Systems Engineer - AWS Simple Storage Service (S3) - University Candidate: May 2014 Grads Only

Job Description
Amazon is building some of the largest distributed systems in the world, and we need smart people to help plan and put together the pieces. Amazon Simple Storage Service (S3) provides a simple web services interface that can be used to store and retrieve any amount of data, at any time, from anywhere on the web. We have high standards for our computer systems as well as our employees: our systems are highly reliable, highly available, and turn scale into an advantage for our business and an asset to our customers; our employees are super smart, driven to serve customers, and fun to work with. The successful Systems Engineer / Administrator joining the S3 team will do much more than plug computers together or track changes. The candidate will be instrumental in deploying, operating, and scaling a massive always-on distributed system that is part of an entirely new software development approach. We are looking for a seasoned Systems Engineer / Administrator to join our energetic, hard-driving, and passionate team.

You should have or be most of the following:

- Experience running and maintaining a 24x7 Internet-oriented production environment, preferably across multiple data centers, involving (preferably) at least hundreds of machines
- Demonstrate excellent expertise in configuring, designing, and/or implementing system health, performance monitoring tools, and software management tools for 24x7 environments
- A solid grasp of networking fundamentals, preferably including hands-on experience with load balancers, switches, routers, etc.
- Familiar with the challenges surrounding efficient operations and failure mode analysis in large complex distributed systems

You will be expected to deliver on these kinds of things in the first six to twelve months on the job:

- Through participation in all phases of the development of a large distributed system, provide hardware, manageability, operability and performance perspectives on all aspects of S3 and potentially its dependencies
- Define and/or refine hardware requirements and selected designs, balancing raw up-front dollar cost with operability and TCO, from the data center infrastructure up specify and participate in the development and delivery of operability-related features such as system health monitoring, diagnostics, repair, and other self-healing automation
- Develop or further existing application and system management tools and processes that reduce manual efforts and increase overall efficiency
- Adapt and improve operations management systems and processes to accommodate rapid and increasing growth in systems and traffic
- Participate in the design and execution of production acceptance tests and new hardware evaluations
- Maintain fleet inventory management, including producing, maintaining, and evolving capacity plans for various components
- Monitor the health of the fleet, automating system health, maintenance tasks, and reporting systems as needed
- Perform various system maintenance tasks (your hands get dirty here), including configuration of new machines
- Manage directly assigned tasks and on-call duties gracefully

Basic Qualifications

- BS Computer Science or other technical degree and/or related
- 1-5+ years of solid *NIX system administration experience
- Development of systems management and administration automation in a high level scripting language (Perl, Python, Ruby) or Java
- US citizenship required

Preferred Qualifications

- Experience with systems management or monitoring software (home-grown or commercially available)
- Automation or monitoring framework experience, deployment or development
- Experience with very large distributed systems such as multi-terabyte storage farms, and/or horizontally scaled request processing fleets
- Experience with SATA, iSCSI, NAS, SAN and other modern storage technologies
- Experience with hardware load balancer administration, network optimization, or other related and demonstrable TCP-level experience

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