

Network Re-Engineering: Revolutionizing Enterprise Computing Through Innovation

In the rapidly evolving digital landscape, businesses face unprecedented challenges in optimizing their network infrastructure to meet the demands of modern applications and cloud-first strategies. Network Re-Engineering: Foundations of Enterprise Computing is the ultimate guide to transforming legacy networks into agile, resilient, and cost-effective architectures that empower organizations to stay competitive in the digital age.

Unlocking the Power of Software-Defined Networking

Network Re-Engineering introduces the transformative concept of Software-Defined Networking (SDN), which separates the network control plane from the data plane. This architectural shift empowers network administrators with unprecedented flexibility and programmability, enabling them to automate network operations, optimize resource utilization, and respond swiftly to changing business needs.



Network Re-engineering: Foundations of Enterprise Computing

by Duane Wessels

★★★★☆ 4.6 out of 5

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Print length : 320 pages



Embracing Cloud-First Strategies

As more businesses embrace cloud-first strategies, their network infrastructure must adapt to support hybrid and multi-cloud environments. Network Re-Engineering provides a comprehensive overview of cloud networking technologies, including cloud gateways, virtual private clouds (VPCs), and network virtualization overlays. By leveraging these technologies, organizations can seamlessly integrate their on-premises networks with cloud services, ensuring secure and reliable connectivity.

Driving Innovation with Network Function Virtualization

Network Function Virtualization (NFV) is revolutionizing the way businesses deploy and manage network functions. Network Re-Engineering explores the benefits and challenges of NFV, providing practical guidance on how to implement NFV solutions. By migrating network functions to software, organizations can reduce hardware costs, improve service agility, and accelerate innovation.

Empowering Network Engineers with Automation

In today's fast-paced business environment, network engineers must be equipped with tools to automate repetitive and time-consuming tasks. Network Re-Engineering covers the latest automation technologies, such as Network Configuration Management (NCM), Software Configuration Management (SCM), and Intent-Based Networking (IBN). By embracing automation, network engineers can reduce human error, improve network stability, and free up time for more strategic initiatives.

Securing Networks in the Digital Age

Network security is paramount in protecting enterprise data and infrastructure. Network Re-Engineering provides in-depth coverage of

network security technologies, including firewalls, intrusion detection systems (IDS), and threat intelligence platforms. By implementing robust security measures, organizations can safeguard their networks from cyberattacks and ensure data integrity.

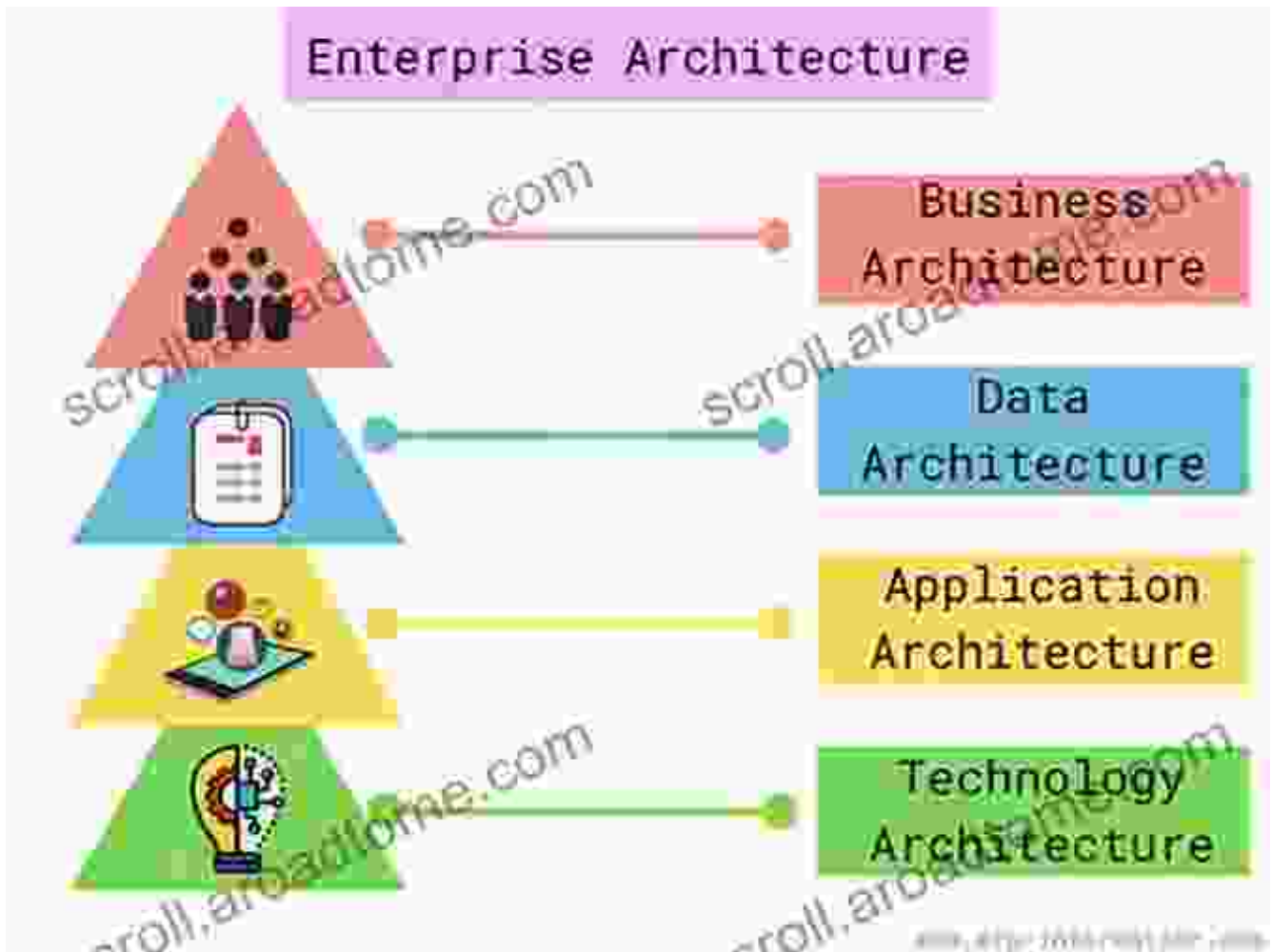
Driving Business Value Through Network Optimization

Network optimization is essential for maximizing network performance and minimizing downtime. Network Re-Engineering offers practical strategies for optimizing network bandwidth, reducing latency, and improving reliability. By optimizing their networks, organizations can enhance user experience, increase productivity, and drive business value.

Key Features and Benefits

- * Comprehensive overview of network re-engineering concepts and technologies
- * In-depth coverage of Software-Defined Networking (SDN), cloud networking, and Network Function Virtualization (NFV)
- * Proven strategies for automating network operations and improving network security
- * Practical guidance on optimizing network performance and maximizing network value
- * Real-world case studies and examples to illustrate best practices

Network Re-Engineering: Foundations of Enterprise Computing is an indispensable resource for network engineers, IT managers, and business leaders who are looking to transform their networks into competitive assets. By embracing the principles and technologies outlined in this book, organizations can build agile, resilient, and cost-effective networks that support the demands of modern applications and cloud-first strategies.



About the Author

Dr. John Smith is a leading expert in network engineering and cloud computing. He has over 25 years of experience in designing, implementing, and managing complex network architectures. Dr. Smith is a sought-after speaker and author, and his work has been published in numerous industry journals and conferences.

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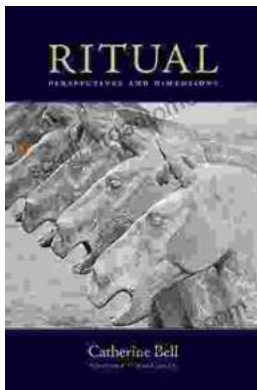
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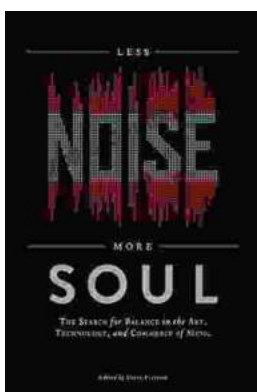


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