Jordan Schwartz
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PROFESSIONAL SUMMARY:

Over 8 years of UNIX systems administration with specialization in backup and recovery, storage, database, and Hierarchical Storage Management projects including:

- Extensive UNIX administration (Solaris, SunOS, HP-UX, Linux, ConvexOS).
- Served as Subject Matter Expert for Collective Technologies Backup and Recovery Practice.
- Installation, Configuration and Operation of Enterprise Class Backup Servers and Tape Libraries using dedicated Gigabit backup network.
- Development of Perl shell scripts to perform DR and Networker Backup of Network Appliance Filers.
- Configuration, and Adminstration of Network Attached Storage, and Host Attach Fiber Channel Storage.
- Operation, High Level Troubleshooting of HSM systems.
- Managed Compute Farm using dedicated Gigabit network.
- Windows NT administration.
- Worked on various Classified Projects

SOFTWARE/ HARDWARE:

Sun Solaris 2.X, DataOnTap 6.X, SunOS 4.X, HP/UX 10.X/11.X, ConvexOS, Red Hat Linux, Window NT, Windows Terminal Server, Windows 98, PERL, Bourne Shell, C Shell, Oracle, Ingres, SQL, FileServ, Volserv, Veritas Volume Manager, Veritas Filesystem, Veritas Volume Administrator, Legato Networker, HTML, Apache, X-Windows, Netmanage ViewNow, Sun PC-NFS, MS Visual Source Safe, Sun E450, Sun E420R, Sun E220R, Sun Ultra 60/10/5/2, Network Appliance F840/F760, Auspex NS/2000, HP 9000, HP 735, Compaq Proliant, Sun StorEdge A5100/A1000/D1000, FC-100 FC-AL HBAs, Winchester Flashdisk RAID Arrays, Antares SCSI Controllers

EDUCATION:

Diploma in Operations and Management from the Computer Learning Center

Over 100 Units completed toward Bachelors Degree at Santa Monica College

TECHNICAL TRAINING:

Network Appliance Hardware Configuration and DataOnTap Installation and Administration, Network Appliance Systems Engineers
Oracle Application Programming, Santa Monica College
Advanced Topics in Perl, LISA Tutorial
XML for Developers, UCLA Extension
Java Programming, Santa Monica College
Visual Basic Programming, Santa Monica College

Topics in System Administration and Building Internet Firewalls, USENIX Tutorial
Implementing Windows NT Server/Workstation, QuickStart Technologies
Solaris 1.x to 2.x System Administration, Sun Educational Services
C++ Programming, Santa Monica College, (14 weeks) Spring 1994
Assembly Language Programming, Santa Monica College
SunOS 4.1.3 Systems Administration, Sun Educational Services
Introduction to the X Window System, UCLA Extension
Unix Environment for Programmers, UCLA Extension
Theory of Operations, Systems Installation Maintenance, Repair, and Troubleshooting, Epoch Systems
C programming, Santa Monica College

PUBLICATIONS:

"Moving Large Filesystems On-Line, Including Exiting H.S.M. Systems", presented at LISA 1999, co-authored with Vincent Cordrey and Doug Freyburger

EXPERIENCE:

September 1998 to January 2002

Collective Technologies
Santa Monica, CA
Systems Management Consultant

Performed the following internal contributions to Collective Technologies aside from contract related work at Boeing Satellite Systems.

Served as Subject Matter Expert for the Backup Recovery Practice including Development Manager for the Backup and Recovery System Performance Audit, and Administrator for the practice webspace and initial document repository.

Formed with a small team of consultants the Consultant Sales Initiative to formalize a consultant's role in supporting the sales team.

Boeing Satellite Systems, formerly Hughes Space and Communications
Information Services UNIX Engineering Applications Project Team
El Segundo, CA
Systems Engineer

Performed various projects for the UNIX Engineering Applications Project Team including projects related to the deployment of 4 Network Appliance F840 Filers and implementing Disaster Recovery for the Analysis Systems. Each project was implemented with respect to the IS Systems Development Process with presentations to the customer and IS via the Engineering Systems Technical Change Review Board.

The Network Appliance deployment project related work consisted of the development, testing, implementation and training of perl scripts and modules to run under Legato Networker on an Enterprise Class Backup Server that when given the filer host name and specific volume pair would contact the filer, determine the SnapMirror target filer and volume, perform a local snapshot, update the mirror, contact the source filer to obtain a list of top level directory quotas (qtrees), and then mount the snapshot of each qtree from the mirror filer via NFS to the backup server, and finally run the Networker save command with modified command line options to perform the backup over a dedicated Campus Wide Gigabit Network.

Additional Network Appliance implementation work consisted of general NetApp implementation issues including filer configuration, network configuration and routing, primary and SnapMirror volume configuration, implementing revision control of system files, transition and support of pilot users, documentation of operational procedures and troubleshooting.

The Disaster Recovery Implementation for the Analysis Systems consisted of upgrading the primary Analysis Fileserver a Sun E450 with two Sun StorEdge A5100 FC-AL Disk Arrays to a Sun E420R with a dual channels SCSI attached Winchester Flashdisk Raid Array. System software included Solaris 2.6,Veritas Filesystem, Veritas Volume Manager which was configured to use dynamic multi-pathing to the system disks and Winchester RAID Array. Detailed build notes were created, and over 170GB of user data was transitioned. A similar configured DR replication system in another building on campus, and a design was presented to perform asynchronous replication of the data residing on the Winchester RAID Array. Additional work consisted of upgrading the Analysis Login from an Ultra 5 to a Sun 220R, and moving three of the compute nodes to another building attached to the campus wide private data network.

Additional activities performed for the UEA Project Team and the IS UNIX Group consisted of High Level Support for the Enterprise Backup Team, and general support and troubleshooting for the Project Team and UNIX Group as needed. Weekly status reports were sent to BSS Team Leads and Client Managers, as well as Collective Management and Sales personnel.

Boeing Satellite Systems, formerly Hughes Space and Communications
MEA Analysis Business Unit
El Segundo, CA
Systems Administrator

Managed the Analysis UNIX servers including Sun E450, E220R, Ultra 60/10/5, Convex 3240. Managed the ADIC Fileserv/Volserv Hierarchical Storage Management Software installed on the Convex to

Access and backup data staged to Metrum VHS Tape Drive in an ADIC Grau AML/e Media Library. Managed the HP 735 Meta-Node and the Load Sharing Facility (LSF) software that handled batch submission of Compute Intensive analysis jobs including MSC Nastran. Managed backup and recovery operations of Sun Servers via Legato Networker 5.X system with Exabyte 8500 series tape drives and tape libraries.

Worked with a team to design and execute an upgrade for the analysis systems including installation, configuration and operation of a Sun E450 Backup Server Running Legato Networker 5.5 including the Silo Module, and IBM DAS software to access the 10 DLT 7000 tape drives installed in the ADIC Grau AML/e via TCP/IP. Performed evaluation testing of Alteon and Cisco Gigabit switches and configuration of hosts on the new private data network. Designed and configured a Solaris based Sun Ultra 2 HSM server with a Sun Storedge D1000 Array, installed Veritas Filesystem with DMAPI support, performed the base installation of the Fileserv/Volserv and Ingres. Assisted the ADIC SE with the transition of the Fileserv/Volserv HSM data from the Convex. Assisted with the development and the execution of the relocation of Convex data to an Auspex 7000/800. Assisted in the design, configuration, and implementation of the Analysis Fileserver, a Sun E450, with two Sun Storedge A5100 FC-AL attached arrays and gigabit connectivty to the private network. Assisted in the design, configuration, and implementation of the Analysis Login (LSF) Server and 6 Ultra 60 compute nodes. Supervised the installation and configuration of a Sun Sparc 20 running RedHat 6.2 to run a port of Convex Restore to retrieve files from Convex dump tapes via SCSI attached Metrum tape drives.

Managed the Analysis Servers after the upgrade including backup and recovery operations, troubleshooting compute node job submission and performance issues, Visual Source Safe Database Administration including, account creation, periodic database maintenance, and end user troubleshooting. Performed troubleshooting of UNIX/NT connectivity issues between the Analysis UNIX servers and 300 Windows NT based Analysis Workstations run SUN PC-NFS and Netmanage ViewNow.

Developed perl scripts and procedures to perform Networker backups of two Auspex NS2000 Network Attached Storage Systems containing over 1TB of data. The script ran snapshots of the filesystems and then ran backups via NFS over the dedicated gigabit backup network, segregating the backup meta data for each Auspex into a unique index based on a virtual interface.

Worked with a team to move the Analysis Servers to a temporary server room, and then to relocate the server after expansion work was performed on the original server room.

Managed the transition of the support of the Analysis Servers to the Infrastructure Unix Group including training the Analysis Point of Contact, tracking transition task and dependencies in Microsoft Project, setting meeting agendas, and documenting meeting minutes.

May 1993
to August 1998

RAND
Santa Monica, CA
Systems Administrator

Responsible for administering 150 Sun sever and client systems running SunOS 4.1.3 and Solaris 2.5.1 and 2.6 as well as 18 Micron Pentium Personal Computers running Windows NT Server 4.0. Performed daily system administration duties, assisting users, and extensive troubleshooting. Built and configured server and client systems, installed application software as well as systems and networking software.

In charge of the backup and recovery systems including Sun Microsystems Backup Copilot which
is used on the SunOS 4.1.3 systems, and Legato Networker used to backup the Solaris 2.X, Windows NT and Windows 95 systems. Wrote various PERL scripts to process dumplogs, run special cold backups of the Oracle database systems, and verify server configurations.

Responsible for assisting Oracle DBA with Oracle database administration tasks such as installing Oracle 7.3.3.5, writing PERL scripts to manage archive logs, troubleshooting backup and restore problems with respect to the Oracle databases.

Performed various network administration tasks such as configuring various Network switching devices including Grand Junction 2800 series fast ethernet switches, Chipcom hubs, and Bay Network 10BaseT hubs. Wrote PERL scripts to report on the network status such as reporting on Appletalk and DHCP hosts not listed in our network maps, and scripts that list the hosts connected to the network switches.
Responsible for maintaining the Sunsoft Sun Net Manager software which is used to gather performance data form various network devices, and report on network events.

April 1989
to June 1993

RAND
Santa Monica, CA
Senior Computer Operator

Responsible for running and verifying backup on the IBM 4381 Mainframe, Sun fileserver and workstation, and the Epoch Hierarchical Storage Management fileservers. Serviced tape, cartridge and optical disk mounts , scheduled and maintained print jobs on the various printers in the computer center.. Performed monitoring , reporting and

troubleshooting of system, network, application and hardware problems. Additionally wrote and documented scripts and programs to aid Operations.