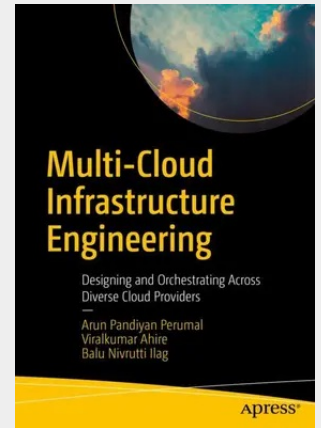


Multi-Cloud Infrastructure Engineering

Designing and Orchestrating Across Diverse Cloud Providers

This book provides a comprehensive guide to building scalable, resilient, and cost-effective cloud architectures across multiple providers like AWS, Azure, and private clouds. As organizations increasingly adopt cloud-first strategies, this book explores critical challenges such as interoperability, resilience, security, and cost optimization. Through cloud-agnostic design principles, it equips practitioners with the tools to avoid vendor lock-in while maximizing performance and scalability. Covering key concepts like infrastructure as code (IaC), Kubernetes-based containerization, cross-cloud networking, identity federation, and automation, the book bridges theory with real-world implementation strategies. Readers will learn how to design enterprise-grade multi-cloud infrastructures, integrate DevOps CI/CD pipelines, implement SRE principles, and adopt next-gen cloud automation. Whether you're new to multi-cloud computing or an experienced practitioner, this book provides the essential knowledge to secure cloud environments, drive innovation, and stay competitive in an ever-evolving digital landscape. You Will: - Understand the core principles of designing and managing infrastructure across AWS, Azure, and private clouds - Learn how to build scalable and resilient systems while avoiding vendor lock-in - Discover strategies for reducing cloud expenses while maintaining high availability and performance This book is for: Cloud Architects, Site Reliability Engineers, DevOps Engineers, Platform Engineers, Cloud Security Specialists, Software Developers, and Managers or Directors of Cloud Operations

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