

1. Record Nr.	UNINA9910917199103321
Autore	Deshmukh Gaurav
Titolo	Decentralized Business : A Guide to Transforming Business Strategies with Distributed Ledger Technologies
Pubbl/distr/stampa	Berkeley, CA : , : Apress L. P., , 2024 ©2024
ISBN	979-88-6880-953-8
Edizione	[1st ed.]
Descrizione fisica	1 online resource (161 pages)
Altri autori (Persone)	Thameem NizamudeenSyed Mohamed
Disciplina	658
Soggetti	Business - Technological innovations Business - Data processing Blockchains (Databases) Cloud computing Decentralization in management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Intro -- Table of Contents -- About the Authors -- Chapter 1: Introduction -- What Is Distributed Ledger Technology (DLT)? -- Decentralization -- Business Value of Distributed Ledger Technologies -- Understanding DLT for the Business World -- For Business Owners -- In Finance -- Logistics -- In Supply Chain Management -- Healthcare -- Government and Public Sector -- DLT and Blockchain -- Companies Using DLT -- IBM -- Amazon -- Walmart -- Alphabet Inc. (Google) -- Toyota Motor Corporation -- The Future -- Chapter 2: Strategic Overview -- Applications in the Business World -- How Is Blockchain Different from DLT? -- Challenges Pertaining to Blockchain -- Smart Contracts -- What Are Smart Contracts? -- The Regulatory Challenges of Blockchain and Smart Contracts -- Chapter 3: DLT for Cloud Professionals -- What Is Decentralized Cloud Computing? -- Why Not Centralized Cloud Computing? -- Objectives of Decentralized Cloud Computing -- No Monopolized Control -- Enhanced Competition -- Protection of Users' Privacy -- Reliability -- Affordability -- Quality Services -- Storage and Power-Sharing -- Enhanced Security -- Application of DLT in Cloud Computing -- Supply Chain Management

-- Managing User IDs and Permissions -- Data Management and Storage -- Financial Transaction Processing and Payment Processing -- Advantages of Decentralized Cloud Computing -- Enhanced Security -- Data Ownership and Control -- Cost-Effectiveness -- Scalability -- Real-World Examples of Decentralized Cloud Computing -- Bittensor -- Gensyn -- Chapter 4: Use Cases of DLTs in Cloud Computing -- DLT Use Cases for Cloud Computing -- Secure Data Storage -- Smart Contracts -- Supply Chain Management -- Identity Verification -- Decentralized Applications (dApps) -- Tokenization -- Voting Systems -- Healthcare -- Financial Services -- Internet of Things (IoT).
Real-World Implementations -- Chapter 5: Integrating DLTs in Cloud-Based Infrastructures -- Identifying the Use Case -- Choosing the Right DLT Platform -- Ethereum (ETH) -- Hyperledger Fabric -- Corda -- Quorum -- Designing the DLT Network -- Develop Smart Contracts -- Testing and Validating -- Deploy and Monitor -- Architecture Considerations and Best Practices -- Chapter 6: Challenges and Security -- Technical Challenges of Decentralized Systems -- Scalability -- Interoperability -- Consensus Mechanism -- Privacy and Confidentiality -- Security Risks and Mitigation Strategies -- 51% Attacks -- Smart Contract Vulnerabilities -- Sybil Attacks -- Data Tampering -- Chapter 7: Web3 Strategies for Cloud Professionals -- Strategic Opportunities for Cloud Professionals -- Creation of dApps -- Smart Contracts -- Development of Digital Assets -- New Ownership and Transactional Models -- Decentralized Storage -- Content-Addressed Data -- Peer-to-Peer Network -- Decentralization and Redundancy -- Efficiency Through Deduplication -- Versioning and Mutability -- Use Cases for Decentralized Storage -- Privacy and Security -- Decentralized Identity Management -- Decentralized Computing -- Decentralized Finance -- Decentralized Governance -- How to Excel in Decentralized Systems -- Career Prospects in Web3 (for Cloud Professionals) -- DLT Cloud Engineer -- Smart Contract Developer -- DLT Cloud Architect -- DLT Security Specialist -- DLT Consultant -- Chapter 8: Case Studies -- Estonia's eID System -- Honduras' Public Land Record System -- Supply Chain Management -- Walmart's Food Tracking System -- Financial Services -- Ornuu: Substituting LCs -- Election Voting Systems -- Utah County's Blockchain-Based Voting System -- Healthcare -- Medchain -- Smart Contracts -- Smart Contracts in Freight Invoice Management -- Tokenization -- Tokenization in Asset Ownership.
dApps -- Cloud Providers Integrating DLTs -- Success Factors and Lessons Learned from Decentralization and Integrating DLTs into Business Operations -- Success Factors -- Decentralized System (Protocol) -- Transparency in Data Information -- Ensuring Data Immutability -- Increasing Data Security and Reliability -- Providing Full Traceability -- Lessons Learned -- Digital Innovation -- Information Management and Smart Contracts -- Intelligent Construction -- Methods and Techniques in Data Analytics -- Chapter 9: Regulatory Considerations in Decentralized Cloud Solutions -- User-Controlled Data Sharing -- Consent Management -- Transparency and Auditing -- Data Privacy -- Jurisdictional Issues -- Decentralized Identity Management -- Smart Contract Regulations -- Chapter 10: Future Trends -- Edge Computing -- Decentralized Data Network -- Serverless Computing -- Cloud-Native Applications -- Hybrid Cloud Strategies -- The Future -- Chapter 11: Conclusion -- The Dawn of a Decentralized Future -- Charting a Course Through Decentralized Cloud Solutions -- Embracing the Future: Trends Shaping Web3 and Cloud -- Sailing Through the Web3 Frontier -- Index.

Embark on a journey to business evolution grounded in the real-world experiences and challenges faced by those at the forefront of the Web2 revolution. In a landscape where adaptability is paramount, this book is a guiding light amidst a sea of uncertainty. Crafted by seasoned Web2 professionals, it offers a unique perspective on transitioning from traditional cloud computing to decentralized technologies. Delving beyond theory, this book provides actionable insights and strategies to navigate the complexities of Distributed Ledger Technologies (DLTs). Rather than just discussing the implementation of DLTs, it explores the intricacies of execution, offering tangible guidance to facilitate a seamless transition to the decentralized landscape. Moreover, this book doesn't stop at transition—it's a blueprint for thriving in the Web3 era. By offering strategic perspectives and tactical advice, it equips businesses of all sizes to not only survive but flourish in the decentralized economy. Whether you're a startup poised for disruption or an established enterprise seeking innovation, 'Decentralized Business' empowers you to confidently embrace the future. The time for passive observation is over; the future of business is decentralized, and Decentralized Business is your guide to navigating this evolution. Join the ranks of forward-thinkers shaping tomorrow's economy—secure your copy now and begin the journey of transformation and opportunity.

What You Will Learn Understand the foundational concepts of DLTs and their relevance to Web2 professionals. Review security considerations and best practices for implementing decentralized solutions. Apply strategies for integrating DLTs into existing cloud-based infrastructures.
