

Curriculum Vitae

Personality

Name: Jeroen Nijhof
Date of birth: 3rd June 1980
Place of birth: Hilversum, the Netherlands
Place of residence: Baarn, the Netherlands
Sex: Male
Nationality: Dutch
Languages: Dutch, English
IT Experience: 17 years

Contact info

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Education / Knowledge

2015 SaltStack Certified Engineer (SSCE)
2012 Certified Scrum Master, Scrum Alliance
2011 Official Debian Maintainer, Debian
2011 LPI 304: High Availability and Virtualization, Linux Professional Institute
2011 LPI 303: Security, Linux Professional Institute
2011 LPI 302: Mixed Environment, Linux Professional Institute
2011 LPI 301: Core, Linux Professional Institute
2011 Linux Professional Institute Certified Level 2, Linux Professional Institute
2010 SGI InfiniteStorage Data Migration Facility, SGI
Result: Certificate
2009 Oracle Database 10g Performance Tuning, Oracle
Result: Certificate
2005 Performance Tuning and Troubleshooting with Dtrace, Sun Microsystems B.V.
Result: Certificate
2005 Solaris 10 for Experienced System Administrators (SA-225-S10),
Sun Microsystems B.V.
Result: Certificate
2005 Sun Cluster 3.1 Administration (ES-338), Sun Microsystems B.V.
Result: Certificate
2005 Linux Professional Institute Certified Level 1, Linux Professional Institute
Result: Certificate (LPI000091787)
2005 Custom ESD Training, Interfour B.V./Snow B.V.
Result: Certificate
2003 Red Hat Certified Engineer (RHCE), IBM.
Result: Certificate (id=808003322107181, score 96,4%)
2003 Interconnecting Cisco Network Devices (ICND), IBM.
Result: Certificate
2001 - 2002 HBO Technical Informatics, Hogeschool van Amsterdam,
Amsterdam
Result: Certificate/Title (ingenieur/ing., comparable to B Sc.)
2000 SUN StorEdge Volume Manager, Sun Microsystems B.V.
Result: Certificate
2000 SUN System Administration 1 & 2, Sun Microsystems B.V.
Result: Certificate
2000 UNIX shell programming, Capgemini
Result: Certificate
2000 UNIX networking features, Capgemini
Result: Certificate
2000 UNIX System Management, Capgemini
Result: Certificate
2000 Basic UNIX Course, Capgemini
Result: Certificate

1999 – 2001 HBO Technical Informatics, Hogeschool van Utrecht, Utrecht
Result: Propedeuse (Certificate)
1997 – 1999 MBO Technical Informatics, Dudok College, Hilversum
Result: Diploma
1993 – 1997 HAVO, A. Ronald Holst College, Hilversum
Result: Diploma

Career

2012 – now **Jeroen Nijhof – Open Source Specialist**
Function: Self-employed/Contractor as Sr. Production Engineer, Sr. System Programmer and Sr. DevOps Engineer

About the companies

Most companies I work for on contract base offers solutions in IT or Telecom like Digidentity, Ziggo, Fundeon, BosworX and current GitLab.

My activities

- Design and implement deploy platforms, let developers focus on what they do best.
- Automate infrastructure with SaltStack, Puppet or Chef. Depends on current choice otherwise SaltStack. Focus on role based deployment.
- Develop backend/infrastructure integrations with languages like python and ruby.
- Design and implement cloud frameworks like OpenNebula and use the API for deployment with DO, Azure and AWS.
- Virtualization based on KVM or containers like Docker.

2013 – 2014 **Digidentity B.V.**
Function: Sr. System Programmer/System Expert

About Digidentity B.V.

Digidentity offers solutions that enable safe digital communications between individuals, companies and governmental agencies. Digidentity developed DigiD and several other security products like eSigning and Visa Store.

My activities at Digidentity B.V.

My activities are really diverse but most of the time I'm improving the current systems and network infrastructure. It includes:

- Design and implement a deploy platform (PaaS). This platform is used by the developers so they are able to test and deploy there new applications.
- Implementing chef (configuration management) as part of our deploy platform.
- Writing several chef cookbooks
- Implementing High Availability with HA-Proxy, Pacemaker, PostgreSQL replication, MySQL replication, MongoDB replication.
- Implementing DS replication for Dogtag PKI.
- Configuring HSM's for use with our signing applications and Dogtag PKI.
- Developing and improving the vendor specific code for the HSM.
- Migrating Dogtag to EJBCA 4.0.16 due to issues with external OCSP support.

2011 – 2013 **SNOW B.V.**
Function: Sr. Consultant/Unix/Network Architect

About SNOW B.V.

Snow works for Dutch top 200 companies. Technical oriented sites like Internet Service Providers and scientific institutions are customers of Snow too. These enterprises look for no-nonsense and highly qualified assistance in managing their IT infrastructures and corporate applications. They are supported by Snow in their use and deployment of Unix, networking, security, storage and databases for mission critical purposes. Snow delivers consultancy, turn-key solutions and medium to long term outsourcing of IT expertise to fulfill the high standards.

My activities at SNOW B.V.

During my time at Snow I worked for a well known Chinese networking and telecommunications equipment and services company. I was a member of the Infrastructure team and my main function was Network Architect. My activities includes:

- Design and implement a low latency MPLS Cloud which covers whole Europe for the company NGBSS solution
- Design pre-configured building blocks for the MPLS Cloud Points of Presences with the company brand switches and firewalls
- Responsible for the connectivity between infrastructure, network, third parties and partners
- Migrating third parties from the current VPN IPSec solution to the MPLS Cloud
- Supporting application team when there are connectivity problems and solving IPSec, MPLS issues
- Implementing monitoring based on Zabbix for the application, support and infrastructure team
- Supporting the 3rd line Unix administrators with AIX, NIM, LPAR and SUSE Linux

For a bio technical company I was hired to solve a performance issue with their NFS clustered environment. After investigating and improving basic settings within their NFS clustered environment I decided to implement NFSv4. This improved not only the stability but also the IO operations.

2007 - 2011

SARA Computing & networking services

Function: Sr. System Programmer/System Expert

About SARA

As a national High Performance Computing and e-Science Support Center, and supernode in International Science Grid, SARA supports researchers with state-of-the-art integrated services, facilities and infrastructure: High Performance Computing and Networking, data storage, visualization and e-Science services.

My activities at SARA

I worked as System Expert for High Performance Computing and Visualization. My work contains mainly tuning and design of SARA Mass Storage environment (2.5 PB). SARA is one of the Tier1 sites for the EGI project at CERN (LHC). Another big project I technically lead is the SARA HPCV Cloud.

- Installing, configuring a central Nagios server setup for monitoring which replaced all the old ones. Wrote many Nagios plugins
- Installing, configuring ganglia for longtime performance monitoring
- Installing, configuring cfengine3 environments for configuration management
- Install, upgrade and configuring SGI DMF (HSM) servers for our Mass Storage environment used for DCache (EGI/LHC) and Archive
- DCache configuration and created scripts for getting the data from and to our Mass Storage Environment
- Installing, configuring XFS, CXFS, XVM
- Manage the SAN environment based on Brocade.
- Installing, configuring ACSLS environments and setup Slony replication for failover
- Managing our two StorageTek SL8500 Tape Libraries
- Designed and configured the HPCV Cloud based on OpenNebula, libvirt and KVM
- Developed the OpenNebula Management Console
- Developed Central Authentication Manager (CAM) which can be used for local UNIX account centralization. Very handy if you need to change on regular base root passwords

The first 2,5 years I worked as a Sr. System Programmer for the ICT Services team. I worked on several projects and delivered 3rd line UNIX and Oracle support.

- Installing, configuring LPAR's for IBM p5 systems
- Installing, configuring the NIM environment for AIX 5.3
- Upgrade AIX 5.2 to 5.3
- Installing, configuring Oracle 9 and 10 databases
- On regular base maintain the Oracle databases including upgrades and tuning.

- Tuning by several methods like SQL explain plan and stats pack.
- Installing, configuring two large Sun Ray environments which were used by E-Boat for all elementary schools at Almere and SARA. Sun Ray is a thin-client concept from Oracle (Sun Microsystems).
- Developed a proxy application named N2H2p in C for a SARA client to translate ASA urlserver requests to a normal proxy server.
- Designing, configuring several server and network HA environments for clients based on Linux and Cisco. Includes setup and configuring LVS environments and Cisco ASA/PIX firewall setups.
- Installing, configuring MySQL clusters based on LVS and DRDB.
- Installing, configuring PostgreSQL multi master clusters based on LVS and PGPool-II
- For a large library in the Netherlands I designed and setup a scalable web cluster based on Apache2, Jetty, Solr and PostgreSQL with Slony replication. After lots of Apache2, Solr and PostgreSQL tuning this environment can handle up to 8000 concurrent users with a < 10ms search response.
- Developed a PAM module libpam-tacplus and used it for setting up a central authentication service for SARA which works for all network and UNIX server environments. The TACACS+ server uses RSA authentication and therefore it was possible to authenticate network and server systems to RSA via TACAS+
- Installing, configuring Nagios servers for monitoring. Wrote many Nagios plugins
- Installing, configuring Cacti servers for longtime performance monitoring
- Installing, configuring cfengine2 environments for configuration management
- Wrote multiple patches for all kind of open source projects SARA used i.e. Poweradmin

2004 – 2007

SNOW B.V.

Function: Consultant/Unix engineer

About SNOW B.V.

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My activities at SNOW B.V.

During my time at Snow I worked for a client which is one of the largest financial companies in the World located in Amsterdam. I was a member of the Sun Solaris team together with 24 colleagues. I worked on several projects and delivered 3rd line Sun support.

- Jumpstart Solaris servers with JET including WAN Boot.
- Configuring IPMP
- Solaris patching with TLP
- Installing and configuring Tivoli Monitoring (TEC)
- Setup HBA's for SAN with EMC PowerPath.
- Used Solstice DiskSuite and Veritas Volume Manager to manage the local and SAN storage devices.
- Compiled several open source applications and put them in a Solaris package for better maintaining and roll out.
- Wrote a lot of shell, perl and python scripts for daily UNIX maintenance tasks but most of all monitor scripts to enhance our Tivoli Monitoring environment. Also wrote a mailer application for Solaris that made mailing possible to the internal MS. Exchange servers. For version control I used CVS and Subversion depending on the project.
- Setup Sun Cluster 3.1 and wrote my own data services.
- Dynamic Reconfiguration for E8600, E15K and E25K.
- Supported our AIX team with configuring LPAR's
- Installing, configuring Oracle 10 databases.
- Installing and configuring TFS BoKS (Central Authentication Manager)
- NISPlus to LDAP migration.

2004

Produce-IT

Function: System/Network/Software engineer

About Produce-IT

Produce-IT is an IT company that offers technology services like system/network administration, software development and web design/hosting.

My activities at Produce-IT

Most of my work contains Windows, network and software development activities. I was responsible for all network and system administration activities. I designed, setup and maintained most network domains which consist of Windows 2000 / 2003 servers and Windows 2000/XP clients. For website costumers I designed and build a CMS based on php and MySQL. Database setups and maintenance was also a daily job. I used open source applications for web design and databases like MySQL, PostgreSQL but also closed applications like Oracle and Microsoft SQL. For monitoring our costumers servers, I setup a Debian Linux system with BigBrother Monitoring Tool, and write my own BigBrother clients for windows.

2000 - 2004

Cap Gemini Ernst & Young

Function: Consultant/UNIX engineer

About Cap Gemini Ernst & Young

Cap Gemini Ernst & Young is a well known IT company that offers consultancy, technology and outsourcing services. This company is in more than thirty countries active and helps other company's with business strategies and high technology possibilities. Cap Gemini Ernst & Young counts worldwide 53.000 employees and realized in 2002 a turnover of 7,05 milliard Euro. I started as an intern for my B Sc. in Technical Informatics in 2000. Since august 2002 I am hired as a Technical Consultant/Infra Engineer.

My activities at Cap Gemini Ernst & Young

Most of my work contains UNIX/Linux and Network activities.

CGEY has a lot of customers which have UNIX environments with SAN and HA solutions.

- Setup and maintain Solaris, HP-UX and GNU Linux servers.
- Kernel / performance tuning.
- Customize GNU Linux kernel. (patching / compiling)
- System administration & support by phone and e-mail.
- Enterprise backup solutions with Legato Networker.
- Troubleshooting and monitoring.
- Implementing SAN solutions with EMC Symmetrix.
- Implementing HA solutions
- Raid: LVM, Raidtools2, Veritas Volume Manager and DiskSuite.
- Clustering: LVS, SUN cluster and MC Service Guard.
- Network: Bonding, APA
- Creating development environments with jboss, tomcat and apache for j2ee web applications.
- Develop patches for many open source applications to function or compile clean.
- Install and configuring of many server applications which are listed at Skills.
- Security audits.
- Documentation.

Skills

Operating systems:

- GNU/Linux (Expert level: Ubuntu, Debian, RedHat and SUSE) my preferred distributions are Ubuntu LTS and RedHat Enterprise Linux for server and Ubuntu for workstation.
- Solaris 5.6, 7, 8, 9, 10 (Expert level)
- AIX 5.1, 5.3 (Expert level)
- HPUX 11i (Moderate level)
- Windows 2000/2003/XP (Moderate level)

Networking:

- Cisco IOS (Routers, Switches) / ASA Firewalls / NetASQ / Huawei Eudemon / Huawei Quidway
- Routing / Screening techniques (iptables/ip6tables) / Dial Up / VPN (PPTP, IPSEC) / VLAN / QinQ / Bridging / Routing Protocols / IP VPN (MPLS) / STP / VRRP / BGP / IPv6

Programming:

- Python / Ruby / PHP / C / Java / Shell scripting / SQL (Expert level)
- C++ / Perl (Moderate level)

Database Administration:

- MySQL / PostgreSQL / MongoDB (Expert level)
- Oracle 9 / 10 / 11 (Moderate level)

Server Applications (expert level):

- ACSLS / Amavis / Apache / Bind / Cacti / Cfengine2, 3 / CheckMK / CUPS / CVS / CXFS / DHCP / DMF / Exim / Ganglia / Git / Iptables / Ip6tables / Jboss / Jetty / Nagios / NFS / NIM / NIS / NISPlus / KVM / Libvirt / LVM / MediaWiki / Openssh / Openldap / OpenNebula / OpenVAS / PAM / Postfix / PowerDNS / PPPD / PPTPD / Raidtools2 / Samba / Sendmail / SNMP / Spamassassin / Squid / Squidguard / Subversion / Trac / Tomcat / Vsftpd / Zabbix / etc.

Linux/Unix based Workstation applications / environments (expert level):

- CDE / Gnome / Evolution / KDE / LibreOffice / WindowMaker / Xfree86 / Xorg / etc.

Hobbies

Beside the professional activities I like to spend my time in new open source developments, embedded systems, security aspects and astrophysics.

I'm also active as Debian Maintainer and developer in open source projects yubipam, libpam-tacplus, libpam-script and openufp.

Next to this I run a local CoderDojo <https://coderdojo-baarn.nl> where we teach kids programming.