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Administration examples from Google, Etsy, Twitter, Facebook, Netflix, Amazon, and other industry giants are explained in practical ways that are useful to all enterprises. The new companion to the best-selling first volume, *The Practice of System and Network Administration, Second Edition*, this guide offers expert coverage of the following and many other crucial topics: Designing and building modern web and distributed systems; Fundamentals of large system design; Understand the new software engineering implications of cloud administration; Make systems

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Administration The mess that breaks any time you try to improve it? Is there a periodic "hell month" that happens twice a year? Twelve times a year? Do you find out about problems when your users call you to complain? Does your corporate "Change Review Board" terrify you? Does each division of your company have their own broken way of doing things? Do you fear that automation will replace you, or break more than it fixes? Are you underpaid and overworked? No vague "management speak" or empty platitudes. This comprehensive guide provides real solutions that prevent these problems and more!

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With platforms designed for rapid adaptation and failure recovery such as Amazon Web Services, cloud computing is more like programming than traditional system administration. Tools for automatic scaling and instance replacement allow even small DevOps teams to manage massively scalable

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"As an author, editor, and publisher, I never paid much attention to the

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network and system administration from the perspective of the underlying principles that do not change on a day-to-day basis. Shows how to discover customer needs and then use that information to identify, interpret, and evaluate system and network requirements. Fully updated to cover new technologies including Java Services and Ipv6 and both Unix and Windows systems. Extended coverage of security including ISO 17799 About The Book: Burgess approaches both network and system administration from the perspective of principles and ideas which do not

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change on a day-to-day basis. A great deal of attention is paid to the heuristics of system and network administration; technical and sociological issues are taken into account equally and are presented thoughtfully with an eye to teaching not what to do as a system or network administrator, but how to think about problems that arise in practice. As a result, the author keeps the reader looking forward to what comes next and how to implement what he or she has learned. The focus is on strategic issues, how to keep systems maintainable and how to manage

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configuration files across an enterprise. During the 80s and most of the 90s the frontiers of system administration were about understanding what the job entailed and building tools in order to manage networks more efficiently. The next phase is about standardization of management and practice, making system administration more formal and less ad hoc, and Burgess' book is one of the first to begin to push into this area. Whilst there are multitudes of ways to become a systems administrator, many employers prefer to hire people with some formal

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college education. The
Certification and practical
experience demonstrating
these skills will be
essential for applicants
without a degree. Systems
administrators must keep
their skills current and
acquire new ones.

The overwhelming majority of
a software system's lifespan
is spent in use, not in
design or implementation.
So, why does conventional
wisdom insist that software
engineers focus primarily on
the design and development
of large-scale computing
systems? In this collection
of essays and articles, key
members of Google's Site

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Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and

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reliability engineer (SRE)
Practices—Understand the
theory and practice of an
SRE's day-to-day work:
building and operating large
distributed computing
systems Management—Explore
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At the end of this AWS book, you'll be ready to build your two-tier startup with all the necessary infrastructure, monitoring, and logging components in place. What you will learn

- Adopt a security-first approach by giving users minimum access using IAM policies
- Build your first Amazon Elastic Compute Cloud (EC2) instance using the AWS CLI, Boto3, and Terraform
- Set up your datacenter in AWS Cloud using VPC
- Scale your application based on demand using Auto Scaling
- Monitor services using CloudWatch and SNS
- Work with centralized logs for analysis (CloudWatch Logs)

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Back up your data using Amazon Simple Storage Service (Amazon S3), Data Lifecycle Manager, and AWS Backup. Who this book is for: This Amazon Web Services book is for system administrators and solution architects who want to build highly available and flexible AWS Cloud platforms for their applications. Software engineers and programmers looking to deploy their applications to AWS Cloud will also find this book useful. Basic knowledge of Linux and AWS is necessary to get started.

Early system administration required in-depth knowledge

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of a variety of services on individual systems. Now, the job is increasingly complex and different from one company to the next with an ever-growing list of technologies and third-party services to integrate. How does any one individual stay relevant in systems and services? This practical guide helps anyone in operations--sysadmins, automation engineers, IT professionals, and site reliability engineers--understand the essential concepts of the role today. Collaboration, automation, and the evolution of systems change the fundamentals of

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operations work. No matter where you are in your journey, this book provides you the information to craft your path to advancing essential system administration skills.

Author Jennifer Davis provides examples of modern practices and tools with recommended materials to advance your skills. Topics include: Development and testing: Version control, fundamentals of virtualization and containers, testing, and architecture reviewDeploying and configuring services: Infrastructure management, networks, security, storage, serverless, and release

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administration: Monitoring
and observability, capacity
planning, log management and
analysis, and security and
compliance

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processes and technologies
that will aid in your
professional development as
a new system administrator.
While every information
technology culture is
specific to its parent
organization, there are
commonalities that apply to
all organizations. The
Accidental SysAdmin
Handbook, Second Edition
looks at those commonalities
and provides a general

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introduction to critical aspects associated with system administration. It further acts to provide definitions and patterns for common computer terms and acronyms. What You Will Learn Build and manage home networking and plan more complex network environments Manage the network layer and service architectures as well as network support plans Develop a server hardware strategy and understand the physical vs. virtual server ecosystem Handle data storage, data strategies and directory services, and central account management Work with DNS, DHCP, IP v4 and IP v6

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