David Alexander Ranch

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Accomplishments:

- Demonstrated the fastest, most scalable networks to the most demanding customers in the world
- Author of multiple popular Linux books and documents
- Sole administrator of four Internet domains and several 100+ user Linux servers

Security and Authoring Experience:

- Co-author of the "*Securing Linux*" book from SANS Institute
- Author and maintainer of the Linux "*TrinityOS*" security and performance documentation
- Author and maintainer of the Linux "*IP Masquerade HOWTO*"
- Contributor to the French O'Reilly and Associates "*IPv6; Theory and Practice*" book

Operating System Experience:

- **Linux 2.4/2.2/2.0** (RH/MDK/SuSe/Slackware)
- FreeBSD 4.x ♦ Sun Solaris v2.x ♦ Microsoft Windows 9x/NT/2000 ♦ HP-UX 9/10.x

Networking / UNIX / Security Experience:

- BGP, ISIS, OSPF v2/3, RIP, RIPng, EIGRP, MSDP, PIM, DVMRP, IGMP

- SONET, ATM, Ethernet (F/GE, 10GE), T1/T3, Frame Relay, PPP, ISDN, DSL, a. modems ♦ MPLS (RSVP, LDP), 2547bis L3VPNs, Martini and Kompella L2VPNs, IPv4, IPv6, IPSEC, GRE, PPTP, L2TP, PPPoE

- **Juniper Networks** M (5/10/20/40/160), T (320/640), and G-series ♦ **Cisco** 2/3/5/7x00 and 12x00 (GSR)
- **Cisco** Catalyst 5/6/760x switches ♦ **Extreme** Summit and BlackDiamond switches ♦ **Foundry** Net/BigIron

- *UNIX expertise:* ♦ OS hardening ♦ kernel compiling ♦ *ch.*r.DNS ♦ SSH ♦ DHCP ♦ Samba ♦ NFS ♦ Sendmail ♦ NAT (1:1 and Masquerade) ♦ IPTABLES / IPCHAINS ♦ IPSEC ♦ NTP ♦ LPR / CUPS ♦ RAID 0/1/3/5 ♦ PCMCIA ♦ PPP ♦ PPTP ♦ OpenOffice

- **Security Dynamics** SecurID and Axent Defender token authentication ♦ Livingston, Shiva, Merit, and USR RADIUS ♦ Cisco Secure TACACS/RADIUS ♦ Cisco TACACS+ server

- Netscreen 5/100 firewalls ♦ CheckPoint / Nokia Firewall-1 firewalls and VPNs

- Agilent RouterTester (SONET/GE) ♦ Adtech AX4000 (SONET/GE) ♦ Smartbits 6000 (SONET/GE) ♦ Ixia 1600 (FE/GE)

- Shiva AccessSwitches ♦ Lucent Portmasters ♦ Ascend MAX ♦ Gandalf Xpressway ♦ ISDN T/As

Programming Experience:

- ♦ Borne, Ksh, Bash shell scripting ♦ Perl scripting ♦ Borland and GNU C/C++ ♦ Intel and Motorola Assembly

Education and Certifications:

- BS in Computer Engineering, California State University, Chico : May, 1996
- **Juniper Networks JNCIS**; September, 2002
- Near completion of the **Juniper JNCIE and Cisco CCIE** certifications

Employment:

Proof of Concept (POCLab) Lead Engineer: Juniper Networks (September 99' to Present)

Demonstrate the most powerful core, access, and edge routers to the most demanding networking customers in the world. Customers include UUNet, France Telecom, Level3, UCAID, etc. Common tasks include the creation and configuration of large heterogeneous IP and MPLS networks involving almost every aspect of modern networking. Also responsible for all POCLab infrastructure (Linux servers [DHCP/SMB/FTP/NFS], Windows workstations, etc.

Consultant: International Network Services (INS) / Lucent (June 96' to Aug 99')

Completed major router, switching, and remote access (RAS) installations. Lead projects such as corporate wide network deployments, TCP/IP re-addressing, and routing protocol conversion for clients such as Kaiser Permanente, Visa International, Bank of America, Cisco Corporation, E*trade, Federal Home Loan Bank, Encanto Networks, and HMSA

Networking Engineer : Computing Services, CSU Chico (February 95' to June 96')

Completed city wide ISDN and cablemodem network developments and on-going administration. Directly involved in DS3 microwave and DS1 spread spectrum wireless data connectivity projects.

Operations Support : Syntex Corporation (May-Aug 93', Dec-Jan 94', May-Aug 94')

Maintained and supported several hundred productional networked computers of various different platforms and operating systems running both TCP/IP and DECNet

Collegiate Sales Representative : IBM International Corporation (Aug 90'-Jan 93')

PS/2 computer sales and technical support representative for the CSU, Chico campus.

Research and Development : Orchid Technology Corporation (May 90'-Sept 90')

Worked with other engineers to test and evaluate new developing video application products

References:

Available upon request