BENJAMIN A. ROSE

Personal Website/Weblog: https://allmybase.com/

References available upon request.

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Education

Stevens Institute of Technology, Hoboken NJ: Bachelor of Science in Computer Science. Graduated in December of 2010.

Certifications

RHCSA, RHCE.

Related Skills

Systems & Daemons

Linux (most distros), Sun Solaris, Windows (all versions), MySQL/MariaDB, Beowulf clusters, High Availability (heartbeat) clusters, corosync/pacemaker, failover systems, OpenMPI, Sun GridEngine, Cisco IOS, FreeBSD, NetBSD, Kerberos, LDAP/FreeIPA, NIS, Linux tc, kickstart, apache, lighttpd, nginx, varnish, postfix, exim, AccessMatrix, puppet, nagios, libvirt, KVM, IBM z/OS & x3270 terminals, Android & ARM devices, Enterprise VMWare, CAS, Torque, Maui, SLURM, mock.

Security

Nmap, iptables, SELinux, nessus, metasploit, PGP/GNUpg, tripwire, system vulnerability assessment, data forensics, WiFi & Bluetooth auditing, kismet, libpcap, wireshark, TCP/IP packets, Ethernet-level packet forging, IPv4, IPv6, ARP, DNS, SQL Injection, XSS, Snort, Sguil, PADS, SanCP, [D][R]DoS mitigation, CheckPoint firewalls, SpamAssassin, aircrack-ng.

Software Development

C, C++, Python, Java, PHP, R, JavaScript, TCL, CSS, Perl, MySQL, Redcode, Intel 8086 assembly, Motorola 68000 assembly, shell scripting (bash), regular expressions, gdb, strace, hex editors, packet generation (IPv4 & IPv6), kernel-level modules and patches, cross-compiling, RPMs, WordPress, Drupal (drush).

Relevant Work Experience

Princeton University

Network & Systems Administrator, Computer Science Dep't, October 2011 – July 2013, Princeton NJ.
- Rebuilt infrastructure from ground up with puppet and RPM-based Linux.
- Replaced existing Rocks-based cluster with custom torque/maui cluster build.
- Responsible for new department services: CAS, svn, git, mock, puppet, monitoring.
- Interacted with clients regularly via RT ticketing system and in person.
- Revamped services: MySQL+tungsten, apache, LDAP, CUPS, FTP, RT, VPN, Linux Lab.

Systems Manager, Mathematics, PACM, and Annals, July 2013 – Present, Princeton NJ.
- Responsible for all department IT needs, from ordering to provisioning to surplussing.
- Managed multiple directly-reporting employees in an efficient manner.
- Worked with managers from other departments on collaborative goals regularly.
- Packaged software for faculty, staff, and students for Springdale Linux (RHEL clone).
- Upgraded core and VM infrastructure to 100-gigabit.
- Transitioned systems through Springdale 7, 8, and 9 OS upgrades with minimal downtime.
- Managed hardware for Springdale build systems, negotiated PO's with other departments.
- Relocated hardware to a new data center with zero unannounced downtime.

Institute for Advanced Study

Network Security Intern, Summer 2009 – December 2010, Princeton NJ
Junior Network/Security Administrator, January 2011 – October 2011, Princeton NJ
- Deployed a state-of-the-art sguil/snort network intrusion detection system.
- Set up fully-redundant nagios servers for network monitoring, solutions published.
- Deployed versioning configuration management system (puppet + subversion).
- Performed penetration testing.
- Worked with faculty/staff to educate on the importance of good security practices.

Stevens Institute of Technology – Scientific and Research Computing IT

Assistant Systems Engineer, Fall 2007 – Spring 2009, Hoboken NJ
- Designed, built, and supported a Linux infrastructure at Stevens.
- Planned and implemented a hybrid grid/high-availability cluster.
- Performed basic administration tasks, user management, system permissions, machine deployment, and hardware/software troubleshooting.

Awards & Organizations

- Boy Scouts of America – Eagle Scout.
- LOPSA PICC – Taught 4 hour training class on puppet configuration management system.
- Future Business Leaders of America – Cybersecurity event - 1st in NJ.
- American Legion Jersey Boys' State – Volunteer technology staff.
- Springdale Linux – Contributor, physical hardware maintainer.
- Lawrence Road Fire Company – Volunteer firefighter. (HazMat Ops, ICS/NIMS, CPR certs).
- Information Technology Disaster Resource Center (ITDRC) - Operations volunteer.