Patrik Martinsson - Curriculum Vitae

Personal Information

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Who am I ?

I'm a 32-year old Linux System Administrator from Norrköping. I'm a Linux-enthusiast, active in the community with various bug reports, patches etc., and am eager to learn new things and can adept very quickly to various kinds of situations.

Quick summary with skill level

- GNU tools, advanced.
- Anaconda, kickstart, pxe, advanced.
- Linux Server (Red Hat Enterprise 6 Server), advanced.
- Linux Desktop (Red Hat Enterprise 6 Client), advanced.
- Pkcs11/Smart Card, advanced.
- LDAP / AD – integration, advanced.
- Keepalived / Corosync, advanced.
- Bash scripting, advanced.
- Rpm packaging, advanced.
- Puppet, foreman, advanced.
- Perl / Regular expressions, advanced.
- C / C++, I know my way around.

Current Employer

SMHI – Linux System Administrator **2008 –**

My 'day-to-day'-tasks consists of managing ~700-800 Red Hat Enterprise servers and ~150 Red Hat Enterprise clients. Usually it involves making sure everything is up running and that the setups are consistent. This is essentially done by puppet and various automation-scripts (preferable in bash/perl). I've done a lot of scripting (mostly in perl) to various parts of our infrastructure, this includes Cisco UCS, VMware, Infoblox, ILO, Foreman, Puppet, Monitor (which essentially is Nagios on steroids), Cacti, Various CA technologies products, etc.. As previously mentioned, my job often consists of setting up, configuring, reconfiguring, purging servers, so scripting is quite essential.

I've been a key-player in SMHI's attempt to standardise a Linux Client Platform for its employees. The project goal was to make sure that every Linux Client would be centrally managed and properly configured to SMHI's infrastructure, that includes,

- Authentication (Active Directory / Kerberos / Smart Card, pkcs11, pkinit / VPN, Cisco Anyconnect + Smart Card),
- Mail (Exchange 2010),
- File shares (NFSv3/4 + Kerberos authentication),
- Wireless 802.1x (Certificate enrolment through SCEP),
- Fully automated installations / re-installations.

The project has been very successful and consists of roughly 150 users today. Support and documentation is mostly handled trough a local mediawiki-instance, but we also offer support from our CA ServiceDesk system (in form of incidents/request to be "ITIL-compliant"). As we wanted our developers to be able to develop products on their Clients and then seamlessly deploy them into production (Servers) the choice of Linux distribution for the Clients became the same as for the Servers, Red Hat Enterprise 6.x. Much of the configuration between Servers and Client are shared.

On behalf of the SIDA-organisation I've been visiting the "Department of Meteorological Services" in Botswana two times, and will most likely visit them a third. My work there has mostly consisted of deploying Linux Servers and setting up a "Request Tracker" - system and a wiki. The Biggest challenges with these missions has been the lack of infrastructure, internet access and the fact that everything has to be done while being there, no remote work has been possible.

Education

Separate University Courses **2009 – 2010**

- Linux as a developing platform, 1 semester (7.5p), Umeå university
- Structured development with C++, 1 semester (7.5p), Linnéuniversity.

Two Year Linux System Administration Degree – Jensen Education, Sweden **2007 – 2009**

Some of the courses followed by a short description,

- Database Administration (SQL, relational database theory, database modelling, normalization, troubleshooting, monitoring).
- Network and computer communication (inetd, xinetd, postfix, bind, apache, nfs, ldap, pam).
- The Operation System Linux (General GNU-tools, file system, file permissions, filter, pipes, regular expressions, vi).
- Programming in Linux (Compiling, shell-programming, perl basics).
- System Administration Linux/Unix (User management, logging, backup, kernel modules, virtualization, storage solutions).
- Web Server Administration (Virtual Hosts, Server Side Includes, CGI-scripts, SSL, Logging).