

Fog computing and Internet of things: An Overview of Research Opportunities

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Abstract—Internet of Things (IoT) brings more than an explosive proliferation of endpoints. Despite the broad utilization of cloud computing, some applications and services still cannot benefit from this popular computing paradigm due to inherent problems of cloud computing such as unacceptable latency, lack of mobility support and location-awareness. It is disruptive in several ways. In this paper we examine those disruptions, and propose a hierarchical distributed architecture that extends from the edge of the network to the core nicknamed Fog Computing. Fog is an emergent architecture for computing, storage, control, and networking that distributes these services closer to end users along the cloud-to-things continuum. Fog Computing extends the Cloud Computing paradigm to the edge of the network, thus enabling a new breed of applications and services.

Index Terms—Edge computing, edge networking, edge storage, fog, fog computing, fog control, fog networking, fog storage, Internet of Things (IoT).

I. Introduction

The Internet of Things (IoT) shall be able to incorporate transparently and seamlessly a large number of different and heterogeneous end systems, while providing open access to selected subsets of data for the development of a plethora of digital services. Building a general architecture for the IoT is hence a very complex task, mainly because of the extremely large variety of devices, link layer technologies, and services that may be involved in such a system.

Over the past decade, moving computing, control, and data storage into the cloud has been an important trend. In particular, computing, storage, and network management functions are shifted to centralized data centers, backbone IP networks, and cellular core networks. Today, however, cloud computing is encountering growing challenges in meeting many new requirements in the Internet of Things (IoT).

An emerging wave of Internet deployments, most notably the Internet of Things (IoTs), requires mobility support and geo-distribution in addition to location awareness and low latency. We argue that a new platform is needed to meet these requirements; a platform we call Fog Computing. Fog, simply because the fog is a cloud close to the ground.

The Fog is an architecture that distributes computation, communication, control and storage closer to the end users along the cloud-to-things continuum. Sometimes

the term "Fog" is used interchangeably with the term "edge," although fog is broader than the typical notion of edge. The relevance of fog/edge is rooted in both the inadequacy of the traditional cloud and the emergence of new opportunities for the Internet of Things, 5G and embedded artificial intelligence.

Fog Computing enables a new breed of applications and services, and that there is a fruitful interplay between the Cloud and the Fog, particularly when it comes to data management and analytics. Fog Computing extends the Cloud Computing paradigm to the edge of the network. While Fog and Cloud use the same resources (networking, compute, and storage), and share many of the same mechanisms and attributes.

The Internet of things (IoT) will be the Internet of future, as we have seen a huge increase in wearable technology, smart grid, smart home/city, smart connected vehicles.

This paper is organized as follows. In the second section we introduce the Fog Computing paradigm, delineate its characteristics, and those of the platforms that supports Fog services. The following sections will take the range of new challenges in the emerging IoT and the difficulty to address these challenges with today's computing and networking models. It then discusses why we will need a new architecture—fog for computing, storage, networking, and control—and how it can fill the technology gaps and create new business opportunities.

2. The fog computing platform

"Fog Computing" is a highly virtualized platform that provides compute, storage, and networking services between end devices and traditional Cloud Computing Data Centers, typically, but not exclusively located at the edge of network.

The following figure (a) presents the idealized information and computing architecture supporting the future IoT applications, and illustrates the role of Fog Computing.

Cloud and Fog are built around the same basic services, "Edge of the Network", however, implies a number of characteristics that make the Fog a non-trivial extension of the Cloud. The fog extends the cloud to be closer to the things that produce and act on IoT data.

These devices, called fog nodes, can be deployed anywhere with a network connection: on a factory floor, on top of a power pole,

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Internet Research Ned L. Fielden, 2001-01-01 To many people the use of computers and the Internet as research tools is not a new concept To others though computers are a relatively recent if necessary addition to their research toolkit A lack of experience presents many difficulties for first time users and others with limited computer know how This work a second edition to the acclaimed Internet Research Theory and Practice provides useful information for anyone who wants to broaden the range and scope of their research tools or anyone who wants to increase their knowledge about what is available electronically The author discusses the following basic methods of research using Internet protocols Internet history techniques for online searching research theory and suggestions for maximizing results mechanisms helpful in distinguishing good from bad or mediocre information and ways for individuals to improve their research skills Also included is an expanded discussion of Internet search engines and their operation issues in scholarly communication and other emerging matters and an enlarged and updated bibliography

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Student Cheating and Plagiarism in the Internet Era Kathleen Foss, Ann Lathrop, 2000-06-15 The Internet high tech calculators and other technological advances have made student cheating easier and more common than ever before This book helps you put a stop to high tech and more traditional low tech forms of cheating and plagiarism Learn to recognize the danger signs for cheating and how to identify material that has been copied Sample policies for developing academic integrity reproducible lessons for students and faculty and lists of helpful online and print resources are just some of the features of this important guide A must read for concerned educators administrators and parents

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A Guide to Writing Sociology Papers Roseann Giarrusso, University of California, Los Angeles. Sociology Writing Group, 2001-02-15 Ideal for instructors and students in a wide range of sociological courses this guide makes the case that thinking and writing are integrally related and that writing therefore exercises the sociological imagination Written in a clear and conversational style A Guide to Writing Sociology Papers examines a wide range of writing assignments for sociology courses at all levels of the curriculum Employing a variety of writing samples as a means to illustrate effective writing this brief and inexpensive text teaches students how to deftly research and write about sociology

The Oxford Handbook of Internet Studies William H. Dutton, 2013-01-10 Internet Studies has been one of the most dynamic and rapidly expanding interdisciplinary fields to emerge over the last decade The Oxford Handbook of Internet Studies has been designed to provide a valuable resource for academics and students in this area bringing together leading scholarly perspectives on how the Internet has been studied and how the research agenda should be pursued in the future The Handbook aims to focus on Internet Studies as an emerging field each chapter seeking to provide a synthesis and critical assessment of the research in a particular area Topics covered include social perspectives on the technology of the Internet its role in everyday life and work implications for communication power and influence and the governance and regulation of the Internet The Handbook is a landmark in this new interdisciplinary field not only helping to strengthen research on the key questions but also shape research policy and practice across many disciplines that are finding the Internet and its political economic cultural and other societal implications increasingly central to their own key areas of inquiry Internet Research Annual Mia Consalvo, Matthew Allen, 2005 This collection brings together the most interesting and outstanding papers from the Internet Research Conference held in Toronto in 2003 Taken individually each paper makes an important contribution to the emerging field of Internet research but the collection as a whole presents key perspectives on the most significant directions in the field In particular the papers discuss how we must now consider the relationship of Internet based activities to those offline rather than concentrating exclusively on the virtual Papers advance important ideas and present research findings in relation to information theory the Internet at home theorizing time and the Internet online

activism the digital divide and more This annual the second in the series demonstrates the vibrant and diverse nature of Internet scholarship fostered by the Association of Internet Researchers *Handbook on the Economics of the Internet* Johannes M. Bauer, Michael Latzer, 2016-05-27 The Internet is connecting an increasing number of individuals organizations and devices into global networks of information flows It is accelerating the dynamics of innovation in the digital economy affecting the nature and intensity of competition and enabling private companies governments and the non profit sector to develop new business models In this new ecosystem many of the theoretical assumptions and historical observations upon which economics rests are altered and need critical reassessment *International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018* Jude Hemanth, Xavier Fernando, Pavel Lafata, Zubair Baig, 2018-12-20 This book discusses data communication and computer networking communication technologies and the applications of IoT Internet of Things big data cloud computing and healthcare informatics It explores examines and critiques intelligent data communications and presents inventive methodologies in communication technologies and IoT Aimed at researchers and academicians who need to understand the importance of data communication and advanced technologies in IoT it offers different perspectives to help readers increase their knowledge and motivates them to conduct research in the area highlighting various innovative ideas for future research *The Real Internet Architecture* Pamela Zave, Jennifer Rexford, 2024-08-06 This book offers a description of the architecture of the Internet as it actually exists now It is a revolutionary description based on a completely new model of network architecture explaining how the Internet has evolved from its origins and how it is still evolving and exposing previously unarticulated patterns and trends in network architecture Essentially all discussion of the Internet is still dominated by the classic five layer model put forth by its originators This model is so outdated that it is a hindrance to understanding Internet evolution as well as to teaching and doing effective research on networking This book replaces it with a new model of networking called compositional network architecture This model has been formalized but the book does not use the formal model rather the book relies on the model's accuracy and precision as a foundation for a convincing informal explanation accessible to a much broader audience than a formal model would be the formal model will be available on a companion website along with teaching material Many scholars and practitioners seeing the Internet only through the lens of the classic Internet architecture complain that the Internet has not evolved past its original architecture Compositional network architecture is a general model for describing many architectures and it shows clearly how the Internet has evolved since the early 1990s and how it continues to evolve Though the book is based on a conceptual model and is therefore a relatively abstract treatment it is illustrated with hundreds of contemporary Internet examples so there is no lack of concrete detail or grounding in reality Compared to older works on networking the book is also more concerned with network services how a network helps users communicate This is a natural outgrowth of the Internet as subject matter Performance and scalability are the usual themes of Internet literature as they

were certainly the most important challenges of the Internet's early years. Since the 1990s, however, progress on performance and scalability has been steady and incremental. The major motivation for Internet evolution since then has been the need for enhanced services including mobility, multicast, security, privacy, reliability, and support for content distribution, and the book will engage with these themes. It will serve as a reference for anyone dealing with Internet architecture and as a graduate textbook for networking courses.

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Politics on the Internet Steve Buckler, David P. Dolowitz, 2005. This indispensable new text equips the reader with the key skills needed to cut through the mass of material the web offers and harness its real power. Today's students and scholars need new coherent strategies to approach their interests and get the best out of information technology; this superb book builds and strengthens these skills.

Future Industrial Internet Hao Yin, 2025-06-18. This book constitutes the proceedings of the Second Future Industrial Internet Symposium FII 2024 held in Shenzhen, China, on August 23, 2024. The 12 full papers and 4 short papers presented in this book were carefully reviewed and selected from 75 submissions. They focus on various aspects of the latest research applications and development trends related to the industrial internet and associated fields.

On the Move to Meaningful Internet Systems: OTM 2019 Conferences Hervé Panetto, Christophe Debruyne, Martin Hepp, Dave Lewis, Claudio Agostino Ardagna, Robert Meersman, 2019-10-10. This volume LNCS 11877 constitutes the refereed proceedings of the Confederated International Conferences Cooperative Information Systems CoopIS 2019, Ontologies, Databases, and Applications of Semantics ODBASE 2019, and Cloud and Trusted Computing C TC held as part of OTM 2019 in October 2019 in Rhodes, Greece. The 38 full papers presented together with 8 short papers were carefully reviewed and selected from 156 submissions. The OTM program every year covers data and Web semantics, distributed objects, Web services, databases, information systems, enterprise workflow, and collaboration, ubiquity, interoperability, mobility, grid, and high performance computing.

Product Lifecycle Management in the Era of Internet of Things Abdelaziz Bouras, Benoit Eynard, Sebti Foufou, Klaus-Dieter Thoben, 2016-04-20. This book constitutes the refereed proceedings of the 12th IFIP WG 5.1 International Conference on Product Lifecycle Management PLM 2015 held in Doha, Qatar, in October 2015. The 79 revised full papers were carefully reviewed and selected from 130 submissions. The papers are organized in the following topical sections: smart products, assessment approaches, PLM maturity, building information modeling, BIM languages and ontologies, product service systems, future factory, knowledge creation and management, simulation, and virtual environments, sustainability, and systems improvement, configuration, and engineering.

change education studies cyber physical and smart systems design and integration issues and PLM processes and applications

Internet of Things (IoT): Key Digital Trends Shaping the Future Rajiv Misra, Muttukrishnan Rajarajan, Bharadwaj Veeravalli, Nishtha Kesswani, Ashok Patel, 2023-07-24 The book is a collection of high quality research papers presented at 7th International Conference on Internet of Things and Connected Technologies ICIoTCT 2022 held at Indian Institute of Technology IIT Patna Bihar India during 29-30 September 2022 This book presents recent advances on IoT and connected technologies This book is designed for marketing managers business professionals researchers academicians and graduate level students seeking to learn how IoT and connecting technologies increase the amount of data gained through devices enhance customer experience and widen the scope of IoT analytics in enhancing customer marketing outcomes

Buying your Self on the Internet Phillips Andelka M. Phillips, 2019-07-17 This book examines the rise of the direct to consumer genetic testing industry DTC and its use of wrap contracts It uses the example of DTC to show the challenges that disruptive technologies pose for societies and for regulation It also uses the wrap contracts of DTC companies to explore broader issues with online contracting

The WIPO Internet Treaties at 25 R. V. Vaidyanatha Ayyar, 2023-01-01 The book explores the WIPO journey so far and looks at how relevant the treaties are in contemporary world after 25 years of their existence It revisits the WIPO Diplomatic Conference narrates briefly how the Internet Treaties came into being describes all the developments germane to the Internet Treaties over the last twenty five years and examines at length how well these treaties withstood the creative gales of destruction having a bearing on the production distribution and consumption of digital content The retrospective consists of two parts The first part looks back at the conference its course of events its negotiation dynamics the doctrinal differences and sharply conflicting economic interests underlying the stands taken by the main parties to negotiations and the national and transnational interest groups that sought to influence the negotiation process and outcomes The second part reflects on the outcomes and assesses with the wisdom of hindsight how appropriate the outcomes were and how well they withstood the passage of time This second aspect is the main focus of this book The retrospective is limited to the digital agenda of DipCon but for the digital agenda the DipCon is convened so soon and the Internet Treaties concluded so fast The book provides rich material for researchers studying the WIPO journey and also the practitioners by throwing light on discussions that led to a treaty that has in general withstood the trials of time

Internet of Things Maki K. Habib, 2024-01-31 Embark on a journey through the dynamic world of the Internet of Things IoT with Internet of Things New Insight This innovative book offers a concise yet comprehensive exploration of IoT's technological evolution diverse applications and prospects From its roots in ubiquitous computing to real world applications in health care agriculture and smart cities each chapter unveils the transformative impact of IoT on our interconnected world Key Features Applications across Domains Explore real world examples showcasing how IoT enhances efficiency and quality of life Challenges and Solutions Confront the hurdles of rapid IoT proliferation and discover insightful perspectives and

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