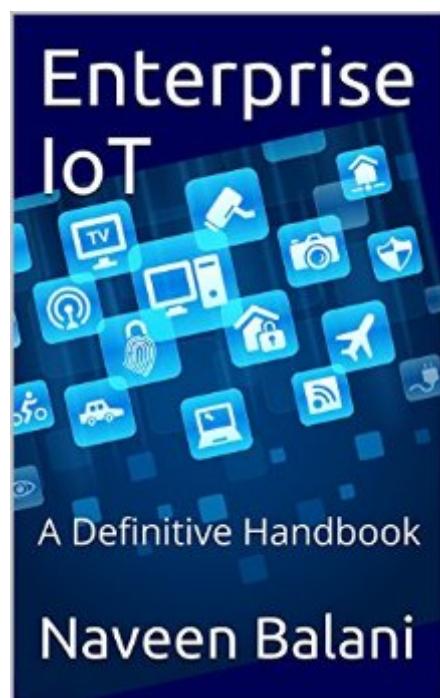# Enterprise IoT: A Definitive Handbook

Synopsis

The fourth edition of the Enterprise IoT book is out now. The most comprehensive guide on understanding Enterprise IoT and how to implement IoT applications using IoT cloud offerings from Microsoft, IBM, , GE Predix and open source software. â œInternet of Things is a vision where every object in the world has the potential to connect to the Internet and provide their data so as to derive actionable insights on its own or through other connected objectsâ œThe object can be anything â " a vehicle, machinery, airport, city, people, phone or even a shoe. From a connected vehicle solution, you can understand the driver behaviour and vehicle usage patterns, from a connected machines solution you can determine when do machines need servicing, from a connected airport solution you can understand many things like - how much time the passenger needs to wait for check-in and security, from an operating perspective it could help to optimize the passenger movement and ensure the right equipments are available at the right time to ensure quick serviceability and finally say, from a connected footwear solution you can understand how much you have run so far and your app can automatically purchase a new pair of shoes based on the remaining shoe life.As we can see, itâ ™s not just about connectivity, but how to use the connected data in context of your application or for that matter other connected solutions to derive insights which canâ ™t be uncovered before. Today we are seeing data (both structured and unstructured) growing by leaps and bounds available through mediums like blogs, social media, transactional systems etc. With advent of IoT, you will see a large volume of raw data emitting from devices like sensors. Such huge and complex set of data, if not attended to, can go wasted and opportunity lost in terms of building smart environment around us. While focusing on issue of addressing this web of complexity, often understanding the real benefit of IoT is lost and most importantly how to get started on IoT.In this book, our focus will be to provide a clear vision on Internet of Things and everything you should know to get started on applying and building Enterprise IoT applications in any industry. The concepts listed down in the book are applicable across industries. Till date, itâ ™s difficult to find a single perspective of what does an Enterprise IoT stack actually mean and our intent is to provide an applicability guide that can be taken as reference for building any IoT application.In the course of the book, we would describe some of the key components of Internet of Things through our Enterprise IoT stack. We would look at how to incrementally apply IoT transformations to build connected products in various industries. At the end, we would understand the technical strategy and how to build IoT applications using IoT cloud offerings from Microsoft, IBM, and Predix and even build one using open source technologies. To summarize, as part of the book we would cover the following - â ¢ A detail overview of key

components of Internet of Things and most comprehensive view of an Enterprise IoT stack.â ¢ How to apply IoT in context of real world applications by covering detailed use cases on manufacturing, automotive and home automation.â ¢ Understand the technical strategy and how to implement IoT applications using Microsoft, IBM , and Predix IoT offerings and various open source technologies and map it to our Enterprise IoT Stack.

Book Information

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Customer Reviews

The book is a great primer on IoT and an excellent guide on how to use cloud services from IoT platforms to build applications. The book is very well organized, it has 3 parts â " the first part lays the foundation of architecture, devices, platforms, analytics, cognitive, solutions, protocols etc.. and also covers emerging standards like AllJoyn and show where the industry is heading.The second part is about use cases, coming from m2m and manufacturing background, I could easily relate on the manufacturing phases and move towards the Industrial IoT . The third part of the book is about how to build solutions by using cloud services - analytics, real time streaming, time series

databases, device sdks etc.. from platforms like , IBM and Microsoft and even open source like kakfa, cassandra, spark etc.My only negative comments are:1. There are few typos in the book which sometimes come in the way of great content. I would recommend authors to proof read this thoroughly and get this corrected.2. The comparison chart didnâ ™t render well on kindle, although there was a link provided which worked over the web.3. The product names for AWS IoT have probably changed and match those with latest one.I recommend this book along with "Abusing the Internet of things" book which talks about security aspects in detail for implementing IoT.

This is not a handbook, but a complete reference on IoT. Frankly, I bought this book initially as the price was under 10$, and thought the contents would be ok. But as I start reading the book, I was amazed with the information and quality of the content which even a 50$ IoT book couldnâ ™t convey.I am an IoT architect and my job is to compare and bring out the best IoT offerings based on client requirements. I have been looking for details which shows how to build IoT applications using various offerings and this book has all covered. The best part about this book is that is explains everything you need to know about IoT, concepts, architecture, solutions, use cases, cloud offerings. Will wait for author next revision, I would like to see author cover more platforms like ThingWorx etc.

Loads of good information, but be prepared to wade through really poor writing. Grammar appears to be a distant second with subject/verb agreement issues and other general editing problems to be encountered on every page.

Everyone is talking about IoT, devices, protocols, cloud, applications but itâ ™s very difficult to find a single book which does justice to this subject. Everyone seems to have their own agenda for IoT.The author knows his stuff in and out and does a great job explaining enterprise concepts, the architecture, uses cases minus the technical jargons and keeps it simple. The last chapter of the book talks about implementing applications using AWS, Azure and IBM IoT which is very well explained. The security configurations for AWS IoT were very well explained and I was able t try out a sample even without a physical device. The comparison of cloud services at the end was really informative I was not able to find such information online. With just under 150 pages, this is the best good you could find on IoT.I would even say this book would be an essential contribution to everyone who needs to understand and build IoT applications and understand the big picture. highly recommended.

Very easy book to read. A book for IT professionals to enhance their existing enterprise skills in building connected objectsfor the future.The vision and insights for various industries were useful, our world is going to be smarter for sure.

I am involved in various iot initiatives and deployments, building large scale enterprise iot solutions requires a different strategyas compared to conventional methods, i found this book to be on a right track and suggest how to evolve use cases,get the high level iot design and implementations done right. A must read for dealing with large scale iot developments

The book distills a lot of information to provide effective messaging around IoT. many people confuse IoT with only devices, IoT is about platforms, edge computing, analytics, streaming, machine learning to build repeatable solutions for business outcomes. Understanding the spectrum is important and how to use available cloud resources is equally important. The book delivers an brilliant technical insight in this aspect. +1 for mentioning IoT open source platform,building using open source technologies will be the future in cloud.

Its a good book to understand IOT and how to build applications. I expected the book to be longer and cover various other use cases around heath care and talk about IOT and digital initiatives.

Enterprise IoT: A Definitive Handbook Understanding Cloud, IoT and Big data (Cloud, IoT & Big Data: Basic To AWS SA Professional Book 1) Programming for the Internet of Things: Using Windows 10 IoT Core and Azure IoT Suite (Developer Reference) HTML & XHTML: The Definitive Guide: The Definitive Guide (Definitive Guides) Enterprise Integration: An Architecture for Enterprise Application and Systems Integration Red Hat Enterprise Linux (RHEL) 6 Server Installation & Administration: Training Manual: Covering CentOS-6, OpenSUSE 11.3 Server, Mandriva Enterprise Server, and Fedora 14 Server Microsoft .NET - Architecting Applications for the Enterprise: Architecting Applications for the Enterprise (Developer Reference) ESP8266: Programming NodeMCU Using Arduino IDE - Get Started With ESP8266: (Internet Of Things, IOT, Projects In Internet Of Things, Internet Of Things for Beginners, NodeMCU Programming, ESP8266) Building an IoT Node for less than 15 $: NodeMCU & ESP8266 Oracle SQL*Plus: The Definitive Guide (Definitive Guides) 802.11 Wireless Networks: The Definitive Guide: The Definitive Guide The Definitive Guide to GCC (Definitive Guides (Paperback)) Vertical Gardening: The Definitive Guide

To Vertical Gardening For Beginners. (The Definitive Gardening Guides) Novell Open Enterprise Server Administrator's Handbook, SUSE LINUX Edition (Novell Press) Novell Open Enterprise Server Administrator's Handbook, SUSE LINUX Edition Novell Open Enterprise Server Administrator's Handbook, NetWare Edition The Entered Apprentice Handbook, The Fellow Crafts Handbook, The Higher Degrees Handbook, and The Master Mason's Handbook Salesforce CRM - The Definitive Admin Handbook - Third Edition Salesforce CRM: The Definitive Admin Handbook - Second Edition Foraging: Your Beginner's Guide and Definitive Handbook to Foraging Wild Edible Plants and Herbs(foraging guide, foraging for beginners, foraging for survival, foraging tips, foraging wilderness)

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