ROBERT R. HARDESTY

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EXPERIENCE

DANA-FARBER CANCER INSTITUTE: Boston, MA   *2013 to Present*

Senior System Engineer III

• Designed the multi-tiered storage solution used by Dana Farber to store over 10 petabytes of research data.
• Responsible for the selection of Mediaflux from Arcitecta as the front-end object-oriented database to manage all the research data.
• Migrated over 10 petabytes of data from older legacy ZFS based block storage systems to a new object-oriented storage system.
• Utilized products such as Trello, Excel, Smartsheet, PowerPoint, and MS Projects to manage and track the progress of the migration.
• Built a private network between the storage servers to improve the data transfer time between servers and researchers by over 500%.
• Implemented automation of many of the system's tasks/processes to improve customer service response time from days to hours.
• Integrated and tuned the monitoring system using Nagios to provide real-time system status.
• Installed and configured Grafana to allow tracking of the storage systems and services to improve performance.
• Created over 30 scripts using Python, BASH, or PERL to help new System Administrators manage the Mediaflux services.
• Developed several scripts to run on a daily or weekly basis to generate reports on the system status and storage usage for management.
• Used Ansible to keep the configurations between storage, database, and I/O nodes in sync and up-to-date to any changes and releases.
• Documented the configuration of the systems, services and operating procedures using Confluence.
• Produced over 50 SOP's and how-to documents to standardize procedures and train new users on the system.
• Managed the connected Spectra Logic's Cube LTO-9 tape system and BlackPearl with the capacity to store over 30 petabytes of storage.
• Configured the tiered storage system to work with the AWS cloud and Wasabi to give it virtually unlimited storage ability.
• Managed the AWS and Wasabi cloud environments to create and delete users and data buckets.
• Facilitated weekly Agile Scrum like meetings to track progress and resolve issues among other Engineers to keep their tasks on schedule.
• Moved large datasets using the AWS Snowballs from the Data Center to the AWS cloud to reduce transfer times.
• Reconfigured the ILO network to its own subnet and limited secure access to terminal server connections.

Data Life Cycle Manager

• Designed and managed a tiered storage solution for clients' Big Data needs.
• Collaborated with different groups to manage their legacy data off older platforms such as Isilon and other private storage systems.
• Reconfigured the storage architecture to better manage the customers' needs.
• Implemented a Disaster Recovery plan to reduce Data Center downtime from weeks to days.
• Assisted with the installation and management of the QualStar XLS Tape Library with over 2900 tape slots and 9 petabytes of storage.
• Responsible for designing a method to store and track backup XLS tapes at Iron Mountain.
• Wrote several scripts to integrate the backup and archiving of the storage data with the QualStar Tape Library.

SKILL HIGHLIGHTS

Operating Systems: Solaris, Linux, CentOS, RedHat, Ubuntu, Fedora, among many others
Programing & Scripting Languages: Python, BASH, PERL, PHP, MySQL, HTML, and LISP
Storage & Data Management: ZFS, Spectra Logic Cube, Qualstar XLS, MediaFlux
Tools & Platforms: Ansible, Grafana, Nagios, Trello, Smartsheets, Excel, PowerPoint, MS Project, JIRA, ServiceNow
Server & Infrastructure Management: VMware, DNS, LDAP, RADIUS, Sendmail, Apache, LAMP stack, ILO
Soft Skills & Management: Cross-team collaboration, agile-style leadership, project planning, training, and onboarding support
Cloud & Virtualization: AWS, IAM, S3, Snowball, Wasabi, Hybrid cloud storage architecture, Cloud buckets and user management

EDUCATION

Eastern Gateway Community College
Associate of Applied Business
Business Management with Information Systems Focus
Honors: *summa cum laude* (GPA: 4.0/4.0)

University of Lowell
Bachelor of Science in Electrical Engineering
Minor in Math with Computer Science option