

Cloud Computing Networking: Theory, Practice, and Development

Lee Chao



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Cloud computing is the most significant technology transformation since the introduction of the Internet in the early 1990s. As more and more companies and educational institutions plan to adopt a cloud-based IT infrastructure, today's job market requires IT professionals who understand cloud computing and have hands-on experience developing cloud-based networks. **Cloud Computing Networking: Theory, Practice, and Development** covers the key networking and system administration concepts as well as the vital hands-on skills you need to master cloud technology.

This book is designed to help you quickly get started in deploying cloud services for a real-world business. It provides detailed step-by-step instructions for creating a fully functioning cloud-based IT infrastructure using the Microsoft Azure cloud platform. In this environment, you can develop cloud services collaboratively or individually. The book enhances your hands-on skills through numerous lab activities. In these lab activities, you will learn to

- Implement the following services in a cloud environment: Active Directory, DHCP, DNS, and Certificate Services
- Configure Windows Server so it can route IP traffic
- Implement IP Security Policy and Windows Firewall with Advanced Security tools
- Create a point-to-site connection between Microsoft Azure and a local computer
- Create a site-to-site connection between Microsoft Azure and an on-premises network
- Develop a hybrid cloud that integrates Microsoft Azure with a private cloud created on a local network

Cloud Computing Networking: Theory, Practice, and Development includes numerous examples,

figures, and screen shots to help you understand the information. Each chapter concludes with a summary of the major topics and a set of review questions. With this book, you will soon have the critical knowledge and skills to develop and manage cloud-based networks.

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