

Linux and network

Since 2008

Linux (Ubuntu / Debian) and network are my two focus areas where I spend the vast majority of my time and efforts because they are tied so heavily together, in this area I work on everything from small in-house NFS systems to critical production HA / security core systems.

I work well within complex infrastructures often foreseeing consequences in one area due to changes in another by keeping a “bird's eye” view on the infrastructure through experience and detailed documentation that is either available from the get go or created myself.

Scripting and programming

Since 2010

I am frequently asked why I invest so much time into scripting and programming, where I also haven't met another SYSADM at my own level of skill in this area.

Through scripting and programming I have learned a lot about how processes are created, executed and destroyed which in turn gives me a better understanding of the software aspect of the operating system to better securing security, stability and optimization.

I believe in automating everyday tasks or services that can include but are not confined to:

- Backup
- Encryption / Compression
- User / service administration
- Tunnel creation and destruction
- Deployment

This frees up time for myself and colleagues and creates everyday structure and consistency that leads to less error prone recursive tasks.

Data crunching and monitoring

We generate a lot of data that needs to be handled either to serve a client, examine for security purposes, process through another service such as ElasticSearch, use for monitoring or something else.

Without having scripting / programming skills this would quickly become an enormous task, to satisfy this need I use

- Bash
- AWK
- Java
- Sed
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Visual presentation

Through scripting / programming I frequently create diagrams for data visualization and statistics to foresee bottlenecks, security issues within the infrastructure.

I use these tools to help me in my decision making for structuring my upcoming tasks and prioritization.

Scripting

- HTML
- CSS
- JS

Programming

- Java
- JSP
- SQL

Technical skill tree

- **OS**
 - Ubuntu
 - Debian
 - ZFS
 - EXT
 - Link bonding
- **Network**
 - VSLM
 - VLAN
 - TCP/IP
 - IPv4
 - IPv6
 - High availability
 - Cisco
 - IGP
- **Web servers**
 - Apache
 - Nginx
 - Tomcat
- **Security**
 - Iptables
 - Shorewall
 - Fail2Ban
 - VPN
 - SSH
 - IDS
 - IPS
- Encryption
- **Monitoring**
 - Nagios
 - Zabbix
- **Programming**
 - Java
 - JSP
- **Scripting**
 - HTML
 - CSS
 - JS
 - Bash
 - Sed
 - Awk
- **Misalanious**
 - Raid
 - DHCP
 - Bind9
 - NAT
 - PAT
 - Postfix
 - MySQL
 - Backup
 - NFS
 - SAMBA
 - SSHFS
 - XenServer

- Virtualization