

Merijntje Tak

Curriculum Vitae

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Professional experience

- 2017–Current **Lead DevOps Engineer**, *Liberty Global B.V.*, Schiphol-Rijk, NL.
Development of a real-time big data processing platform.
- Lead the DevOps team in implementing the big data platform (30%). Duties included reporting, architecture, advising, prioritizing and incident management.
 - Implementing Apache Kafka, Zookeeper, Spark, Elasticsearch, Logstash, Kibana, Mesos, Marathon, Chronos and HDFS.
 - Implementing interfaces between various big data components.
 - Operating the platform, troubleshooting component failures and (Python/Scala) Spark jobs.
 - Designing, coding and testing Ansible playbooks using GitHub as a VCS.
 - Development of Docker containers, deployed through Ansible.
 - Developing and implementing monitoring for various components (based on JMX, Nagios and Graphite with Grafana).
- 2014–2017 **Lead Technical Innovation Specialist**, *Ministry of Defence*, Den Haag, NL.
Concept development and experimentation (CD&E) for the Dutch armed forces.
- Identification, authentication and authorization technologies.
 - Intakes for new projects, technical advice and requesting approvals.
 - Designing and building several OpenStack clusters, including management scripts.
 - Cybersecurity (encryption, VPN/payload encryption, risk reduction).
 - Designing and implementing modules for Puppet and creating Docker containers.
 - Networking (LTE, satcom, ad-hoc WiFi).
- 2013–2014 **Chef Specialist**, *Ministry of Infrastructure and the Environment*, Den Haag, NL.
Automating deployment of a new middleware platform using Chef in an Agile BDD environment.
- Establish a development method for developing Chef cookbooks.
 - Designing a Chef platform and Jenkins pipelines.
 - Writing Chef cookbooks, chefspec and chef-workflow scripts.
 - Developing a deployment and release process for middleware applications (WSO2, Consul).
- 2013–2013 **DevOps Engineer**, *Digidentity B.V.*, The Hague, NL.
Digidentity is an identity management and Certificate Service Provider.
Maintaining 100 Ubuntu Linux instances in a highly versatile Agile DevOps environment
- Supporting developers in deploying and running custom built Ruby-on-Rails applications.
 - Writing Chef recipes for automating server and RoR application deployment.
 - Supporting and deploying web application servers.
 - Building and supporting database clusters.
 - Maintaining and supporting several root certificate authorities.

- 2012–2013 **Unix Engineer and Coordinator**, *Tele2 Nederland B.V.*, Diemen, NL.
Tele2 is a telco/ISP providing consumer DSL, 2/3G MVNO and enterprise services.
 Maintaining 1000 Unix servers and coordinating operational tasks within the Unix team in an Agile Scrum environment.
- Second and third level hardware and OS support on Linux, HP-UX and Solaris systems.
 - Maintaining a enterprise-level managed service and LAMP hosting environment.
 - Optimizing existing and new low-level operational and Scrum-related processes to be more flexible towards the organization.
 - Supporting Tomcat and other application servers.
 - Third line support for NetApp and HP 3PAR SAN storage systems.
 - Maintaining a mail platform for 100.000+ users.
 - Supporting application development teams with Unix and application expertise.
- 2011–2012 **Sr. Unix Engineer**, *T-Mobile Netherlands B.V.*, The Hague, NL.
Online Breedband is an ISP providing DSL service for approx. 300.000 customers.
 Supporting over 200 Solaris, Linux and FreeBSD instances in a 24x7 enterprise ISP and business environment.
- Second and third level hardware and OS support on Sun SPARC, Intel and VMware ESXi systems on a 24x7 on-call duty roster.
 - Moving critical business systems to different datacenters, while keeping 100% uptime.
 - Supporting customer facing ISP and provisioning services such as mail, DNS, webhosting, DHCP and RADIUS for 300K+ customers.
 - Designing and supporting platforms for business systems (CRM, DWH, billing, etc.).
 - Designing and supporting internal services such as LDAP, Jump/Kickstart, Nagios, Puppet and load balancers.
 - Managing and supporting storage systems based on NetApp, ZFS and Sun Fishworks technology.
 - Designing, implementing and delivering systems and applications for new projects next to improving current systems and applications.
 - Creating outlines for new processes and SLA's for working with new customers.
- 2009–2011 **Unix Engineer**, *Ziggo B.V.*, The Hague, NL.
Ziggo is a national cable operator, serving approximately 50% of the Dutch cable market.
 Supporting over 250 Solaris 10 servers in a 24x7 enterprise business environment.
- Virtualizing 100 physical servers to Solaris Zones to increase datacenter and management efficiency.
 - Second and third level hardware and OS support on Solaris 10 systems.
 - Designing and deploying Sun Solaris systems using Jumpstart, Zones, ZFS, LDOMs and resource management.
 - Supporting basic services such as LDAP, DNS, SMTP, clusters and systems monitoring based on Hobbit, Sun Management Center and System Center Operation Manager.
 - Creating new tools in order to increase company efficiency. I built an OS performance monitoring tool using rrdtool, SNMP and Perl.
 - Handling project requests and user questions in an customer-focused way while teaching colleagues.
 - Pinpointing and resolving performance problems in Solaris systems and applications using the Solaris *stat tools, truss and DTrace

- 2008–2009 **Support Services Engineer Back Office Management Systems**, *Ericsson Telecommunicatie BV*, Rijen, NL.
Third line support on over 150 servers running management systems for cellular, fixed and core networks.
- Implementation and third level support of network management systems running Solaris, Linux, HP-UX, and Windows, all operating within customer networks on a 24x7 on-call duty roster.
 - Designing and implementing Sun Management Center at several key enterprise customers, including network and technical designs, all to customer specifications.
 - Clearing a backlog on documentation on several key systems used in order to increase the departments professionalism level.
 - Regularly taking on new challenges in areas me or my department knew nothing about, such as Sun storage appliances, CORBA proxies (PrismTech) and SAP Business Objects.
- 2008 **NOC Team Leader and System Administrator**, *Ericsson South Africa PTY LTD*, Cape Town, ZA.
Leading a network operations team (10 FTE) and setting up and administering a fault and performance management system for a trail cellular network at Vodacom South Africa.
- Setting up and coordinating a network operations team with members from all over the world, including performance, access network and core network specialists.
 - Training engineers in day to day operations in a network operations center.
 - Setting up and administering a fault and performance management system (Ericsson OSS-RC running on Solaris with a Citrix MetaFrame and Apache Tomcat frontend).
 - Directly reporting to the project director and translating customer requirements into an efficient project plan.
- 2007–2008 **System Administrator**, *Ericsson Telecommunicatie BV*, Rijen, NL.
Desktop client support and first line Unix support for network operations.
- Monitoring server systems (Linux, Solaris, HP-UX, Windows), using BigSister and Sun Management Center.
 - Operator work such as creating user accounts (Solaris, Linux, HP-UX, Windows AD, OpenVMS), backups (tape backups, NetBackup) and hardware replacement (Sun and HP servers).
 - Fixing technical problems which no department would take responsibility for to keep enterprise customers satisfied. This included custom (Juniper and Cisco) VPN boxes, client side network issues and problems in interdepartmental areas.
 - A no-nonsense practical approach to solving problems, in which I had no expertise or experience.
- Honored with the Ericsson Outstanding Performance Award.
- 2006–2007 **Radio Access Network Operator**, *Ericsson Telecommunicatie BV*, Rijen, NL.
First line monitoring, fault management and maintenance for multiple cellular operators in Europe with approximately 23 million end users on a 24x7 rotational shift.
- Working in a high pressure environment dealing with day to day operations in cellular networks.
 - Instructing new colleagues.
 - Streamlining procedures to minimize red tape.
 - Exploring new technical possibilities within the management systems to increase efficiency (scriping in Bourne and Korn shell).

Education

Courses

- 2015 **Archimate 2 Foundation**, *OpenGroup/BIZZdesign*, certified.
- 2015 **Ministry of Defence Cyber self study programme**, *Certified Secure*, certified.
- 2013 **The Exploit Laboratory: Black Belt Edition**, *Net-Square Solutions*.
- 2013 **Cisco Certified Network Associate (CCNA)**, *Cisco Systems*, certified.
- 2013 **The Exploit Laboratory**, *Net-Square Solutions*.
- 2012 **IBM Tivoli Identity Manager**, *IBM*.
- 2011 **Red Hat Certified Engineer (RHEL6)**, *Red Hat*, certified.
- 2011 **Red Hat Certified System Administrator (RHEL6)**, *Red Hat*, certified.
- 2011 **Solaris System Performance Management**, *Oracle*.
- 2010 **MX000 administration**, *Sun Microsystems*.
- 2010 **Performance tuning with DTrace**, *Sun Microsystems*.
- 2010 **VCA (operational safety awareness)**, *PBNA*, certified.
- 2009 **Logical domains and ZFS**, *Sun Microsystems*.
- 2008 **Analytical troubleshooting**, *Kepner-Tregoe*.
- 2007-2008 **Various technical courses (telecom)**, *Ericsson*.

Formal education

- 2012–2015 **Computer Science**, *The Hague University*, The Hague, NL.
Class of 2015 (expected). Bachelor computer science.
- 1999–2006 **HAVO**, *Mgr. Frencken College*, Oosterhout, NL, *Graduated*.
High school, with elective subjects French, mathematics, physics, chemistry and IT.
Driver's License, European categories A and B (motorcycle and car).

Conferences

- 2015 **Chaos Computer Congress**, *Hamburg, DE*.
- 2015 **DEFCON**, *Security*, Las Vegas, NV, USA.
- 2014 **Chaos Computer Congress (31C3)**, *Hamburg, DE*.
- 2014 **Hack In The Box**, *Amsterdam, NL*.
- 2013 **DEFCON**, *Security*, Las Vegas, NV, USA.
- 2013 **Black Hat**, *Security*, Amsterdam, NL.
- 2010 **NLUUG**, *Unix*, Ede, NL.

Languages

- Dutch **Native**
- English **Fluent**

Professional and personal

Skills

Hardware

Sun/Oracle	Blade series, Enterprise series (including E25K), Fire series, T-series, X-series, M-series (including M9000), SunRay
HP	DL380 G3/4/5/6, 9000 D-Class
NetApp	FAS3240
Cisco	ASA55xx, C2600, C2950, C3600, C3750, UCS blade system

Software

Operating systems	Solaris on SPARC and x86, HP-UX: 11.23/31 on Itanium Linux: Red Hat Enterprise Linux, Fedora, CentOS, Debian and Ubuntu on x86
Volume management	Solaris Volume Manager, ZFS, MPxIO, NetApp ONTAP, Linux & HP-UX LVM
File systems	NFS, UFS, ZFS, WAFL, GlusterFS
Virtualization	Sun LDOMs, Solaris Zones, VMware vSphere 4 & 5, Linux QEMU/KVM, Proxmox, Docker
Backup	Symantec NetBackup, Hitachi CommVault
Networking	Solaris IPMP, Vyatta, CrossBow, Open vSwitch
Cluster	Solaris Cluster 3.1, Apache Mesos, Marathon, Chronos
Monitoring	BigSister, Hobbit, Nagios, Sun Management Center, Cacti, rrdtool, net-snmp, JMX, collectd
Enterprise monitoring	Ericsson OSS-RC, HP OpenView Operations, HP OpenView NNM
Configuration Management	Chef, Puppet, Ansible
Scripting	Perl, Bash, Ruby
Programming	C, C# (.NET)
Data processing	Kafka, MQTT, Spark, Node-RED, Flume, Logstash
DNS	Bind9, PowerDNS
Mail	Postfix, Courier, Procmail, Dovecot, qmail
LDAP	Sun Java System Directory Server 5 and 6, Apache DS, openldap
Database	MySQL, PostgreSQL, Redis, Elasticsearch, Carbon/Graphite, Cassandra
Web	Apache2, nginx, PHP, MySQL, Tomcat, Phusion Passenger
Revision control	Git, Subversion