

KRISTOFFER DAVID KNIGGA

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Technical Exposure

Hardware: HP ProLiant, 9000, and Integrity servers; HP BladeSystem; IBM RS6000/System p/Power servers; Dell servers and disk enclosures; white box/custom servers and workstations; Solarflare, Myricom, and Chelsio 10 Gbps NICs; EMC CLARiiON CX and Symmetrix DMX and VMAX arrays; HP VA and EVA arrays; HP Nike and MSA disk enclosures; HP, Quantum, and Sony tape libraries; Emulex and Qlogic FC HBAs; HP and Cisco managed switches; Cisco routers and PIX firewalls; Cisco Fibre Channel switches; Cielo SkyLink CG/CGX radios and Mercury repeaters

Operating Systems: Red Hat Enterprise Linux (and clones) 3 - 7; Fedora 4 - 19; HP-UX 11.0, 11.11, 11.23, and 11.31; AIX 5L and V6; Solaris 9 and 10; VMware ESX 4; Microsoft NT 4, 2000, XP, Server 2003, and Server 2008

Applications: PTPv2/IEEE 1588-2008; Puppet; Foreman; Solarflare OpenOnload; Red Hat Satellite/Spacewalk, Kickstart, and Cluster Suite; HP Serviceguard, Integrity Virtual Machines, Ignite-UX, MirrorDisk-UX, DRD, SD-UX, Data Protector, OpenView, and Systems Insight Manager; VERITAS Storage Foundation (VxVM and VxFS), Cluster Server, NetBackup, and Backup Exec; Zabbix; EMC Powerpath, Solutions Enabler, Time Finder, Navicli, and SnapView; Oracle Database 8, 9, 10, and 11; BigBrother; Commvault Galaxy; Intersystems Cache; Kerberos 5; LDAP; DHCP; BIND; Sendmail; Apache; MySQL; Samba; NFS; Microsoft Exchange, IIS, SQL Server, and Active Directory; BittWorks II Toolkit

Programming / Scripting: POSIX shell, awk, sed, python, PHP, SQL

Experience

Linux Administrator

Chopper Trading Chicago, IL June 2012 – January 2015
Managed hundreds of Linux servers in a latency-sensitive high frequency trading environment across dozens of geographic locations

- Implemented Active Directory authentication on Linux machines using pure krb5 and ldap
- Developed, tested, and implemented sub-millisecond time synchronization across geographically-distant data centers
- Revived long-neglected Puppet deployment and implemented numerous changes to improve stability and functionality
- Implemented iPXE and Syslinux/PXELINUX solution to improve remote hardware deployment
- Tuned Linux for low application and network latency
- Taught end-users and junior administrators “how to fish” when possible thereby reducing support requests and escalations

UNIX Contractor

Confidential Chicago-area, IL May 2011 – May 2012
Provided UNIX and storage consulting, administration, and engineering services on a contract basis.

- Managed highly visible and critical projects, including liaising with key management stakeholders
- Extended Red Hat Cluster Suite ipmilan fence agent to support IPMI privilege levels
- Developed procedures for RHEL server build-out including custom scripting to provide automation
- Wrote application to track backup tape usage to reduce backup failures due to overused media
- Trained and mentored other administrators and operators on new technology and procedures
- Designed and implemented strategies for downtimeless database backups
- Designed highly available, load-balanced print cluster to manage 1000+ printers and serve dozens of print clients running SAP

Systems Administrator

Fidelity National Information Services Chicago, IL December 2008 – May 2011
Primary administrator in charge of UNIX servers for a Fortune Global 500 client. Secondary administrator for a dozen other clients. Coordinated technology delivery teams to provide solutions and support. Implemented technology and process improvements to improve administrator efficiency.

