

american virtual cloud technologies buyout

american virtual cloud technologies buyout has become a significant topic within the technology and financial sectors, drawing attention from investors, employees, and industry analysts alike. This article provides a deep dive into the buyout process involving American Virtual Cloud Technologies (AVCT), exploring the background of the company, the motivations behind the buyout, its impact on stakeholders, and what the future may hold for AVCT post-transaction. Readers will gain an understanding of the strategic rationale for the buyout, its implications for cloud computing, and how this event fits within broader trends in tech mergers and acquisitions. Whether you are an investor, industry professional, or simply interested in the evolution of cloud technology companies, this comprehensive guide will give you valuable insights. Read on to discover all the essential information about the american virtual cloud technologies buyout.

- Overview of American Virtual Cloud Technologies
- Understanding the Buyout Process
- Key Players and Stakeholders in the AVCT Buyout
- Motivations Behind the Buyout
- Impacts on Investors and Shareholders
- Industry Trends and the Significance of the AVCT Buyout
- Future Outlook for American Virtual Cloud Technologies

Overview of American Virtual Cloud Technologies

American Virtual Cloud Technologies, often abbreviated as AVCT, is a company specializing in cloud-based communications, IT solutions, and managed services. Established to deliver innovative enterprise solutions, AVCT has built a reputation for enhancing collaboration, connectivity, and security for businesses across various industries. The company's portfolio includes unified communications, networking solutions, and cloud migration services, making it a pivotal player in the digital transformation landscape.

AVCT's growth has been fueled by its focus on scalable cloud technology and strategic acquisitions. Operating in a highly competitive and rapidly evolving market, the company has continuously adapted its offerings to meet the changing demands of businesses embracing digital transformation. This adaptability has made AVCT an attractive

candidate for acquisition and buyout activity.

Understanding the Buyout Process

The american virtual cloud technologies buyout refers to the acquisition of AVCT, either by a private equity firm, a strategic investor, or another technology company seeking to expand its footprint in the cloud services market. The buyout process typically involves extensive due diligence, negotiation of terms, and approval by regulatory authorities and shareholders.

The steps in a typical technology company buyout include:

- Initial expression of interest or unsolicited offer
- Confidentiality agreements and data room access
- Due diligence on financials, operations, and technology assets
- Negotiation of purchase price and structure
- Shareholder and regulatory approvals
- Closing and integration planning

In the case of AVCT, the buyout process is being closely monitored due to the company's prominence in cloud technology and its relationships with enterprise clients.

Key Players and Stakeholders in the AVCT Buyout

Several groups are directly involved and impacted by the american virtual cloud technologies buyout. Understanding these stakeholders is essential for grasping the full implications of the transaction.

Company Leadership and Board of Directors

AVCT's executive team and board of directors play a central role in evaluating buyout proposals and negotiating the best terms for the company. Their decisions are guided by fiduciary responsibilities to maximize value for shareholders.

Investors and Shareholders

Institutional investors, venture capitalists, and individual shareholders hold equity stakes in AVCT. Their approval is often required for the buyout to proceed, particularly if the transaction involves a premium on existing share prices.

Employees and Customers

Employees may face uncertainty regarding job security and changes in company culture, while customers look for continuity in service and support. Both groups are vital to the ongoing success of AVCT post-buyout.

Acquiring Entity

The buyer could be a direct competitor, a private equity firm, or a technology conglomerate. Their strategic goals, financial resources, and integration plans will shape the future of AVCT.

Motivations Behind the Buyout

The American Virtual Cloud Technologies buyout is driven by several strategic motivations, both from AVCT's perspective and that of potential acquirers. These motivations are shaped by market dynamics, financial considerations, and technological trends.

- Expansion of cloud service offerings and customer base
- Access to AVCT's proprietary technology and intellectual property
- Synergies leading to cost efficiencies and increased competitiveness
- Financial opportunities, such as undervalued assets or potential for rapid growth
- Desire to consolidate market share in the cloud communications sector

For AVCT, a buyout may provide necessary capital, strategic support, or an exit strategy for early investors. For acquirers, the deal represents a chance to enhance their cloud solutions portfolio and accelerate digital innovation.

Impacts on Investors and Shareholders

Investors and shareholders are often the most immediately affected by the announcement and completion of a buyout. The American Virtual Cloud Technologies buyout can lead to shifts in share price, changes in dividend policies, and opportunities for liquidity events.

Typically, a buyout offer includes a premium over the current stock market value, providing shareholders with an immediate return. However, the final outcome depends on the negotiated terms, the financial health of AVCT, and overall market conditions. Some investors may choose to sell early, while others may hold their shares in anticipation of a higher offer or improved post-buyout performance.

Institutional investors may analyze the long-term strategic fit and potential for value creation, while retail investors often focus on short-term gains. Communication from AVCT's leadership is crucial during this period to manage expectations and provide clarity.

Industry Trends and the Significance of the AVCT Buyout

The American Virtual Cloud Technologies buyout is part of a broader trend of mergers and acquisitions in the cloud computing and technology services sectors. As businesses increasingly migrate to cloud-based infrastructures, larger players seek to acquire innovative companies to stay competitive and meet evolving customer needs.

Some notable industry trends influencing these buyouts include:

- Rapid growth in demand for unified communications and collaboration tools
- Increasing cyber security threats requiring advanced cloud solutions
- Consolidation among managed service providers
- Global expansion of cloud infrastructure and edge computing
- Rising importance of artificial intelligence and automation in cloud offerings

The AVCT buyout reflects these trends and underscores the importance of agility and innovation in the technology sector.

Future Outlook for American Virtual Cloud Technologies

Looking ahead, the future of American Virtual Cloud Technologies will depend on the outcome of the buyout and the strategies implemented by the acquiring entity. If the integration is managed effectively, AVCT could benefit from enhanced resources, broader market reach, and accelerated innovation. Customers may see expanded service offerings and improved support, while employees might gain access to new career development opportunities.

However, successful buyouts also require careful planning to address potential challenges, such as cultural alignment, retention of key talent, and seamless integration of technology platforms. The ongoing evolution of the cloud technology industry will present both risks and opportunities for AVCT as it navigates its next chapter.

Stakeholders will be watching closely as the American Virtual Cloud Technologies buyout unfolds, seeking reassurance that the transaction will deliver on its promises and position AVCT for sustained success in the competitive cloud services arena.

Trending Questions and Answers about American Virtual Cloud Technologies Buyout

Q: What is the American Virtual Cloud Technologies buyout?

A: The American Virtual Cloud Technologies buyout refers to the acquisition of American Virtual Cloud Technologies by another company or investment group, involving the transfer of ownership and control to the acquirer.

Q: Who are the main stakeholders impacted by the AVCT buyout?

A: Key stakeholders include AVCT's shareholders, company leadership, employees, customers, and the acquiring entity.

Q: Why is American Virtual Cloud Technologies being targeted for a buyout?

A: AVCT is attractive due to its cloud-based solutions, proprietary technology, established customer base, and potential for growth in the competitive cloud services market.

Q: How does a buyout benefit AVCT shareholders?

A: Shareholders often receive a premium over the current share price, providing immediate financial returns, though the outcome depends on the negotiated terms.

Q: What are the strategic motivations behind the AVCT buyout?

A: Motivations include expanding market share, accessing innovative technology, achieving cost efficiencies, and leveraging AVCT's customer relationships.

Q: How might employees be affected by the buyout?

A: Employees could experience changes in management, company culture, and job roles, but may also benefit from new growth opportunities and resources.

Q: What industry trends are influencing the American virtual cloud technologies buyout?

A: Trends include rising demand for cloud services, increased focus on cybersecurity, industry consolidation, and the integration of AI and advanced automation.

Q: Will AVCT continue to operate under its brand after the buyout?

A: This depends on the acquiring company's strategy; AVCT may retain its brand or be integrated into the acquirer's existing operations.

Q: What should investors watch for during the buyout process?

A: Investors should monitor official communications, buyout offer terms, regulatory approvals, and the strategic plans of the acquiring entity.

Q: How does the AVCT buyout affect the broader technology sector?

A: The buyout highlights ongoing consolidation in the cloud technology industry and emphasizes the value of innovative cloud-based solutions.

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American Virtual Cloud Technologies Buyout: A Deep Dive into the Acquisition

The tech world is constantly in motion, with mergers and acquisitions shaping the landscape at a dizzying pace. One recent event that sent ripples through the cloud computing sector was the buyout of American Virtual Cloud Technologies (AVCT). This post delves deep into the intricacies of this significant acquisition, examining the players involved, the motivations behind the deal, and its potential implications for the future of cloud services. We'll explore the key aspects of the buyout, analyzing its financial implications and speculating on its long-term effects on the industry. Get ready to gain a comprehensive understanding of the American Virtual Cloud Technologies buyout.

Understanding the Players Involved in the AVCT Buyout

Before diving into the specifics of the acquisition, it's crucial to understand the key players. This section will identify the acquiring company (or companies), highlighting their background, market position, and strategic objectives. We will then profile AVCT itself, examining its history, service offerings, and market share before the buyout. A clear understanding of these players is essential to fully grasp the context and significance of the transaction.

Identifying the Acquirer: Who Bought AVCT?

[Insert Name of Acquiring Company Here]. This section would detail the acquirer's history, market presence (e.g., size, revenue, customer base), and its existing portfolio of cloud services. Specific details about the company's strategies and ambitions should be included, highlighting why they would target AVCT. This should include specifics like market capitalization, recent financial performance, and any prior acquisitions.

American Virtual Cloud Technologies (AVCT): A Pre-Buyout Profile

This segment will furnish a detailed overview of AVCT's pre-acquisition status. This includes its business model, customer base (including notable clients), its technological strengths and weaknesses, and its overall financial health. This detailed profile provides crucial context for understanding the buyout's rationale and potential future trajectories.

The Rationale Behind the American Virtual Cloud Technologies Buyout

Why did the acquiring company choose AVCT? This section examines the strategic drivers behind the acquisition. Were they motivated by AVCT's specific technologies, market share, customer base, or a combination of factors? We'll analyze the potential synergies between the acquirer and AVCT, exploring how the combined entity might benefit from increased scale, expanded market reach, and enhanced technological capabilities.

Synergies and Strategic Fit: A Closer Look

This subsection will delve into the specifics of the synergies. This might include cost reductions through economies of scale, access to new markets or technologies, cross-selling opportunities to existing client bases, or the elimination of competition. A comprehensive analysis of these synergies is crucial for understanding the long-term value creation potential of the deal.

Financial Implications of the AVCT Buyout

This part will examine the financial aspects of the transaction, including the purchase price, financing methods, and expected returns on investment for the acquiring company. We'll discuss the valuation of AVCT and how it compares to industry benchmarks. The impact on shareholder value for both companies will also be considered.

The Future of American Virtual Cloud Technologies Post-Buyout

What does the future hold for the newly acquired entity? This section explores the potential impact of the buyout on the broader cloud computing landscape. Will the acquisition lead to innovation, consolidation, or increased competition? We'll speculate on the potential changes to AVCT's service offerings, pricing strategies, and overall market position.

Potential Impacts on the Cloud Computing Market

Here, we will analyze how this acquisition could reshape the competitive landscape. Will it lead to increased prices, improved services, or a shift in market share? The discussion should also include potential impacts on customers and employees of AVCT.

Conclusion: Analyzing the Long-Term Effects

The American Virtual Cloud Technologies buyout represents a significant development in the dynamic cloud computing market. While the immediate consequences are relatively clear, the long-term implications remain to be seen. Further observation will be necessary to assess the true impact

of this acquisition on the industry, competition, and the overall landscape of cloud services. The success of this acquisition will largely depend on the ability of the acquiring company to integrate AVCT effectively, leverage synergies, and maintain a strong customer base.

FAQs:

1. What was the purchase price of the AVCT buyout? The exact purchase price is [Insert Price if Publicly Available, otherwise state "not yet publicly disclosed"].
2. When did the American Virtual Cloud Technologies buyout occur? The buyout was completed on [Insert Date].
3. Will the AVCT brand name continue to exist? [Insert information if available, otherwise speculate based on typical acquisition practices].
4. What are the anticipated job security implications for AVCT employees? [Address this with available information or informed speculation].
5. How will this acquisition impact the pricing of AVCT's services? [Provide an informed analysis based on available information and market trends].

american virtual cloud technologies buyout: *The North American Auto Industry since NAFTA* Greig Mordue, Dimitry Anastakis, 2024-10-01 The auto sector is North America's most iconic of industries. Since the North American Free Trade Agreement came into existence in 1994, the sector has undergone tremendous change: escalating concerns around climate change, advances in electric and automated vehicles, deindustrialization/reindustrialization, and the rise of low-cost locations as hubs for manufacturing. The North American Auto Industry since NAFTA examines the issues that have preoccupied the development of policy associated with the manufacture of automobiles in North America. The collection addresses the punctuations that have afflicted the industry since NAFTA's implementation as well as the slower, incremental evolutions that have also occurred. Several aspects of automobility and the industry are explored, including but not limited to the Canadian, American, and Mexican automotive sectors and their evolution and interaction under evolving trade regimes. The book analyses issues surrounding labour, technology, trade policy, regional development, the environment, and broader societal impacts of the automobile. It also draws on the expertise of a wide cross-section of industry experts and scholars to provide readers with a deeper understanding of the automotive industry and its central role in North America's economic, business, and political landscape.

american virtual cloud technologies buyout: Microsoft Azure Security Center Yuri Diogenes, Tom Shinder, 2018-06-04 Discover high-value Azure security insights, tips, and operational optimizations This book presents comprehensive Azure Security Center techniques for safeguarding cloud and hybrid environments. Leading Microsoft security and cloud experts Yuri Diogenes and Dr. Thomas Shinder show how to apply Azure Security Center's full spectrum of features and capabilities to address protection, detection, and response in key operational scenarios. You'll learn how to secure any Azure workload, and optimize virtually all facets of modern security, from policies and identity to incident response and risk management. Whatever your role in Azure security, you'll learn how to save hours, days, or even weeks by solving problems in most efficient, reliable ways possible. Two of Microsoft's leading cloud security experts show how to:

- Assess the

impact of cloud and hybrid environments on security, compliance, operations, data protection, and risk management • Master a new security paradigm for a world without traditional perimeters • Gain visibility and control to secure compute, network, storage, and application workloads • Incorporate Azure Security Center into your security operations center • Integrate Azure Security Center with Azure AD Identity Protection Center and third-party solutions • Adapt Azure Security Center's built-in policies and definitions for your organization • Perform security assessments and implement Azure Security Center recommendations • Use incident response features to detect, investigate, and address threats • Create high-fidelity fusion alerts to focus attention on your most urgent security issues • Implement application whitelisting and just-in-time VM access • Monitor user behavior and access, and investigate compromised or misused credentials • Customize and perform operating system security baseline assessments • Leverage integrated threat intelligence to identify known bad actors

american virtual cloud technologies buyout: *Enterprise Cloud Strategy* Barry Briggs, Eduardo Kassner, 2016-01-07 How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book, based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you'll see what makes the cloud so compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive advantage.

american virtual cloud technologies buyout: *The Cloud Computing Book* Douglas Comer, 2021-06-30 The latest textbook from best-selling author Provides a comprehensive introduction to cloud computing

american virtual cloud technologies buyout: *Air Force and Space Digest* , 2014-07

american virtual cloud technologies buyout: Machine Learning and Optimization Models for Optimization in Cloud Punit Gupta, Mayank Kumar Goyal, Sudeshna Chakraborty, Ahmed A Elngar, 2022-02-27 Machine Learning and Models for Optimization in Cloud's main aim is to meet the user requirement with high quality of service, least time for computation and high reliability. With increase in services migrating over cloud providers, the load over the cloud increases resulting in fault and various security failure in the system results in decreasing reliability. To fulfill this requirement cloud system uses intelligent metaheuristic and prediction algorithm to provide resources to the user in an efficient manner to manage the performance of the system and plan for upcoming requests. Intelligent algorithm helps the system to predict and find a suitable resource for a cloud environment in real time with least computational complexity taking into mind the system performance in under loaded and over loaded condition. This book discusses the future improvements and possible intelligent optimization models using artificial intelligence, deep learning techniques and other hybrid models to improve the performance of cloud. Various methods to enhance the directivity of cloud services have been presented which would enable cloud to provide better services, performance and quality of service to user. It talks about the next generation intelligent optimization and fault model to improve security and reliability of cloud. Key Features • Comprehensive introduction to cloud architecture and its service models. • Vulnerability and issues in cloud SAAS, PAAS and IAAS • Fundamental issues related to optimizing the performance in Cloud Computing using meta-heuristic, AI and ML models • Detailed study of optimization techniques, and fault management techniques in multi layered cloud. • Methods to improve reliability and fault in cloud using nature inspired algorithms and artificial neural network. • Advanced study of algorithms using artificial intelligence for optimization in cloud • Method for power efficient virtual machine placement using neural network in cloud • Method for task scheduling using metaheuristic algorithms. • A study of machine learning and deep learning inspired resource allocation algorithm for cloud in fault aware environment. This book aims to create a research interest & motivation for graduates degree or post-graduates. It aims to present a study on

optimization algorithms in cloud for researchers to provide them with a glimpse of future of cloud computing in the era of artificial intelligence.

american virtual cloud technologies buyout: Cloud and Virtual Data Storage

Networking Greg Schulz, 2011-08-26 The amount of data being generated, processed, and stored has reached unprecedented levels. Even during the recent economic crisis, there has been no slow down or information recession. Instead, the need to process, move, and store data has only increased. Consequently, IT organizations are looking to do more with what they have while supporting gr

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Shoshana Zuboff, 2019-01-15 The challenges to humanity posed by the digital future, the first detailed examination of the unprecedented form of power called surveillance capitalism, and the quest by powerful corporations to predict and control our behavior. In this masterwork of original thinking and research, Shoshana Zuboff provides startling insights into the phenomenon that she has named surveillance capitalism. The stakes could not be higher: a global architecture of behavior modification threatens human nature in the twenty-first century just as industrial capitalism disfigured the natural world in the twentieth. Zuboff vividly brings to life the consequences as surveillance capitalism advances from Silicon Valley into every economic sector. Vast wealth and power are accumulated in ominous new behavioral futures markets, where predictions about our behavior are bought and sold, and the production of goods and services is subordinated to a new means of behavioral modification. The threat has shifted from a totalitarian Big Brother state to a ubiquitous digital architecture: a Big Other operating in the interests of surveillance capital. Here is the crucible of an unprecedented form of power marked by extreme concentrations of knowledge and free from democratic oversight. Zuboff's comprehensive and moving analysis lays bare the threats to twenty-first century society: a controlled hive of total connection that seduces with promises of total certainty for maximum profit -- at the expense of democracy, freedom, and our human future. With little resistance from law or society, surveillance capitalism is on the verge of dominating the social order and shaping the digital future -- if we let it.

american virtual cloud technologies buyout: America's Cold War against China

Peter Nolan, 2024-09-09 This book discusses how the USA has launched a new cold war against China. Showing how this New Cold War can only be fully understood by analysing the long-run history of the East and the West, and the fundamental differences between the Old and the New Cold Wars, this book outlines how the New Cold War focuses on issues connected with China's territorial integrity: Xinjiang, the South China Sea, Hong Kong, Taiwan, and the closely connected conflict over semiconductors. It analyses the way in which China has responded to US-led Western aggression by following the approach suggested by Confucius: instead of 'returning aggression with kindness' or 'returning aggression with aggression', China has 'returned aggression with firmness'. The book argues that the United States' effort to establish hegemony over Eurasia has failed and that, in the face of this reality, there is no choice for the USA other than to cooperate with China in order to resolve the existential issues facing the human species. Demonstrating how US-led aggression has been rendered ineffective, this book will be a valuable resource to students and scholars of international relations and politics, including those in both China and the USA.

american virtual cloud technologies buyout: Funding a Revolution

National Research Council, Computer Science and Telecommunications Board, Committee on Innovations in Computing and Communications: Lessons from History, 1999-02-11 The past 50 years have witnessed a revolution in computing and related communications technologies. The contributions of industry and university researchers to this revolution are manifest; less widely recognized is the major role the federal government played in launching the computing revolution and sustaining its momentum. Funding a Revolution examines the history of computing since World War II to elucidate the federal government's role in funding computing research, supporting the education of computer scientists and engineers, and equipping university research labs. It reviews the economic rationale for government support of research, characterizes federal support for computing research, and

summarizes key historical advances in which government-sponsored research played an important role. *Funding a Revolution* contains a series of case studies in relational databases, the Internet, theoretical computer science, artificial intelligence, and virtual reality that demonstrate the complex interactions among government, universities, and industry that have driven the field. It offers a series of lessons that identify factors contributing to the success of the nation's computing enterprise and the government's role within it.

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american virtual cloud technologies buyout: *Technology Guide* Hans-Jörg Bullinger, 2009-05-10 Use this technology guide to find descriptions of today's most essential global technologies. Clearly structured and simply explained, the book's reference format invites even the casual reader to explore the stimulating innovative ideas it contains.

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and locate, analyze, and present empirical data relevant to social and political issues. Finally, the book lists a variety of classroom resources, including the programming languages Scratch (free to all) and CodeSters (free to teachers). An accompanying website contains the executable programs used in the book's activities.

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american virtual cloud technologies buyout: *Cloud Computing* Rajkumar Buyya, James Broberg, Andrzej M. Goscinski, 2010-12-17 The primary purpose of this book is to capture the state-of-the-art in Cloud Computing technologies and applications. The book will also aim to identify potential research directions and technologies that will facilitate creation a global market-place of cloud computing services supporting scientific, industrial, business, and consumer applications. We expect the book to serve as a reference for larger audience such as systems architects, practitioners, developers, new researchers and graduate level students. This area of research is relatively recent, and as such has no existing reference book that addresses it. This book will be a timely contribution to a field that is gaining considerable research interest, momentum, and is expected to be of increasing interest to commercial developers. The book is targeted for professional computer science developers and graduate students especially at Masters level. As Cloud Computing is recognized as one of the top five emerging technologies that will have a major impact on the quality of science and society over the next 20 years, its knowledge will help position our readers at the forefront of the field.

american virtual cloud technologies buyout: *Construction 4.0* Anil Sawhney, Michael Riley, Javier Irizarry, 2020-02-06 Modelled on the concept of Industry 4.0, the idea of Construction 4.0 is based on a confluence of trends and technologies that promise to reshape the way built environment assets are designed, constructed, and operated. With the pervasive use of Building Information Modelling (BIM), lean principles, digital technologies, and offsite construction, the industry is at the cusp of this transformation. The critical challenge is the fragmented state of teaching, research, and professional practice in the built environment sector. This handbook aims to overcome this fragmentation by describing Construction 4.0 in the context of its current state, emerging trends and technologies, and the people and process issues that surround the coming transformation. Construction 4.0 is a framework that is a confluence and convergence of the following broad themes discussed in this book: Industrial production (prefabrication, 3D printing and assembly, offsite manufacture) Cyber-physical systems (actuators, sensors, IoT, robots, cobots, drones) Digital and computing technologies (BIM, video and laser scanning, AI and cloud computing, big data and data analytics, reality capture, Blockchain, simulation, augmented reality, data standards and interoperability, and vertical and horizontal integration) The aim of this handbook is to describe the Construction 4.0 framework and consequently highlight the resultant processes and practices that allow us to plan, design, deliver, and operate built environment assets more effectively and

efficiently by focusing on the physical-to-digital transformation and then digital-to-physical transformation. This book is essential reading for all built environment and AEC stakeholders who need to get to grips with the technological transformations currently shaping their industry, research, and teaching.

american virtual cloud technologies buyout: *Cloud Computing* Lizhe Wang, Rajiv Ranjan, Jinjun Chen, Boualem Benatallah, 2017-12-19 Cloud computing has created a shift from the use of physical hardware and locally managed software-enabled platforms to that of virtualized cloud-hosted services. Cloud assembles large networks of virtual services, including hardware (CPU, storage, and network) and software resources (databases, message queuing systems, monitoring systems, and load-balancers). As Cloud continues to revolutionize applications in academia, industry, government, and many other fields, the transition to this efficient and flexible platform presents serious challenges at both theoretical and practical levels—ones that will often require new approaches and practices in all areas. Comprehensive and timely, *Cloud Computing: Methodology, Systems, and Applications* summarizes progress in state-of-the-art research and offers step-by-step instruction on how to implement it. Summarizes Cloud Developments, Identifies Research Challenges, and Outlines Future Directions Ideal for a broad audience that includes researchers, engineers, IT professionals, and graduate students, this book is designed in three sections: Fundamentals of Cloud Computing: Concept, Methodology, and Overview Cloud Computing Functionalities and Provisioning Case Studies, Applications, and Future Directions It addresses the obvious technical aspects of using Cloud but goes beyond, exploring the cultural/social and regulatory/legal challenges that are quickly coming to the forefront of discussion. Properly applied as part of an overall IT strategy, Cloud can help small and medium business enterprises (SMEs) and governments in optimizing expenditure on application-hosting infrastructure. This material outlines a strategy for using Cloud to exploit opportunities in areas including, but not limited to, government, research, business, high-performance computing, web hosting, social networking, and multimedia. With contributions from a host of internationally recognized researchers, this reference delves into everything from necessary changes in users' initial mindset to actual physical requirements for the successful integration of Cloud into existing in-house infrastructure. Using case studies throughout to reinforce concepts, this book also addresses recent advances and future directions in methodologies, taxonomies, IaaS/SaaS, data management and processing, programming models, and applications.

american virtual cloud technologies buyout: *Software-Defined Data Infrastructure Essentials* Greg Schulz, 2017-06-14 *Software-Defined Data Infrastructures Essentials* provides fundamental coverage of physical, cloud, converged, and virtual server storage I/O networking technologies, trends, tools, techniques, and tradecraft skills. From webscale, software-defined, containers, database, key-value store, cloud, and enterprise to small or medium-size business, the book is filled with techniques, and tips to help develop or refine your server storage I/O hardware, software, and services skills. Whether you are new to data infrastructures or a seasoned pro, you will find this comprehensive reference indispensable for gaining as well as expanding experience with technologies, tools, techniques, and trends. We had a front row seat watching Greg present live in our education workshop seminar sessions for ITC professionals in the Netherlands material that is in this book. We recommend this amazing book to expand your converged and data infrastructure knowledge from beginners to industry veterans. —Gert and Frank Brouwer, Brouwer Storage Consultancy *Software-Defined Data Infrastructures Essentials* provides the foundational building blocks to improve your craft in several areas including applications, clouds, legacy, and more. IT professionals, as well as sales professionals and support personnel, stand to gain a great deal by reading this book.—Mark McSherry, Oracle Regional Sales Manager Looking to expand your data infrastructure IQ? From CIOs to operations, sales to engineering, this book is a comprehensive reference, a must read for IT infrastructure professionals, beginners to seasoned experts.—Tom Becchetti, Advisory Systems Engineer Greg Schulz has provided a complete 'toolkit' for storage management along with the background and framework for the storage or data infrastructure

professional or those aspiring to become one.—Greg Brunton, Experienced Storage and Data Management Professional

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american virtual cloud technologies buyout: Digitalization of Higher Education using Cloud Computing S. L. Gupta, Nawal Kishor, Niraj Mishra, Sonali Mathur, Utkarsh Gupta, 2021-12-28 Digitalization of Higher Education using Cloud Computing: Implications, Risk, and Challenges provides an insight into the latest technology and tools being used to explore learning in Higher Educational Institutions (HEIs). Cloud computing, being an up-and-coming technology, integrates with academia and industry, thereby enhancing the quality of education. The opportunities and challenges faced by HEIs in recent times due to technological disruptions have forced both academia and industry to realign their strategies for survival and growth. With the acceleration of cloud computing in higher education, it has now become imperative for educators to constantly upskill and reskill in order to meet the requirements of the future of work, particularly in the digital age. Technological advancement is an unstoppable wave and the lack of relevant skills to handle the disruptions in higher education will become a huge challenge if not addressed promptly. This is the new phase of Education 4.0 where HEIs are aligning themselves using cloud computing implications, and thus are preparing both faculties and students to embrace the changes happening in the teaching and learning processes. This book focuses on multi-faceted strategies to be adopted by HEIs to deal with the emerging issues related to teaching-learning processes using cloud computing, technological interventions, curriculum overhaul, experiential learning, multi-disciplinary approaches, and continuous innovations and digitalization. The book offers comprehensive coverage of many academic areas, with the most essential topics including: • Pedagogies in digital education using a cloud environment • Risks and challenges in cloud platforms for teaching and learning • Collaborative and group learning in a cloud environment • Enhancing quality of education using e-learning methodologies The sections in this book are Cloud Enabled Digitalization of Higher Education and Innovations and Applications of Digitalization of Higher Education: A Cloud Perspective. The book will be useful for undergraduates, graduates, academicians, scholars, and policy makers. It will help readers acquire skills for a smooth transition from face-to-face teaching to cloud-based teaching.

american virtual cloud technologies buyout: Philosophy of Digital Currencies Ugochukwu Chigoziem Ikpeazu, 2023-02-23 Current systems are failing the poor because these systems are unable to provide the financial inclusion needed for basic subsistence and commerce, which in turn would drive micro- and macro-economic growth. This book introduces the reader to a new way of thinking about how value can be created, captured, measured, and understood, economically and financially, and within the context of social contracts. It underscores the need to revisit such models through technological advancements, namely, Industrial Revolution 4.0, in order to solve pressing global issues such as economic inclusion and poverty eradication. The book proposes that for humanity to make the leap forward and for any real sustainable development to occur, the world needs a disruptive approach to value creation using currency systems, considering that currencies underpin value exchange. This disruption will result in a level of decentralization that facilitates peer-to-peer value exchange and drives financial inclusion, all of which should be underscored by a new, digital social contract. The author asserts that a time-based digital currency could address

these issues by creating a new and truly inclusive currency model that allows economies to gain more value than previously possible. In addition, by leveraging 4IR technologies, a currency system can be designed where each unit of money accurately reflects the context and range of socio-economic factors that influence each human interaction. This book is aimed at futurists, technologists, researchers, policymakers, and anyone that is curious about how technology could make a difference in our collective futures. It cuts across a range of subject areas from economics, finance, philosophy, innovation to social development and takes an interdisciplinary approach to present a logical framework and theoretical foundation for the monetization of time as a digital currency.

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applications using open source cloud software solutions and commercial cloud services. They then review future research and developments in data, computation, concurrency, and spatiotemporal intensities of geosciences and how cloud service can be leveraged to meet the challenges. They also introduce research directions from the aspects of technology, vision, and social dimensions. *Spatial Cloud Computing: A Practical Approach* a common workflow for deploying geoscience applications and provides references to the concepts, technical details, and operational guidelines of cloud computing. These features and more give developers, geoscientists, and IT professionals the information required to make decisions about how to select and deploy cloud services.

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The authoritative account of the rise of Amazon and its intensely driven founder, Jeff Bezos, praised by the Seattle Times as the definitive account of how a tech icon came to life. Amazon.com started off delivering books through the mail. But its visionary founder, Jeff Bezos, wasn't content with being a bookseller. He wanted Amazon to become the everything store, offering limitless selection and seductive convenience at disruptively low prices. To do so, he developed a corporate culture of relentless ambition and secrecy that's never been cracked. Until now. Brad Stone enjoyed unprecedented access to current and former Amazon employees and Bezos family members, giving readers the first in-depth, fly-on-the-wall account of life at Amazon. Compared to tech's other elite innovators -- Jobs, Gates, Zuckerberg -- Bezos is a private man. But he stands out for his restless pursuit of new markets, leading Amazon into risky new ventures like the Kindle and cloud computing, and transforming retail in the same way Henry Ford revolutionized manufacturing. The Everything Store is the revealing, definitive biography of the company that placed one of the first and largest bets on the Internet and forever changed the way we shop and read.

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Introbooks, 2020-04-07 In these highly competitive times and with so many technological advancements, it is impossible for any industry to remain isolated and untouched by innovations. In this era of digital economy, the banking sector cannot exist and operate without the various digital tools offered by the ever new innovations happening in the field of Artificial Intelligence (AI) and its sub-set technologies. New technologies have enabled incredible progression in the finance industry. Artificial Intelligence (AI) and Machine Learning (ML) have provided the investors and customers with more innovative tools, new types of financial products and a new potential for growth. According to Cathy Bessant (the Chief Operations and Technology Officer, Bank of America), AI is not just a technology discussion. It is also a discussion about data and how it is used and protected. She says, In a world focused on using AI in new ways, we're focused on using it wisely and responsibly.

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