



Enterprise-Grade Hybrid and Multi-Cloud Strategies : Proven Strategies to Digitally Transform Your Business with Hybrid and Multi-Cloud Solutions /

AG, Sathya,
author

Monografía

Leverage cloud technologies, proven strategies, and effective frameworks to drive seamless digital transformation. Key Features Understand the challenges enterprises face with cloud adoption and the importance of leadership vision Learn how to build the foundation for a vendor agnostic cloud-ready enterprise Discover best practices to architect an enterprise cloud strategy and responsibly innovate with emerging technologies Purchase of the print or Kindle book includes a free PDF eBook Book Description In the past decade, cloud technology has evolved from a mere deployment platform into a driving force of innovation. However, navigating the complexities of cloud adoption, especially with a hybrid approach, presents significant challenges. Solving Hybrid Cloud Challenges for Enterprises is your trusted guide to overcome the problems encountered in this process. Written by a principal architect at Google with 15+ years of experience, this vendor agnostic book begins by exploring the case studies of enterprises stepping into the world of the cloud, highlighting the pivotal role of leadership vision and mindset in driving digital transformation. You'll explore the basics of cloud technology, its impact on various industries, and the challenges of cloud adoption. As you dive deeper, you'll find real-world use cases of enterprises that have digitally disrupted their respective industries by innovating in the cloud. From assessing the cloud maturity of an organization and designing a cloud strategy to exploring the various facets of cloud transformation, this book will guide you at every step of the way. Finally, you'll learn how to lead your organization's cloud transformation journey with emerging technologies. By the end, you'll be well-equipped to design and architect a scalable, cloud-first IT organization. What you will learn Understand the hybrid cloud and multi-cloud paradigms Cultivate leadership will and mindset for crafting successful cloud transformation Design and architect a scalable and open foundation for a cloud-first IT organization Apply open standards and frameworks to design a vendor-neutral cloud foundation Understand the cloud adoption frameworks and conduct maturity assessments Realize tangible business value through cloud adoption initiatives Who this book is for This book is for cloud architects and engineers responsible for and seeking to digitally transform their business through cloud. Enterprise IT leaders will be able to successfully navigate the enterprise cloud transformation complexities with cloud migration strategies, prescriptive frameworks, and practical real-world examples. A basic understanding of enterprise IT functions and operations is assumed

Título: Enterprise-Grade Hybrid and Multi-Cloud Strategies Proven Strategies to Digitally Transform Your Business with Hybrid and Multi-Cloud Solutions Sathya AG and Kunal Das

Edición: First edition

Editorial: Birmingham, England Packt Publishing [2024] 2024

Descripción física: 1 online resource (362 pages)

Nota general: Includes index

Contenido: Cover -- Title Page -- Copyright -- Dedication -- Foreword -- Contributors -- Table of Contents -- Preface -- Part 1: Challenges with Cloud Adoption at an Enterprise Scale -- Chapter 1: Leadership, Will, and Mindset -- The Blockbuster case study -- Innovation is NOT optional -- The innovation continuum -- Two tales of leadership, will, and mindset -- Leading the digital transformation of enterprise -- Summary -- Further reading -- Chapter 2: A Primer on the Cloud -- Essential characteristics of the cloud -- Service models -- Value drivers of different service models -- Cloud deployment models -- Driving business agility with cloud -- Cloud adoption in different industries -- Retail -- The store of the future -- Point of sale (POS) -- E-commerce to omni-commerce -- Customer data platform -- Supply chain demand planning and forecasting -- Associate productivity -- Other areas of innovation -- Healthcare and life sciences -- Banking, financial services, and insurance -- Telecommunications -- Government -- Adopting a hybrid cloud -- What is and isn't a hybrid cloud? -- Challenges in adopting a hybrid cloud -- Myths of cloud adoption -- Myth 1 - the cloud is a one-size-fits-all solution approach -- Myth 2 - the cloud creates a vendor dependency and lock-in -- Myth 3 - the cloud is more expensive than traditional on-premises -- Myth 4 - the cloud is less secure than traditional on-premises -- Myth 5 - the cloud is a panacea -- Summary -- Further readings -- Chapter 3: Enterprise Challenges with Cloud Adoption -- Where do we start? Complexities of an enterprise IT ecosystem -- Tech debt -- Business units creating their IT marts -- Proprietary private clouds -- Data sprawl and integration -- Security -- Choosing the right cloud strategy -- Identifying the right workloads for cloud transformation -- Big bang migration -- Data center exit Lift and shift applications to the cloud -- Hybrid cloud strategy -- Multi-cloud strategy -- Choosing the right cloud provider -- Business aspects -- Technology aspects -- Innovation aspects -- Security aspects -- Dealing with financials -- Summary -- Part 2: Succeeding with Hybrid Cloud and Multi-Cloud -- Chapter 4: Building the Foundations for a Modern Enterprise -- Leavitt's diamond for change management -- The golden triangle -- People - the foundation of organizational success -- Processes - streamlining operations and enhancing efficiency -- Technology - enabling innovation and competitive advantage -- Enterprise cloud maturity assessment -- Cloud Adoption Maturity Model (CMM) -- The people pillar -- The process pillar -- The technology pillar -- Google's Cloud Adoption Framework (CAF) -- CCoE -- Building the foundations for a cloud-ready enterprise -- The startup mindset -- Everything is a product -- Platform as a product -- The Internal Developer Platform (IDP) -- A focus on CUIs -- Embracing open source in the cloud -- Summary -- Further reading -- Chapter 5: An Enterprise Journey to Cloud Transformation -- Picking the right cloud initiatives using the multi-dimensional value-complexity matrix -- Complexity factors -- Business value factors -- NPV -- Enterprise cloud transformation journeys -- Modernizing on-premises applications -- Optimizing on-premises data centers -- Born in the cloud -- Other unique transformation journeys -- Cloud migration strategies -- The 6 R's application migration strategies -- Hybrid cloud strategies -- Dev-test in the cloud, production on-premises -- Disaster recovery in the cloud -- Cloud bursting -- Innovating in the cloud through emerging technologies -- IoT -- Artificial intelligence -- Edge computing -- Blockchain -- Summary -- Further reading -- Chapter 6: Building an Open and Nimble Cloud Framework Assess -- Plan -- Deploy -- Optimize -- Various hybrid cloud and multi-cloud deployment patterns -- Tiered hybrid cloud pattern -- Partitioned multi-cloud pattern -- Edge computing deployment pattern -- Redundant hybrid deployment pattern -- Foundational network blueprints for hybrid and multi-cloud deployment architectures -- Meshed hybrid cloud network topology -- Multi-cloud network topology -- Gated egress hybrid cloud topology -- Gated ingress hybrid-cloud topology -- Shared network topology -- Private hybrid topology -- Network peering topology -- Edge network topology -- Security foundations for enterprises -- Shared security models of major CSPs -- Designing a security-first cloud architecture -- Network security -- Identity and access management -- Infrastructure security -- Application security -- Cloud-native anti-

patterns -- Monolith castles in the cloud -- Ignoring resource and cost optimization -- Undifferentiated heavy lifting -- Bloated containers -- Mutable infrastructure -- Summary -- Further readings -- Chapter 7: Hybrid Cloud Use Cases -- Airbnb - leading business transformation through technology -- Disrupting the hospitality industry -- A business born in the cloud -- The first architecture -- Evolution to microservices -- Multi-cloud adoption and transformation -- The pandemic and economic slowdown - the optimization phase -- Carrefour's sustainable digital transformation journey -- The Carrefour omnichannel strategy -- A bold initiative augmented by cloud transformation -- Transforming legacy IT to the modern cloud -- Carrefour's IT architecture strategy -- Looking ahead - Carrefour's digital retail 2026 strategy -- Wendy's transforming consumer experiences -- Global Next Gen -- Reimagining the restaurant experience through technology -- Capital One - transforming banking through technology Capital One's cloud transformation journey -- Capital One's talent acquisition strategy -- Re-architecting the Capital One mobile app on the cloud -- Summary -- Further reading -- Part 3: Lead and Transform Your Business with Cloud -- Chapter 8: Architecting a Cloud-Ready Enterprise -- Building a framework for a cloud-ready enterprise -- Cloud foundation layer -- Legacy apps -- Application development and operations -- API orchestration, and integration layer -- Cloud architecture frameworks from major cloud service providers -- AWS Well-Architected Framework -- Google Cloud Architecture Framework -- Microsoft Azure Well-Architected Framework -- Private and hybrid cloud strategies -- Summary -- Further reading -- Chapter 9: Facets of Digital Transformation -- Building a security-first cloud architecture -- Foundational security principles -- Automating cloud asset management -- IAM -- Network security -- Application security -- Data security -- Data sovereignty and data residency -- Rethinking infrastructure -- Compute infrastructure -- Network infrastructure -- Storage infrastructure -- Application modernization strategy -- Traditional application modernization -- Cloud-native DevOps -- Data modernization -- Cloud optimization and cost governance -- The inform phase -- The optimize phase -- The operate phase -- Summary -- Further readings -- Chapter 10: Leading and Innovating with the Cloud -- Innovating with the cloud -- Setting up innovation labs -- Vision and governance -- Talent and partnerships -- Innovate and deliver -- Innovating with big data and serverless -- Banking and financial services -- Retail -- Healthcare -- Embedding AI across the enterprise -- GenAI -- XR -- Edge computing -- Blockchain -- Quantum computing -- Responsible uses of emerging technologies -- Summary -- Further reading -- Chapter 11: ESG and Sustainability Definition of ESG and sustainability -- Environmental impact -- Social impact -- Governance -- The value of ESG for enterprises -- Stakeholder expectations -- Competitive advantage -- Long-term business viability -- Risk mitigation -- Regulatory landscape -- Building a sustainability program -- ESG reporting standards and frameworks -- Double materiality assessment and reporting -- Adopting an ESG reporting program -- Cloud computing as an ESG enabler -- Environmental factors -- Social factors -- Governance factors -- Building sustainable applications in the cloud -- Summary -- Further reading -- Index -- About PACKT -- Other Books You May Enjoy

ISBN: 1-80461-162-X

Materia: Informática en la nube

Autores: Das, Kunal, author

Enlace a formato físico adicional: 1-80461-511-0

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es