

# MATTHEW H. MATTOON

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## INFRASTRUCTURE ARCHITECT

Security-conscious Infrastructure Architect with ten years of networking experience providing successful implementation solutions supporting corporate requirements. Highly motivated, detail oriented individual that approaches every task with creativity and energy to complete each task efficiently. Possesses excellent leadership, interpersonal communication, and documentation skills which is readily apparent in work product.

- Experienced with the design and implementation of a layered disaster recovery plan, including mirroring over multiple servers, cluster servers, point-in-time backups, snapshot technologies, co-location, and documentation of all processes.
- Expert-level knowledge of Active Directory in small and large environments including:
  - Design and administration of security
  - Group policies
  - Replication topologies
  - Disaster recovery and backup strategies
  - Deployment and migration
- Experienced with all aspects of large scale projects from planning to design to implementation to monitoring.
- Familiar with budgetary planning, proven capability in projecting costs of projects annually and quarterly.
- Maintained an organization with multiple sites in many different countries.
- Extremely motivated early adopter of enterprise technologies. Leads to significant insight into emerging and existing technologies.
  - Early user of Solaris 11 Express for storage solutions.
  - Beta tester for pfSense (FreeBSD based firewall solution).
- Harnessed Virtualization technologies to meet business needs for growth, consolidation, and increased efficiency.
- Security-minded, proficient in design and use of Access Control Lists, Auditing, and Rights Restriction, using the principle of least privilege.
- Experienced in the assessment and development of complete firewall rule sets, for specific organizational needs.
- Skilled in the implementation, administration, and troubleshooting of DNS, DHCP, and WINS on Windows and UNIX.
- Experienced with the management of technical individuals, providing the company with highly productive and extremely flexible team.
  - Possesses ability to provide extensive on-the-job practical training to increase individual team member knowledge of technologies which provide significant advantages to the business.
  - Motivates individuals to excel in their pursuit of technical abilities.
- Thorough documentation experience providing procedural references for both technical and non-technical customers.
- Experienced in International travel, professionally visited 11 countries outside of the US.
- Published a massive amount of high quality technical documentation online, covering topics such as Linux-KVM, ZFS, Hyper-V and more (<http://blog.allanglesit.com>).
- Not afraid to use custom or internally developed solutions to achieve a lower TCO and/or provide a superior solution.
- Extremely adaptable to changing technological and business landscapes.

## UNIX/LINUX SPECIFIC SKILLS

- ◆ Demonstrated abilities in the integration of Unix/Linux servers with Windows-based servers and clients, providing a more secure and stable network to the organization and end user.
- ◆ Capable in the administration of all levels of ZFS file systems on Solaris 11 Express.
- ◆ Adept in the use of Logical Volume Manager for storage flexibility.
- ◆ Experienced in the use of shell scripting to provide consistency when performing repetitive actions.
- ◆ Extremely familiar with Linux-KVM hypervisor for both Windows and Linux Guests.
- ◆ Familiar with contextualization technologies (Linux-VServer, OpenVZ, LXC) for increased flexibility and resource maximization.
- ◆ Skilled in the design and implementation of Linux and Unix to simplify, enhance, and automate the disaster recovery plan.
- ◆ Knowledgeable in the use of tcpdump to troubleshoot and identify firewall connectivity issues.
- ◆ Capable in the use of package management solutions (apt, yum, and portage) to streamline updates on Linux clients.
- ◆ Performed installations and configurations of multiple Unix/Linux operating systems, including Solaris, Debian, Ubuntu, RedHat/Fedora, Gentoo, and OpenBSD. In both desktop and server roles.

## WINDOWS SPECIFIC SKILLS

- ◆ Received Microsoft Most Valuable Professional award for 2009 and 2010 in Virtual Machine: Architecture.
- ◆ Highly knowledgeable in the design and implementation of Active Directory security to include permissions and rights restriction and delegation, group policies, and replication.
- ◆ Experienced in the use of MS Virtualization products (Virtual Server, Hyper-V, and Virtual Machine Manager) to reduce the TCO of a large, multi-user, multi-site lab and production environment.
- ◆ Skilled in the use of MS Cluster Server (2000, 2003, and 2008) products, using Parallel SCSI, SAS, and iSCSI hardware.
- ◆ Demonstrated skillset in the design, deployment, administration, and maintenance of SQL and Exchange product lines.
- ◆ Experienced in the implementation and administration of Distributed File System as Domain Root and Standalone Root.

For examples of my technical abilities and the quality of my documentation please see

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## Technical Proficiencies

**Certifications:** Unix/Linux Administration (May '06), MCP, MCDST, MCTS, MCSA, MCITP  
**Skills:** Networking, Virtualization, Storage, and Disaster Recovery  
**Platforms:** Windows Client/Server (9x/NT/2K/2K3/2K8/2K8R2), Unix (OpenBSD, FreeBSD, pfSense, Solaris), Linux (Red Hat, Fedora, Debian, Ubuntu)  
**Hardware:** HP, Dell, Compaq, IBM, Intel, StorageTek, Cisco, iSCSI and EMC SAN  
**Windows Tools:** Powershell, Administrative Tools (NT/2K/2K3/2K8), Exchange (2000, 2003, 2007, 2010), SQL (2000, 2005, 2008), Office Products, Hyper-V Server, WSUS, Sharepoint, Virtual Machine Manager, Windows Deployment Services, Distributed File System Namespaces and Replication  
**Unix/Linux Tools:** bash, rsync, vim, nfs, lvm2, libvirt, zfs, pf, sed, mdadm, snort, dhcpd, bind, linux-kvm, linux-vserver, openvz, lxc, rsnaphot, apache, mysql

## Professional Experience

WESTECH & SONOSITE, Bothell, WA  
Infrastructure Architect

July 2008 – Present

Servers: approx 80+      Users: approx 500

- ➔ Worked with team to develop a custom Fibre Channel SAN solution (based on Solaris 11 Express and ZFS), providing greater speed, capacity and features of the vendor provided alternatives.
- ➔ Wrote a complex offline migration script for Linux-KVM, tested on Ubuntu hypervisors.
- ➔ Developed a powershell script to enable Jumbo Frames on Hyper-V Virtual Switches.
- ➔ Coordinated an upgrade of Active Directory and Exchange to current levels, improving replication topology and network performance for all users.
- ➔ Published very in-depth documentation on running Linux Guests on Hyper-V.
- ➔ Remotely managed 16 geographically dispersed sites.

CONSONA CRM fka ONYX SOFTWARE, Kirkland, WA  
Infrastructure Architect

July 2006 – March 2009

Servers: approx 200+      Users: approx 80

- ➔ Engineered a large implementation of a Virtual Server Farm with capacity to host 300+ Virtual Machines (US and India) plus an offline library storage of over 3TB.
- ➔ Developed a library of base virtual machines to expedite the deployment of tested/verified configurations for the user.
- ➔ Identified hardware requirements and justifications, as well as worked with vendors to get accurate quotes, managed a budget in excess of \$300,000 USD for multiple offices in the US and India.

U.S. RESOURCES & BAE SYSTEMS, Seattle, WA  
Senior Systems Engineer

Mar 2005 – June 2006

- ➔ Provided direct support to 10 lower-level offices, in offsite locations, covering the state of Washington.
- ➔ Ensured timely and valid backups of critical server data for Federal Bureau of Investigation.
- ➔ Administered training to FBI Employees in both practical and semi-formal formats on technical topics.

UNITED STATES AIR FORCE, Fairchild AFB, Kunsan AB, Beale AFB

Jan 2000 – Apr 2005

Network Administrator, Lead Network Administrator, Configuration Management Supervisor

- ➔ Managed team of 4 to ensure configuration management on all network servers, this included patch management, in addition to resolving issues with the core OS.
- ➔ Designed and implemented Active Directory Security in order to decentralize administration to down-level organizations to accelerate service to end-users.

## Professional and Technical References

I will provide three Professional/Technical References on request by a potential employer.

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