

Lars Rasmussen

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IT Manager

Talented Information Technology professional with a proven ability to design, implement, and manage information systems and technology infrastructures. Creative, tenacious problem solver with the foresight to identify and seize opportunities to create value for an organization.

Professional Experience

DATA SOLUTIONS INTERNATIONAL CORPORATION, Seattle, WA

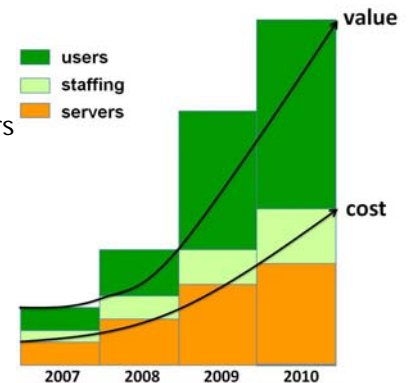
2003 – Present

(Contractor with U.S. Navy, Western Geospatial Data Center)

IT/Systems Manager 2004 – Present

Managed the information systems for the geospatial program, building a Regional Data Center “from the ground up.” Operations responsibility for hosting GIS data and applications for all Navy bases in western states; delivered exceptional growth in value across time and showed only a modest increase in cost tracking.

| 2004 | ➔ | 2010 |
|-------------------------|---|--|
| 5 contract employees | ➔ | 70+ contract employees |
| 10 ArcGIS Desktop users | ➔ | 700+ ArcGIS Desktop end-users via Citrix, 1000+ SharePoint and ArcGIS Server end-users |
| 5 physical servers | ➔ | 80 physical servers |
| 3 TB storage space | ➔ | 230 TB storage space |



Supported vast array of end-users from novices to advanced GIS analysts, including software developers, database administrators, web application administrators, planners, firefighters, engineers, comptrollers, directors, etc., with system uptime always between 99.8% – 100%.

Challenges:

- Reduce duplicative cost of maintaining identical computer systems in multiple states by consolidating GIS data sets and applications into one data center, and centralizing access to ArcGIS Desktops.
- Create a flexible infrastructure that could rapidly scale for future growth, utilizing best practices and lessons learned.

Competency:

- *Project and program management capabilities; designing, implementing, and managing an enterprise system from the ground up.*

Accomplishment Highlights:

- Thoroughly researched technology, industry standards, and best practices; designed an enterprise infrastructure that utilized Citrix technology to host ArcGIS Desktop (ArcMap & ArcCatalog).
- Worked with software developer to create a rigorous prototype that was approved for production.
- Implemented highly flexible, distributed system architecture, enabling applications to easily scale.
- In response to aggressive demand and increased need for IT resources, took the initiative to develop business cases that were unanimously approved.
 - Executed technology roadmap by collaborating with procurement and legal officials, and negotiating with IT vendors to purchase \$3.2 million in hardware and software.
 - Expanded enterprise storage up to 230TB and upgraded software, hardware, and enterprise power equipment to easily scale to increased need, whether due to innovation or demand shock.
- Supervised IT staff, and worked with GIS senior management to achieve objectives and key results.

“Meeting application performance and GIS capability expectations is not easily achieved in a centralized environment. However, the Navy model has proved successful where others have fallen short.”

Published ArcUser Magazine, Citrix Solved Hosting ArcGIS Applications (tinyurl.com/Citrix-Solved-Article)

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Challenges:

- Reduce infrastructure maintenance, capital costs, and data center footprint; improve efficiency and productivity of existing systems; expand storage capabilities; and speed up deployments.

Competency:

- *Natural talent for planning and management; ability to comprehend high-level systems design, improvise with technology, and work with and coordinate skilled team resources.*

Accomplishment Highlights:

- Implemented and managed high-availability storage infrastructure consisting of enterprise Fibre Channel storage area networks.
- Planned and provided oversight of enterprise class virtualization infrastructure implementation, combining VMware technology with scalable architecture and shared storage, serving thousands of virtual machines, with live migration of virtual machines and virtual disk files.

Challenge:

- Deliver decision support system for Western Regional Partnership (WRP) for production and development environment, providing end-users with a web map service and a collaborative platform.

Competency:

- *Adept at identifying and analyzing IT business needs, driving appropriate resources towards a solution.*

Accomplishment Highlights:

- Gathered system requirements and determined anticipated base of 5000+ users.
- Designed systems and network architecture, developing diagrams for support.
- Procured all software and hardware within a very tight budget.
- Planned and coordinated the deployment of ArcGIS Server by working closely with software developers and GIS analysts.

Challenge:

- Provide enterprise-level data protection, and increase efficiency of backing up and restoring data.

Competency:

- *Ability to understand and manage storage at an enterprise-level, make creative use of storage architecture, work well within a team environment, and challenge assumptions and status quo after careful analysis and research.*

Accomplishment Highlights:

- Pioneered the implementation of EMC Avamar within the DoD, data deduplication backup solution.
- Centralized data protection, utilizing SAN technologies to safeguard data against loss or corruption.
- Successfully drove backup initiative that improved data protection and reduced costs by eliminating duplicate file backups, decreased time required to administer backup system, provided file image backups and single step recovery of virtual machines, and simplified backup and recovery of large databases which ranged from 300GB to 2TB.

Education

Bachelor of Arts in Computer Science, University of Washington, Seattle, WA

Associate of Arts in Geography, North Seattle Community College, Seattle, WA

Certifications

Microsoft Certified Systems Administrator 2003 (MCSA) • Microsoft Certified Professional (MCP) • Cisco Certified Network Associate (CCNA) • Citrix Certified Administrator 3.0 (CCA), Citrix MetaFrame Presentation Server 3.0: Enterprise Edition • Certified A+ Professional • Certified Network+ Professional • Certified Security+ Professional

Complete technology profile on page 3.

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Technology Profile

Networks and Operating Systems

Windows Server 2000/2003/2008 R2 • Active Directory Configuration and Implementation • Firewall Implementation and Configuration • Disaster Recovery • Network Monitoring • OS Hardening and Security Audits • Virtualization • Storage Area Networks (SAN) • Transmission Control Protocol/Internet Protocol (TCP/IP) • Domain Name System (DNS) • Dynamic Host Configuration Protocol (DHCP) • Simple Mail Transfer Protocol (SMTP) • Lightweight Directory Access Protocol (LDAP) • Inter-VLAN Routing • Spanning Tree Protocol (STP) • Access Control List (ACL) • Trunking with ISL and 802.1q • Frame Relay • IP Routing • Routing Information Protocol (RIP) • Open Shortest Path First (OSPF) • Interior Gateway Routing Protocol (IGRP) • Enhanced Interior Gateway Routing Protocol (EIGRP) • Border Gateway Protocol (BGP) • Network Address Translation (NAT) • Port Address Translation (PAT) • Password Authentication Protocol (PAP) • Challenge Handshake Authentication Protocol (CHAP)

Applications / Tools

Microsoft Internet Information Services (IIS) • Microsoft SQL Server 2000, 2005, and 2008 • Microsoft Forefront Threat Management Gateway (TMG) 2010 • Microsoft Hyper-V 2008 • Windows Terminal Services • Microsoft SharePoint Portal Server • Citrix Presentation Server/XenApp • Citrix Secure Gateway • Citrix Web Interface • Symantec AntiVirus Server • Veritas NetBackup Enterprise Server • Veritas Backup Exec • SolarWinds Orion NPM • VMware ESX Server 3.5 • VMware vSphere 4.0 • EMC Avamar • EMC SnapView • EMC MirrorView/Asynchronous • EMC Navisphere Manager • ArcGIS Desktop • ArcGIS Server • LMTTools • Retina Network Security Scanner • McAfee ePolicy Orchestrator

Hardware

EMC CLARiiON CX4-480 • EMC CLARiiON CX3-20 • EMC CLARiiON AX150 • EMC CLARiiON AX100 • EMC Avamar • Brocade SAN switches • SilkWorm SAN switches • Cisco ASA • Cisco PIX • Cisco Switches • Cisco Aironet • IP KVM Switches • APC InfraStruXure PDU 40kW • APC InfraStruXure Central • Dell PowerEdge M1000e Blade Chassis • Dell PowerEdge Blade Servers & Dell PowerEdge Servers • Dell PowerVault • HP ProLiant Enterprise Servers