
Cloud Computing Architecture Software Engineering Institute

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Economics-Driven

Software
Architecture
Software
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Big Data and the
Cloud
Web services are
leading to the use

of more packaged
software either as
an internal service
or an external
service available
over the Internet.
These services,
which will be

connected together within these technical detail .

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information oriented leadership

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technical detail is Jargon free, highly architecture and

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The leadership that then leads into depth details of

opportunities increasing processes with

plenty of

examples. Cloud Native Architecture and Design begins by explaining the fundamentals of cloud-native architecture and services, what cloud principles and patterns to use, and details of designing a cloud-native element. The book progresses to cover the details of how IT systems can modernize to embrace cloud-native architecture, and also provides details of various enterprise assessment techniques to decide what systems can move and cannot move into the cloud. Architecting and

designing a cloud-native system isn't possible without modernized software engineering principles, the culture of automation, and the culture of innovation. As such, this book covers the details of cloud-native software engineering methodologies, and process, and how to adopt an automated governance approach across enterprises with the adoption of artificial intelligence. Finally, you need your cloud-native applications to run efficiently; this section covers the details of

containerization, orchestration, and virtualization in the public, private, and hybrid clouds. After reading this book, you will have familiarity with the many concepts related to cloud-native and understand how to design and develop a successful cloud-native application. Technologies and practices may change over time, but the book lays a strong foundation on which you can build successful cloud-native systems. What You Will Learn Discover cloud-native principles and patterns, and how you can leverage them to

solve your business problems Gain the techniques and concepts you need to adapt to design a cloud-native application Use assessment techniques and tools for IT modernization Apply cloud-native engineering principles to the culture of automation and culture of innovation Harness the techniques and tools to run your cloud-native applications and automate infrastructure Operate your cloud-native applications by using AI techniques and zero operation techniques Who

This Book Is For Software architects, leaders, developers, engineers, project managers, and students. *Modern Software Engineering Methodologies for Mobile and Cloud Environments* IGI Global Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools,

including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental

principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively. Make informed decisions by identifying the strengths and weaknesses of different tools. Navigate the trade-offs around consistency, scalability, fault tolerance, and

complexity. Understand the distributed systems research upon which modern databases are built. Peek behind the scenes of major online services, and learn from their architectures. Cloud Computing IGI Global Cloud computing has become integrated into all sectors, from business to quotidian life. Since it has revolutionized modern computing, there is a need for

updated research related to the architecture and frameworks necessary to maintain its efficiency. The Handbook of Research on End-to-End Cloud Computing Architecture Design provides architectural design and implementation studies on cloud computing from an end-to-end approach, including the latest industrial

works and extensive research studies of cloud computing. This handbook enumerates deep dive and systemic studies of cloud computing from architecture to implementation. This book is a comprehensive publication ideal for programmers, IT professionals, students, researchers, and engineers. Web Services, Service-Oriented

Architectures, and Cloud Computing Morgan Kaufmann As technology continues to evolve, the popularity of mobile computing has become inherent within today's society. With the majority of the population using some form of mobile device, it has become increasingly important to develop more efficient cloud platforms. Modern Software Engineering Methodologies for Mobile and Cloud Environments investigates emergent trends and research on innovative software platforms in mobile and cloud computing. Featuring state-of-the-art software engineering methods, as well as new techniques being utilized in the field,

this book is a pivotal reference source for professionals, researchers, practitioners, and students interested in mobile and cloud environments. Relating System Quality and Software Architecture IGI Global This book presents the latest research on Software Engineering Frameworks for the Cloud Computing Paradigm, drawn from an international selection of researchers and practitioners. The book offers both a discussion of relevant software

engineering approaches and practical guidance on enterprise-wide software deployment in the cloud environment, together with real-world case studies. Features: presents the state of the art in software engineering approaches for developing cloud-suitable applications; discusses the impact of the cloud computing paradigm on software engineering; offers guidance and best practices for students and practitioners; examines the stages

of the software development lifecycle, with a focus on the requirements engineering and testing of cloud-based applications; reviews the efficiency and performance of cloud-based applications; explores feature-driven and cloud-aided software design; provides relevant theoretical frameworks, practical approaches and future research directions. Cloud Computing Pearson Education This book describes the landscape of cloud

computing from first principles, leading the reader step-by-step through the process of building and configuring a cloud environment. The book not only considers the technologies for designing and creating cloud computing platforms, but also the business models and frameworks in real-world implementation of cloud platforms. Emphasis is placed on “learning by doing,” and readers are encouraged to experiment with a range of different tools and

approaches. Topics and features: includes review questions, hands-on exercises, study activities and discussion topics throughout the text; demonstrates the approaches used to build cloud computing infrastructures; reviews the social, economic, and political aspects of the on-going growth in cloud computing use; discusses legal and security concerns in cloud computing; examines techniques for the appraisal of financial investment into cloud computing;

identifies areas for further research within this rapidly-moving field. Migrating Legacy Applications: Challenges in Service Oriented Architecture and Cloud Computing Environments BoD – Books on Demand Introduces the topic of cloud computing with an emphasis on the trustworthiness of cloud computing systems and services This book describes the scientific basis of cloud computing, explaining the ideas, principles, and architectures of cloud computing as well the different types of clouds and the services they provide. The text reviews several cloud computing platforms, including Microsoft

Azure, Amazon, Oracle, Google, HP, IBM, Salesforce, and Kaavo. The author addresses the problem of trustworthiness in cloud computing and provides methods to improve the security and privacy of cloud applications. The end-of-chapter exercises and supplementary material on the book's companion website will allow readers to grasp the introductory and advanced level concepts of cloud computing. Examines cloud computing platforms such as Microsoft Azure, Amazon, Oracle, Google, HP, IBM, Salesforce, and Kaavo Analyzes the use of aspect-oriented programming (AOP) for refactoring cloud services and improving the security and privacy of cloud

applications Contains practical examples of cloud computing, test questions, and end-of-chapter exercises Includes presentations, examples of cloud projects and other teaching resources at the author ' s website (<http://www.vladimirov.org/cloud>) Trustworthy Cloud Computing is written for advanced undergraduate and graduate students in computer science, data science, and computer engineering as well as software engineers, system architects, system managers, and software developers new to cloud computing. Trustworthy Cloud Computing IGI Global Explores cloud computing, breaking down the concepts, models, mechanisms,

and architectures of this technology while allowing for the financial assessment of resources and how they compare to traditional storage systems. Refactoring for Software Design Smells BPB Publications Running a dedicated instance of a software application can be burdensome to a customer if it involves a large amount of memory and processing overhead or a licensing fee or if the customer is a small company. Multitenancy (MT) architectures (MTAs) allow for multiple customers (i.e., tenants) to be consolidated into the same operational system, hence reducing the overhead via amortization over

several customers. Lately, MTAs are drawing increasing attention because MT is regarded as an essential attribute of cloud computing and its new software delivery model, Software as a Service. In a moment of debate about the coexistence between architecture and agility, we introduce in this chapter a multitenancy, multitarget architecture (MT2A). MT2As are an evolution of traditional MTAs that reduce the various overhead by providing multiple services instead of a single service. In MT2As, there are new components added to the corresponding MTAs to manage the (now possibly) multiple services. MT2A is intended to

support traditional agile development, as well as rapid deployment, by enabling the reuse of common components of the architecture. In this chapter, we also present an implementation of the architecture through an MT2 system called Globalgest.

Software Reuse in the Emerging Cloud Computing Era Springer Science & Business Media

"This book clarifies the present fast-advancing literature of the current state of art and knowledge in the areas of the development and reuse of reusable assets in emerging software systems and applications"--

Provided by publisher. Agile Software Architecture Elsevier Due to a rapidly growing number of devices and communications, cloud computing has begun to fall behind on its ability to adequately process today ' s technology. Additionally, companies have begun to look for solutions that would help reduce their infrastructure costs and improve profitability. Fog computing, a paradigm that extends cloud computing and services to the edge of the network, has presented itself as a viable solution and

cost-saving method. However, before businesses can implement this new method, concerns regarding its security, privacy, availability, and data protection must be addressed. Advancing Consumer-Centric Fog Computing Architectures is a collection of innovative research on the methods and applications of fog computing in technological, business, and organizational dimensions. Thoroughly examining fog computing with respect to issues of management, trust and privacy, governance, and interoperability, this

publication highlights a range of topics including access control mechanism, data confidentiality, and service-oriented architecture. This book is ideally designed for academicians, researchers, software developers, IT professionals, policymakers, technology designers, graduate-level students, managers, and business owners.

The Significant Concepts of Cloud Computing Newnes

This book presents the latest research on Software Engineering Frameworks for the Cloud Computing Paradigm, drawn from an international selection of researchers and

practitioners. The book offers both a discussion of relevant software engineering approaches and practical guidance on enterprise-wide software deployment in the cloud environment, together with real-world case studies. Features: presents the state of the art in software engineering approaches for developing cloud-suitable applications; discusses the impact of the cloud computing paradigm on software engineering; offers guidance and best practices for students and practitioners; examines the stages of the software development lifecycle, with a focus on the requirements engineering and testing of cloud-based applications; reviews

the efficiency and performance of cloud-based applications; explores feature-driven and cloud-aided software design; provides relevant theoretical frameworks, practical approaches and future research directions.

Enterprise Software Architecture and Design John Wiley & Sons

Computer Systems Architecture provides IT professionals and students with the necessary understanding of computer hardware. It addresses the ongoing issues related to computer hardware and discusses the solutions supplied by the industry. The book describes trends in computing solutions that led to the current available infrastructures, tracing

the initial need for computers to recent concepts such as the Internet of Things. It covers computers' data representation, explains how computer architecture and its underlying meaning changed over the years, and examines the implementations and performance enhancements of the central processing unit (CPU). It then discusses the organization, hierarchy, and performance considerations of computer memory as applied by the operating system and illustrates how cache memory significantly improves performance. The author proceeds to explore the bus system, algorithms for ensuring data integrity, input and output (I/O)

components, methods for performing I/O, various aspects relevant to software engineering, and nonvolatile storage devices, such as hard drives and technologies for enhancing performance and reliability. He also describes virtualization and cloud computing and the emergence of software-based systems' architectures. Accessible to software engineers and developers as well as students in IT disciplines, this book enhances readers' understanding of the hardware infrastructure used in software engineering projects. It enables readers to better optimize system usage by focusing on the principles used in

hardware systems design and the methods for enhancing performance. **Cloud Computing Patterns "O'Reilly Media, Inc."** In the era of Internet of Things and with the explosive worldwide growth of electronic data volume, and associated need of processing, analysis, and storage of such humongous volume of data, it has now become mandatory to exploit the power of massively parallel architecture for fast computation. **Cloud computing**

provides a cheap source of such computing framework for large volume of data for real-time applications. It is, therefore, not surprising to see that cloud computing has become a buzzword in the computing fraternity over the last decade. This book presents some critical applications in cloud frameworks along with some innovation design of algorithms and architecture for deployment in cloud environment. It is a valuable source of

knowledge for researchers, engineers, practitioners, and graduate and doctoral students working in the field of cloud computing. It will also be useful for faculty members of graduate schools and universities. Software Engineering in the Era of Cloud Computing John Wiley & Sons Managing Trade-Offs in Adaptable Software Architectures explores the latest research on adapting large complex systems to changing requirements. To

be able to adapt a system, engineers must evaluate different quality attributes, including trade-offs to balance functional and quality requirements to maintain a well-functioning system throughout the lifetime of the system. This comprehensive resource brings together research focusing on how to manage trade-offs and architect adaptive systems in different business contexts. It presents state-of-the-art techniques, methodologies, tools, best practices, and guidelines for

developing adaptive systems, and offers guidance for future software engineering research and practice. Each contributed chapter considers the practical application of the topic through case studies, experiments, empirical validation, or systematic comparisons with other approaches already in practice. Topics of interest include, but are not limited to, how to architect a system for adaptability, software architecture for self-adaptive systems,

understanding and balancing the trade-offs involved, architectural patterns for self-adaptive systems, how quality attributes are exhibited by the architecture of the system, how to connect the quality of a software architecture to system architecture or other system considerations, and more. Explains software architectural processes and metrics supporting highly adaptive and complex engineering validation, verification, security, and

quality assurance in system design
Discusses domain-specific software engineering issues for cloud-based, mobile, context-sensitive, cyber-physical, ultra-large-scale/internet-scale systems, mash-up, and autonomic systems Includes practical case studies of complex, adaptive, and context-critical systems
The Enterprise Cloud Springer Science & Business Media
Special Features: - SOA is an upcoming and hot topic nowadays. Besides the corporate work, SOA is being introduced as an

elective paper in major universities. First book that focuses on architecture, design and development of enterprise and cloud applications based on SOA. Caters to the needs of students who need to understand the concepts of SOA and cloud computing; architects, designers and developers who build SOA-based enterprise and cloud applications and CXOs and Project managers who make decisions on undertaking SOA projects involving enterprise and cloud applications. Provides insights on concepts of SOA and cloud computing that can be put to

immediate use for creating transformational impact. Includes detailed description (and code) to enable architects, designers and developers to build SOA applications on Java and .NET platforms. Offers a comprehensive and structured set of reference models and techniques for custom-built enterprise and cloud applications that can be readily applied by system integration companies and end-user organizations to address customer needs. Presents both concepts and technology detail in addressing the IT challenges faced by organizations on

their business transformation journey with SOA and cloud computing. About The Book: This book is targeted at practitioners who wish to get insights into developing SOA solutions. Software architects, designers, developers, project managers and consultants can benefit significantly from this book. At the same time, beginners can also get an understanding of the concepts and how SOA based solutions are developed in practice today. Strawman architecture for Enterprise-wide SOA and reference architectures for SOA based

applications can serve included. 1) to be very convenient starting points for anyone wanting to recommend or develop SOA solution. Designers can follow the methodologies outlined for service design in this book and come up with services model for their applications. The best practices identified through executing a number of SOA projects, provide the much needed guidance to project teams. New to the second edition: Keeping in mind the feedback received and the changes taking place in technology and in IT industry, the following enhancements are

Introduce Software Engineering as Chapter 1 - One of the points given as feedback for the first edition is that there are several practicing developers, testers and project/program managers who are interested in SOA but do not have the necessary background or experience in Software Engineering. Accordingly, Software Engineering Principles has been added as the first chapter. 2) Cloud Computing - Since the launch of the book, Cloud computing and services based on the Cloud (internet cloud) have emerged

as major trends related to deploying and leveraging of services. Therefore, separate chapters on Cloud Computing Concepts, Cloud Computing Platforms and SOA with Cloud Services have been included. Cloud Computing CRC Press Economics-driven Software Architecture presents a guide for engineers and architects who need to understand the economic impact of architecture design decisions: the long term and strategic viability, cost-effectiveness, and sustainability of applications and systems. Economics-driven software development can increase quality, productivity, and

profitability, but comprehensive knowledge is needed to understand the architectural challenges involved in dealing with the development of large, architecturally challenging systems in an economic way. This book covers how to apply economic considerations during the software architecting activities of a project. Architecture-centric approaches to development and systematic evolution, where managing complexity, cost reduction, risk mitigation, evolvability, strategic planning and long-term value creation are among the major drivers for adopting such approaches. It assists the objective assessment of the lifetime costs and

benefits of evolving systems, and the identification of legacy situations, where architecture or a component is indispensable but can no longer be evolved to meet changing needs at economic cost. Such consideration will form the scientific foundation for reasoning about the economics of nonfunctional requirements in the context of architectures and architecting. Familiarizes readers with essential considerations in economic-informed and value-driven software design and analysis Introduces techniques for making value-based software architecting decisions Provides readers a better understanding of

the methods of economics-driven architecting
Guide to Cloud Computing IGI Global
This important text provides a single point of reference for state-of-the-art cloud computing design and implementation techniques. The book examines cloud computing from the perspective of enterprise architecture, asking the question; how do we realize new business potential with our existing enterprises? Topics and features: with a Foreword by Thomas Erl;

contains contributions from an international selection of preeminent experts; presents the state-of-the-art in enterprise architecture approaches with respect to cloud computing models, frameworks, technologies, and applications; discusses potential research directions, and technologies to facilitate the realization of emerging business models through enterprise architecture approaches; provides relevant theoretical frameworks, and the latest empirical

research findings. Cloud Architecture Patterns Springer Nature
Unleash the power of cloud computing using Azure, AWS and Apache Hadoop
Key features
Provides a sound understanding of the Cloud computing concepts, architecture and its applications
Explores the practical benefits of Cloud computing services and deployment models in details
Cloud Computing Architecture, Cloud Computing Life Cycle (CCLC), Load balancing approach, Mobile Cloud Computing (MCC), Google App Engine (GAE) Virtualization and Service-Oriented Architecture (SOA)
Cloud Computing applications - Google

Apps, Dropbox Cloud and Apple iCloud and its uses in various sectors - Education, Healthcare, Politics, Business, and Agriculture
Cloud Computing platforms - Microsoft Azure, Amazon Web Services (AWS), Open Nebulla, Eucalyptus, Open Stack, Nimbus and The Apache Hadoop Architecture
Adoption of Cloud Computing technology and strategies for migration to the cloud
Cloud computing adoption case studies - Sub-Saharan Africa and India
Chapter-wise Questions with Summary and Examination Model
Question papers Description
With the advent of internet, there is a complete paradigm shift in the manner we

comprehend computing. Need to enable ubiquity, convenient and on-demand access to resources in highly scalable and resilient environments that can be remotely accessed, gave birth to the concept of Cloud computing. The acceptance is so rapid that the notion influences sophisticated innovations in academia, industry and research world-wide and hereby change the landscape of information technology as we thought of. Through this book, the authors tried to incorporate core principles and basic notion of cloud computing in a step-by-step manner and tried to emphasize on key concepts for clear and thorough insight into

the subject. This book begins with the fundamentals of cloud computing, its service and deployment models, architecture, as well as applications and platforms. It presents some key enterprise strategies and models for the adoption of and migration to cloud. Privacy and security issues and challenges also form a major part of our discussion in the book as well as case studies of cloud computing adoption in Sub-Saharan Africa and India. The book concludes with a discussion of several advanced topics, such as Amazon Web Services (AWS), Open Nebula, Microsoft Azure, Apache Hadoop and Google App Engine (GAE). What will you learn Learn about the

Importance of Cloud Computing in Current Digital Era Understand the Core concepts and Principles of Cloud Computing with practical benefits Learn about the Cloud Deployment models and Services Discover how Cloud Computing Architecture works Learn about the Load balancing approach and Mobile Cloud Computing (MCC) Learn about the Virtualization and Service-Oriented Architecture (SOA) concepts Learn about the various Cloud Computing applications, Platforms and Security concepts Understand the adoption Cloud Computing technology and strategies for migration to the cloud Case Studies for Cloud

computing adoption - Sub-Saharan Africa and India Who this book is for This book is intended for students of B.E., B.Tech., B.Sc., M.Sc., M.E., and M.Tech. as a text book. The content is designed keeping in mind the benchmarked curriculum of various universities (both National and International). The book covers not only the technical details of how cloud works but also exhibits the strategy, technical design, and in-depth knowledge required to migrate existing applications to the cloud. Therefore, it makes it relevant for the beginners who want to learn cloud computing right from the foundation. Aspiring Cloud Computing Researchers

Instructors, Academicians and Professionals, if they are familiar with cloud, can use this book to learn various open source cloud computing tools, applications, technologies. They will also get a flavor of various international certification exams available. Table of contents
1. Foundation of Cloud Computing
2. Cloud Services and Deployment Models
3. Cloud Computing Architecture
4. Virtualization Technology
5. Service Oriented Architecture
6. Cloud Security and Privacy
7. Cloud Computing Applications
8. Cloud Computing Technologies, Platform and Services
9. Adoption of Cloud Computing
10. Model Paper 111. Model

Paper 212. Model Paper 313. Model Paper 4 About the author Kamal Kant Hiran is working as Associate Professor & Head IT in the BlueCrest University College, Liberia, West Africa as well as Research Fellow, Aalborg University, Copenhagen, Denmark. He has rich experience of 14+ years as an academician and researcher in Asia, Africa and Europe. His research interests include Cloud Computing adoption theories and framework, Internet of Things (IoT) and Digital Image and Video Processing. He has several awards on his credit such as International travel grant for Germany from ITS Europe, Gold Medal Award in

M. Tech (ICT), IEEE Ghana Section Award, IEEE Senior Member Recognition, IEEE Student branch award and Best Research paper award from the University of Gondar, Ethiopia. He has published research papers in peer-reviewed international journals and conferences. He is Reviewer and Editorial board member of various reputed International Journals in Elsevier, Springer, IEEE, Bentham Science, IGI Global, IJSET, IJTEE, IJSTR and IJERT. He is the active member in organizing many international seminars, workshops and conferences in India, Ghana, Liberia, Denmark, Jordan and Ethiopia. His website: <http://www.kamalhiran.in> His LinkedIn profile:

<https://www.linkedin.com/in/kamal-kant-hiran-4553b643> Ruchi Doshi is having more than 10 years of academic, research and software development experience in Asia and Africa. She is working as Registrar in the BlueCrest University College, Liberia, West Africa and also worked with BlueCrest University College, Ghana; Amity University, India & Trimax IT Infrastructure & Services as software engineer. She is interested in the field of Cloud computing, Computer vision, Artificial Intelligence and latest technology used in the higher education. She has published research papers in peer-reviewed international journals and conferences. She is

Reviewer, Advisor, Ambassador & Editorial board member of various reputed International Journals and Conferences such as MIR Labs, USA, IEEE W4S, IJCS and IJERT. She is the active member in organizing many international events in India, Ghana, and Liberia. Her LinkedIn profile: <https://www.linkedin.com/in/ruchi-doshi-96bb63b4> Dr. Fagbola Temitayo is currently a Post-Doctoral Fellow (PDF) at Durban University of Technology, South Africa and an Assistant Professor in the Department of Computer Science, Federal University, Oye-Ekiti, Nigeria with over 10 years of proven teaching and research experience. He bagged a Ph.D., M.Sc and

B.Tech degrees in Computer Science with strong research interests in cloud computing ecosystem, deep learning, computational intelligence, social media big-data analytics, information security, decision support system and video processing. Dr Fagbola is a member of the South African Institute of Computer Scientists and Information Technologists (SAICSIT), Asian Council of Science Editors (ACSE), Machine Intelligence Institute of Africa (MIIA), Computer Professionals (Registration Council) of Nigeria (CPN), the International Association of Engineers (IAENG) and DataHack4FI in Africa. He has over 50

refereed publications in referred international journals and conference proceedings to his credit and currently serves as a reviewer for over 15 reputable international journals. He is also a recipient of the ACM FAT's grant in November 2018. His LinkedIn profile: <https://www.linkedin.com/in/temitayo-fagbola-5941a2169>Mehul Mahrishi is currently working as an Associate Professor in the Faculty of Computer Science & Engineering at the Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur, India. He is a life member of International Association of Engineers and has published several

research articles in National/International Journals, Conferences including Global Journals, ICCCTAM-Dubai, ICMLC-Singapore, IACC and chapters in books. He is also an active technical reviewer of Journal of Parallel and Distributed Computing (SCI & Scopus-Elsevier). His research activities are currently twofold: while the first research activity is set to explore the developmental enhancements video processing and analysis; the second major research theme is focused on the emerging capabilities of cloud computing. Mr. Mahrishi is rewarded at number of occasions in various domains including Recognition as an active reviewer by Journal of Parallel and

Distributed Computing
(JPDC, Elsevier, SCI &
Scopus Indexed), IEEE
continuing education
certification for
"e;Cloud Computing
Enable Technologies
and Recognition for
outstanding
performance in
Campus Connect
Program by Infosys,
India.His LinkedIn
profile: [https://www.lin
kedin.com/in/mehuk-
mahrishi-30979026](https://www.linkedin.com/in/mehuk-mahrishi-30979026)