontend app highly available without losing a single request while deploying</li> <li>• Automated application deployment with Salt</li> <li>• Helped developers with various operations</li> </ul>
2012-now 6 years	<b>Aciety</b> B2B outsourcing platform	<b>System Administrator (part-time)</b> <ul style="list-style-type: none"> <li>• Amazon EC2 and Microsoft Azure instances</li> <li>• Automated backups to Amazon Glacier with Python and boto</li> <li>• Implemented Munin, Zabbix monitoring</li> <li>• Deployed an efficient development environment on Docker</li> <li>• Symfony application deployment with Capistrano</li> <li>• Administered many other applications and web servers</li> <li>• Technical support for developers</li> </ul>
2013 2 months	<b>Omnitel (TeliaSonera)</b> One of the largest telecommunication companies in the Baltic states	<b>Junior System Administrator (intern)</b> <ul style="list-style-type: none"> <li>• All kinds of Linux/VMware/Solaris administration tasks</li> <li>• Implemented LIO SCSI Target on Debian</li> <li>• Root cause analysis of various issues (i.e., kernel traces)</li> <li>• Configured and monitored Cisco devices</li> <li>• Developed efficient network monitoring for Cacti (PHP and rrd)</li> </ul>
2006-2011 5 years	<b>Independent Contractor</b>	<b>System Administrator</b> Setting up and maintaining Linux servers
2008 11 months	<b>Lietuvos Rytas</b>	<b>Journalist</b> "Kompiuterija" magazine (IT topics targeted to advanced users)

## Other activities and achievements

2018	<b>AWS Certified Solutions Architect - Associate</b> 2P9Z55FCJEEEQSCS
2017	<b>Linux Foundation Certified System Administrator</b> LFCS-1700-001297-0100
2007-2011	<b>Author of Versme.net blog (IT topics)</b> +400 articles, +220,000 unique visitors
2007	<b>LEKP keyboard layout developer for Linux</b> Layout is included in the official X.Org upstream