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The Open IoT Stack: Architecture and Use Cases **Towards an Open IoT Stack for the Cloud - Eclipse IoT Day 8 ThingMonk 2016 Eclipse IoT Day 8** ~~2017~~ ~~The Open IoT Stack Architecture and Use Cases Workshop: Eclipse Ditto - Digital Twins as part of an open IoT platform - Thomas Jaekle (Bosch.io) A flexible and scalable industrial IoT platform using Eclipse IoT projects Virtual IoT | Building the Internet of Things with the Eclipse IoT stack - a practical example~~ A Guided Tour of Eclipse IoT: 3 Software Stacks for IoT **Lighting Solution Using the Eclipse Kapua and Eclipse Kura Platforms | Virtual IoT Virtual IoT / Digital Twins go open source: Eclipse Ditto Introduction**

Eclipse Vorto - Device Integration/Virtual IoT | Creating end-to-end IoT applications with Eclipse Kura |u0026 Solar IoT Platform Creating an open source Information architecture for the IoT (sponsored by Red Hat) ~~Unified Protocol DAG (UNFI) Price Prediction 50k DEFI-GEM Ivan Discusses Orion and the Importance of On-Chain Aggregators 10 IoT Development Boards You Need to Get How It Works: Internet of Things Harmonize your device payload with Eclipse Vorto Connecting Internet of Things (IoT) with MQTT (Introduction to MQTT) Eclipse IoT - an overview What is IoT? Understanding IoT Protocol, Clients and Management Managing an ARM med device over the air using lightweight M2M with Eclipse Hakoana and Leshan Virtual IoT | 10 Reasons Why Java Is The Best Platform For Developing IoT Applications~~

Building an IoT product from scratch using Eclipse IoT Technologies/Virtual IoT | Building u0026 managing IoT applications with LightweightM2M ~~Remote software updates for IoT devices with Eclipse hawkBit Virtual IoT | Rapid IoT Prototyping with Eclipse Vorto Rapid IoT Prototyping with Eclipse Vorto - Virtual IoT Code~~
Free Smart Agriculture | Part 2 | Intern @ Eclipse IoT developing smart IoT applications using Eclipse Kura Virtual IoT | Eclipse Kura: A gateway framework built for IoT Open Iot Stack Eclipse

Eclipse IoT is the industry's leading community for Open Source IoT projects. For Red Hat, Eclipse IoT is the place where we collaborate with like-minded colleagues from other firms to create projects that form the basis of our IoT products. David Ingham / Director of Software Engineering, Integration Middleware, Red Hat

Eclipse IoT - Leading open source community for IoT innovation

The Eclipse IoT community is very active in providing the technology that can be used in each stack of an IoT solution. Eclipse IoT has 26 different open source projects that address different features of the IoT stacks. In addition to the Eclipse IoT projects, there are other open source projects that are also relevant to an IoT stack.

The Three Software Stacks Required for IoT ... - Eclipse IoT

The Eclipse Open IoT Stack for Java is a set of Java frameworks and OSGi services that make it easy to connect and manage IoT solutions. The Open IoT Stack for Java includes support for 1) popular IoT standards: OASIS MQTT, IETF CoAP and OMA Lightweight M2M (LWM2M), and 2) a set of services for building IoT Gateways.

Eclipse Simplifies Development of Internet of Things (IoT) ...

OPENIOT STACK Eclipse IoT is providing a set of re-usable open source technologies that make it possible to connect, secure and manage the devices for your IoT solutions. Based on open standards and open source, the Open IoT Stack provides the building blocks that simplify the creation of IoT solutions.

OPEN IOT STACK - Eclipse

The Eclipse Open IoT Stack for Java is supported by a large community of companies, universities and research institutions, including Zlemetry, Actuate, Bitreactive, Cisco, Deutsche Telekom...

Eclipse Foundation Delivers Open IoT Stack for Java

Developers have a de-facto standard, open source stack that allows them to move cloud workloads wherever needed, whenever needed. They can customize the stack for their unique requirements and deploy it anywhere from a public or private cloud to a private data center or even their local laptop. Get Involved in Our IoT and Edge Working Groups

A Pre-integrated, Open Source Stack for Cloud to ... - Eclipse

Eclipse Foundation unveils open IoT Stack for Java Posted by: Anita Podosiadlo - October 16, 2014 The Eclipse Foundation took the wraps off its new Internet of Things (IoT) Stack for Java at this year's JavaOne conference, underway this week in San Francisco.

Eclipse foundation unveils open IoT Stack for Java

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iot.eclipse.org is where you can learn about the technologies developed at Eclipse to make Internet of Things (IoT) development simpler. These technologies aim at establishing an open, end-to-end, IoT stack.

Eclipse | IoT development made simple - iot.eclipse.org

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Open IoT Stack for Java Tutorial. Using Eclipse Kura, MQTT and CoAP to build a smart greenhouse. Java is almost 20 years old, and has over the years gathered a very large community of developers that in turn fostered an even larger ecosystem of open-source components and frameworks. Thanks to the recent efforts towards making Java...

Open IoT Stack for Java Tutorial - Eclipse IoT

Eclipse Edge + Eclipse IoT: Towards a full IoT Stack for Microcontrollers. Developing for the embedded world is a really interesting challenge, as any object may become part of the Internet of Things (IoT). Unfortunately, to achieve that goal, companies may not be able to afford high end processors (such as the one found in a Raspberry Pi 3) for ...

Eclipse Edge + Eclipse IoT: Towards a full IoT Stack for ...

Open Source Stack for Constrained Devices Eclipse IoT provides a set of libraries that can be deployed on a constrained embedded device to provide a complete IoT develop - ment stack • IoT Operating Systems - Contiki-ng, RIOT, FreeRTOS, Zephyr, Apache Mynewt • Hardware Abstraction - Eclipse Edge provides an high-level

The Three Software Stacks Required for IoT ... - Eclipse IoT

Eclipse IoT is an ecosystem of organizations that are working together to establish an IoT architecture based on open source technologies and standards. Dave Shuman and James Kirklund showcase an end-to-end architecture for the IoT based on open source standards, highlighting Eclipse Kura, an open source stack for gateways and the edge, and ...

An open source architecture for the IoT: Big data ...

OPEN IOT STACK - Eclipse [EPUB] Open Iot Stack Eclipse Open Library is a free Kindle book downloading and lending service that has well over 1 million eBook titles available. [EPUB] Open Iot Stack The Eclipse Open IoT Stack for Java is supported by a large community of companies, universities and research institutions, including Zlemetry, Actuate,

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The Eclipse Foundation is launching a free, open-source Java stack for IoT By Stephen Lawson Senior U.S. Correspondent, IDG News Service

Software stack from Eclipse could unleash Java developer ...

To help developers bring out new IoT devices more quickly, teams at Eclipse created implementations that they can pick up and use. Though the Open IoT Stack for Java won't lead directly to ...

Software stack from Eclipse could unleash Java developer ...

The Foundation is home to the Eclipse IDE, Jakarta EE, and over 375 open source projects, including runtimes, tools, and frameworks for cloud and edge applications, IoT, AI, automotive, systems ...

Learn practical uses for some of the hottest tech applications trending among technology professionals We are living in an era of digital revolution. On the horizon, many emerging digital technologies are being developed at a breathtaking speed. Whether we like it or not, whether we are ready or not, digital technologies are going to penetrate more and more deeper and deeper, into every aspect of our lives. This is going to fundamentally change how we live, how we work, and how we socialize. Java, as a modern high-level programming language, is an excellent tool for helping us to learn these digital technologies, as well as to develop digital applications, such as IoT, AI, Cybersecurity, Blockchain and more. Practical Java Programming uses Java as a tool to help you learn these new digital technologies and to be better prepared for the future changes. Gives you a brief overview for getting started with Java Programming Dives into how you can apply your new knowledge to some of the biggest trending applications today Helps you understand how to program Java to interact with operating systems, networking, and mobile applications Shows you how Java can be used in trending tech applications such as IoT (Internet of Things), AI (Artificial Intelligence), Cybersecurity, and Blockchain Get ready to find out firsthand how Java can be used for connected home devices, healthcare, the cloud, and all the hottest tech applications.

This book has a focus on the development and deployment of the Industrial Internet of Things (IIoT) paradigm, discussing frameworks, methodologies, benefits and limitations, as well as providing case studies of employing the IoT vision in the industrial domain. IIoT is becoming an attractive business reality for many organisations such as manufacturing, logistics, oil and gas, energy and other utilities, mining, aviation, and many more. The opportunities for this paradigm are huge, and according to one report, the IIoT market is predicted to reach \$125 billion by 2021. The driving philosophy behind the IIoT is that smart machines are better than humans at accurately capturing, analysing and communicating real-time data. The underlying technologies include distributed computing, machine learning, artificial intelligence, and machine-to-machine communication, with a typical IIoT system consisting of intelligent systems (applications, controllers, sensors, and security mechanisms), data communication infrastructure (cloud computing, edge computing, etc.), data analytics (to support business intelligence and corporate decision making), and most importantly the human element. The promised benefits of the IIoT include enhanced safety, better reliability, smart metering, inventory management, equipment tracking, and facilities management. There are, however, numerous issues that are also becoming the focus of active research, such as concerns regarding service availability, data security, and device communication. Lack of ubiquitous interoperability between heterogeneous devices is also a major concern. This book intends to fill a gap in the IIoT literature by providing the scientific contributions and latest developments from researchers and practitioners of international repute, focusing on frameworks, methodologies, benefits, and inherent issues/barriers to connected environments, especially in industrial settings. The intended audience includes network specialists, hardware engineers, and security experts who wish to adopt newer approaches for device connectivity, IoT security, and sensor-based device design. University level students, researchers and practitioners will also find the latest innovation in technology and newer approaches relevant to the IIoT from a distributed computing perspective.

This multi-contributed handbook focuses on the latest workings of IoT (Internet of Things) and Big Data. As the resources are limited, it's the endeavor of the authors to support and bring the information into one resource. The book is divided into 4 sections that covers IoT and technologies, the future of Big Data, algorithms, and case studies showing IoT and Big Data in various fields such as health care, manufacturing and automation. Features Focuses on the latest workings of IoT and Big Data Discusses the emerging role of technologies and the fast-growing market of Big Data Covers the movement toward automation with hardware, software, and sensors, and trying to save on energy resources Offers the latest technology on IoT Presents the future horizons on Big Data

Today, Internet of Things (IoT) is ubiquitous as it is applied in practice in everything from Industrial Control Systems (ICS) to e-Health, e-commerce, Cyber Physical Systems (CPS), smart cities, smart parking, healthcare, supply chain management and many more. Numerous industries, academics, alliances and standardization organizations make an effort on IoT standardization, innovation and development. But there is still a need for a comprehensive framework with integrated standards under one IoT vision. Furthermore, the existing IoT systems are vulnerable to huge range of malicious attacks owing to the massive numbers of deployed IoT systems, inadequate data security standards and the resource-constrained nature. Existing security solutions are insufficient and therefore it is necessary to enable the IoT devices to dynamically counter the threats and save the system. Apart from illustrating the diversified IoT applications, this book also addresses the issue of data safekeeping along with the development of new security-enhancing schemes such as blockchain, as well as a range of other advances in IoT. The reader will discover that the IoT facilitates a multidisciplinary approach dedicated to create novel applications and develop integrated solutions to build a sustainable society. The innovative and fresh advances that demonstrate IoT and computational intelligence in practice are discussed in this book, which will be helpful and informative for scientists, research scholars, academicians, policymakers, industry professionals, government organizations and others. This book is intended for a broad target audience, including scholars of various generations and disciplines, recognized scholars (lecturers and professors) and young researchers (postgraduate and undergraduates) who study the legal and socio-economic consequences of the emergence and dissemination of digital technologies such as IoT. Furthermore, the book is intended for researchers, developers and operators working in the field of IoT and eager to comprehend the vulnerability of the IoT paradigm. The book will serve as a comprehensive guide for the advanced-level students in computer science who are interested in understanding the severity and implications of the accompanied security issues in IoT. Dr. Bharat Bhushan is an Assistant Professor of Department of Computer Science and Engineering (CSE) at School of Engineering and Technology, Sharda University, Greater Noida, India. Prof. (Dr.) Sudhir Kumar Sharma is currently a Professor and Head of the Department of Computer Science, Institute of Information Technology & Management affiliated to GGSIPU, New Delhi, India. Prof. (Dr.) Bhuvan Unhelkar (BE, MBA, MSc, PhD; FACS; FSM-I, CBAP®) is an accomplished IT professional and Professor of IT at the University of South Florida, Sarasota-Manatee (Lead Faculty). Dr. Muhammad Fazal Ijaz is working as an Assistant Professor in Department of Intelligent Mechatronics Engineering, Sejong University, Seoul, Korea. Prof. (Dr.) Lamiya Karim is a professor of computer science at the National School of Applied Sciences Berrechid (ENSAB), Hassan 1st University.

Book Reviews and Essays. Comprises everything I wrote on my blog over 2016.

Current hype aside, the Internet of Things will ultimately become as fundamental as the Internet itself, with lots of opportunities and trials along the way. To help you navigate these choppy waters, this practical guide introduces a dedicated methodology for businesses preparing to transition towards IoT-based business models. With a set of best practices based on case study analysis, expert interviews, and the authors' own experience, the Ignite | IoT Methodology outlined in this book delivers actionable guidelines to assist you with IoT strategy management and project execution. You'll also find a detailed case study of a project fully developed with this methodology. This book consists of three parts: Illustrative case studies of selected IoT domains, including smart energy, connected vehicles, manufacturing and supply chain management, and smart cities The Ignite | IoT Methodology for defining IoT strategy, preparing your organization for IoT adoption, and planning and executing IoT projects A detailed case study of the IIC Track & Trace testbed, one of the first projects to be fully developed according to the Ignite | IoT Methodology

Build a strong and efficient IoT infrastructure at industrial and enterprise level by mastering industrial IoT network Key FeaturesGain hands-on experience working with industrial architectureExplore the potential of cloud-based Industrial IoT platforms, analytics, and protocolsImprove business models and transform your workforce with Industry 4.0Book Description We live in an era where advanced automation is used to achieve accurate results. To set up an automation environment, you need to first configure a network that can be accessed anywhere and by any device. This book is a practical guide that helps you discover the technologies and use cases for Industrial Internet of Things (IIoT). Hands-On Industrial Internet of Things takes you through the implementation of industrial processes and specialized control devices and protocols. You'll study the process of identifying and connecting to different industrial data sources gathered from different sensors. Furthermore, you'll be able to connect these sensors to cloud network, such as AWS IoT, Azure IoT, Google IoT, and OEM IoT platforms, and extract data from the cloud to your devices. As you progress through the chapters, you'll gain hands-on experience in using open source Node-Red, Kafka, Cassandra, and Python. You will also learn how to develop streaming and batch-based Machine Learning algorithms. By the end of this book, you will have mastered the features of Industry 4.0 and be able to build stronger, faster, and more reliable IIoT infrastructure in your Industry. What you will learnExplore industrial processes, devices, and protocolsDesign and implement the IIoT network flowGather and transfer industrial data in a secure wayGet to grips with popular cloud-based platformsUnderstand diagnostic analytics to answer critical workforce questionsDiscover the Edge device and understand Edge and Fog computingImplement equipment and process management to achieve business-specific goalsWho this book is for If you're an IoT architect, developer, or stakeholder working with architectural aspects of Industrial Internet of Things, this book is for you.

As more and more devices become interconnected through the Internet of Things (IoT), there is an even greater need for this book, which explains the technology, the internetworking, and applications that are making IoT an everyday reality. The book begins with a discussion of IoT "ecosystems" and the technology that enables them, which includes: Wireless Infrastructure and Service Discovery Protocols Integration Technologies and Tools Application and Analytics Enablement Platforms A chapter on next-generation cloud infrastructure explains hosting IoT platforms and applications. A chapter on data analytics throws light on IoT data collection, storage, translation, real-time processing, mining, and analysis, all of which can yield actionable insights from the data collected by IoT applications. There is also a chapter on edge/fog computing. The second half of the book presents various IoT ecosystem use cases. One chapter discusses smart airports and highlights the role of IoT integration. It explains how mobile devices, mobile technology, wearables, RFID sensors, and beacons work together as the core technologies of a smart airport. Integrating these components into the airport ecosystem is examined in detail, and use cases and real-life examples illustrate this IoT ecosystem in operation. Another in-depth look is on envisioning smart healthcare systems in a connected world. This chapter focuses on the requirements, promising applications, and roles of cloud computing and data analytics. The book also examines smart homes, smart cities, and smart governments. The book concludes with a chapter on IoT security and privacy. This chapter examines the emerging security and privacy requirements of IoT environments. The security issues and an assortment of surmounting techniques and best practices are also discussed in this chapter.

This two-volume set of LNCS 12489 and 12490 constitutes the thoroughly refereed conference proceedings of the 21th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2020, held in Guimarães, Portugal, in November 2020.* The 93 papers presented were carefully reviewed and selected from 134 submissions. These papers provided a timely sample of the latest advances in data engineering and machine learning, from methodologies, frameworks, and algorithms to applications. The core themes of IDEAL 2020 include big data challenges, machine learning, data mining, information retrieval and management, bio-/neuro-informatics, bio-inspiredmodels, agents and hybrid intelligent systems, real-world applications of intelligent techniques and AI.* The conference was held virtually due to the COVID-19 pandemic.

This book comprehensively describes an end-to-end Internet of Things (IoT) architecture that is comprised of devices, network, compute, storage, platform, applications along with management and security components. It is organized into five main parts, comprising of a total of 11 chapters. Part I presents a generic IoT reference model to establish a common vocabulary for IoT solutions. This includes a detailed description of the Internet protocol layers and the Things (sensors and actuators) as well as the key business drivers to realize the IoT vision. Part II focuses on the IoT requirements that impact networking protocols and provides a layer-by-layer walkthrough of the protocol stack with emphasis on industry progress and key gaps. Part III introduces the concept of Fog computing and describes the drivers for the technology, its constituent elements, and how it relates and differs from Cloud computing. Part IV discusses the IoT services platform, the cornerstone of the solution followed by the Security functions and requirements. Finally, Part V provides a treatment of the topic of connected ecosystems in IoT along with practical applications. It then surveys the latest IoT standards and discusses the pivotal role of open source in IoT.

Faculty will find well-crafted questions and answers at the end of each chapter, suitable for review and in classroom discussion topics. In addition, the material in the book can be used by engineers and technical leaders looking to gain a deep technical understanding of IoT, as well as by managers and business leaders looking to gain a competitive edge and understand innovation opportunities for the future. Dr. Jim Spohrer, IBM *This text provides a very compelling study of the IoT space and achieves a very good balance between engineering/technology focus and business context. As such, it is highly-recommended for anyone interested in this rapidly-expanding field and will have broad appeal to a wide cross-section of readers, i.e., including engineering professionals, business analysts, university students, and professors.* Professor Nasir Ghani, University of South Florida

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