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**IoT Solutions In  
Microsoft's Azure  
IoT Suite: Data  
Acquisition And  
Analysis In The**

# Get Free IoT Solutions In Microsoft's Azure IoT Suite: **Real World** Data Acquisition And Analysis

Learn to design, implement and secure your IoT infrastructure Key Features Build a complete IoT system that is the best fit for your organization Learn about different concepts, technologies, and tradeoffs

# Get Free IoT Solutions In Microsoft's Azure IoT Suite: Data Acquisition And Analysis in the IoT architectural stack

Understand the theory, concepts, and implementation of each element that comprises IoT design—from sensors to the cloud Implement best practices to ensure the reliability, scalability, robust communication systems, security, and data analysis

# Get Free IoT Solutions In Microsoft's Azure IoT Suite: Data Acquisition And Analysis in your IoT infrastructure Book Description The Internet of Things

(IoT) is the fastest growing technology market. Industries are embracing IoT technologies to improve operational expenses, product life, and people's well-being. An architectural guide is necessary if

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you want to traverse the spectrum of technologies needed to build a successful IoT system, whether that's a single device or millions of devices. This book encompasses the entire spectrum of IoT solutions, from sensors to the cloud. We start by examining modern sensor systems

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and focus on their power and functionality. After that, we dive deep into communication theory, paying close attention to near-range PAN, including the new Bluetooth® 5.0 specification and mesh networks. Then, we explore IP-based communication in LAN and WAN,

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including 802.11ah, 5G LTE cellular, SigFox, and LoRaWAN. Next, we cover edge routing and gateways and their role in fog computing, as well as the messaging protocols of MQTT and CoAP. With the data now in internet form, you'll get an understanding of cloud and fog

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architectures, including the OpenFog standards. We wrap up the analytics portion of the book with the application of statistical analysis, complex event processing, and deep learning models. Finally, we conclude by providing a holistic view of the IoT security stack and the

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anatomical details of IoT exploits while countering them with software defined perimeters and blockchains. What you will learn Understand the role and scope of architecting a successful IoT deployment, from sensors to the cloud Scan the landscape of IoT technologies that

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span everything from sensors to the cloud and everything in between See the trade-offs in choices of protocols and communications in IoT deployments Build a repertoire of skills and the vernacular necessary to work in the IoT space Broaden your skills in multiple engineering

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domains necessary for the IoT architect Who this book is for This book is for architects, system designers, technologists, and technology managers who want to understand the IoT ecosphere, various technologies, and tradeoffs and develop a 50,000-foot view of IoT

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Develop and manage effective real-time streaming solutions by leveraging the power of Microsoft Azure About This Book Analyze your data from various sources using Microsoft Azure Stream Analytics Develop, manage and automate your

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stream analytics solution with  
Microsoft Azure A practical guide to  
real-time event processing and  
performing analytics on the cloud  
Who This Book Is For If you are  
looking for a resource that teaches  
you how to process continuous  
streams of data in real-time, this

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book is what you need. A basic understanding of the concepts in analytics is all you need to get started with this book What You Will Learn Perform real-time event processing with Azure Stream Analysis Incorporate the features of Big Data Lambda architecture

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pattern in real-time data processing  
Design a streaming pipeline for  
storage and batch analysis  
Implement data transformation and  
computation activities over stream of  
events Automate your streaming  
pipeline using Powershell and the  
.NET SDK Integrate your streaming

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pipeline with popular Machine Learning and Predictive Analytics modelling algorithms Monitor and troubleshoot your Azure Streaming jobs effectively In Detail Microsoft Azure is a very popular cloud computing service used by many organizations around the world. Its

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latest analytics offering, Stream Analytics, allows you to process and get actionable insights from different kinds of data in real-time. This book is your guide to understanding the basics of how Azure Stream Analytics works, and building your own analytics solution using its

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capabilities. You will start with understanding what Stream Analytics is, and why it is a popular choice for getting real-time insights from data. Then, you will be introduced to Azure Stream Analytics, and see how you can use the tools and functions in Azure to

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develop your own Streaming Analytics. Over the course of the book, you will be given comparative analytic guidance on using Azure Streaming with other Microsoft Data Platform resources such as Big Data Lambda Architecture integration for real time data analysis and

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differences of scenarios for architecture designing with Azure HDInsight Hadoop clusters with Storm or Stream Analytics. The book also shows you how you can manage, monitor, and scale your solution for optimal performance. By the end of this book, you will be well-versed in

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using Azure Stream Analytics to  
develop an efficient analytics  
solution that can work with any type  
of data. Style and approach A  
comprehensive guidance on  
developing real-time event  
processing with Azure Stream  
Analysis

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Get the definitive guide on designing applications on the Microsoft application platform—straight from the Microsoft patterns & practices team. Learn how to choose the most appropriate architecture and the best implementation technologies that the Microsoft application

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platform offers applications  
developers. Get critical design  
recommendations and guidelines  
organized by application  
typeâ€”from Web, mobile, and rich  
Internet applications to Office  
Business Applications. Youâ€™™ ll also  
get links to additional technical

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resources that can help with your application development.

Collect and analyze sensor and usage data from Internet of Things applications with Microsoft Azure IoT Suite. Internet connectivity to everyday devices such as light bulbs, thermostats, and even voice-

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command devices such as Google Home and Amazon.com's Alexa is exploding. These connected devices and their respective applications generate large amounts of data that can be mined to enhance user-friendliness and make predictions about what a user might be likely to

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do next. Microsoft's Azure IoT Suite is a cloud-based platform that is ideal for collecting data from connected devices. You'll learn in this book about data acquisition and analysis, including real-time analysis. Real-world examples are provided to teach you to detect anomalous

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patterns in your data that might lead to business advantage. We live in a time when the amount of data being generated and stored is growing at an exponential rate. Understanding and getting real-time insight into these data is critical to business. IoT Solutions in Microsoft's Azure IoT

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Suite walks you through a complete, end-to-end journey of how to collect and store data from Internet-connected devices. You'll learn to analyze the data and to apply your results to solving real-world problems. Your customers will benefit from the increasingly capable

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and reliable applications that you'll be able to deploy to them. You and your business will benefit from the gains in insight and knowledge that can be applied to delight your customers and increase the value from their business. What You'll Learn Go through data generation,

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collection, and storage from sensors and devices, both relational and non-relational Understand, from end to end, Microsoft's analytic services and where they fit into the analytical ecosystem Look at the Internet of your things and find ways to discover and draw on the insights your data

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can provide Understand Microsoft's IoT technologies and services, and stitch them together for business insight and advantage Who This Book Is For Developers and architects who plan on delivering IoT solutions, data scientists who want to understand how to get better

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insights into their data, and anyone needing or wanting to do real-time analysis of data from the Internet of Things

Start developing Azure Functions and building simple solutions for serverless computing without worrying about infrastructure. With

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the increased need for deploying serverless computing, Azure Functions integrates with other Azure resources. This book is a quick reference and consists of a practical and problem-driven approach with the latest technology. Guided by step-by-step explanations and sample

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projects, you'll set up, build, and deploy Azure Functions to get the most out of this compute-on-demand service. After a foundational introduction to Azure Functions you'll prepare a development environment to serve and process an IoT Telemetry system, create

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Microservices, and monitor Azure Functions services to get application insights. What You'll Learn Review the Interaction between Azure Functions and Azure data services Apply Azure Functions in web applications and build interaction systems for mobile applications

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Develop a serverless micro-service  
Serve and process IoT Telemetry  
systems  
Monitor Azure Functions  
services and get application insights  
Who This Book Is For Developers,  
students, professionals and anyone  
interested in Azure Function  
technology and the Azure platform.

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Introduction to Microsoft Azure IoT

A complete guide to passing the  
70-535 Architecting Microsoft Azure  
Solutions exam

Using Windows 10 IoT Core and  
Azure IoT Suite

Leveraging DevOps and Microservice  
Architecture to deliver SaaS

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Exam Ref 70-535 Architecting  
Microsoft Azure Solutions  
Microsoft Azure Essentials -  
Fundamentals of Azure

Access detailed content and examples  
on Azure SQL, a set of cloud services

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that allows for SQL Server to be deployed in the cloud. This book teaches the fundamentals of deployment, configuration, security, performance, and availability of Azure SQL from the perspective of these same tasks and capabilities in SQL Server. This distinct approach makes

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this book an ideal learning platform for readers familiar with SQL Server on-premises who want to migrate their skills toward providing cloud solutions to an enterprise market that is increasingly cloud-focused. If you know SQL Server, you will love this book. You will be able to take your

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existing knowledge of SQL Server and translate that knowledge into the world of cloud services from the Microsoft Azure platform, and in particular into Azure SQL. This book provides information never seen before about the history and architecture of Azure SQL. Author Bob Ward is a leading

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expert with access to and support from the Microsoft engineering team that built Azure SQL and related database cloud services. He presents powerful, behind-the-scenes insights into the workings of one of the most popular database cloud services in the industry. What You Will Learn Know

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the history of Azure SQL Deploy,  
configure, and connect to Azure SQL  
Choose the correct way to deploy SQL  
Server in Azure Migrate existing SQL  
Server instances to Azure SQL  
Monitor and tune Azure SQL ' s  
performance to meet your needs  
Ensure your data and application are

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highly available Secure your data from  
attack and theft Who This Book Is For  
This book is designed to teach SQL  
Server in the Azure cloud to the SQL  
Server professional. Anyone who  
operates, manages, or develops  
applications for SQL Server will benefit  
from this book. Readers will be able to

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translate their current knowledge of SQL Server—especially of SQL Server 2019—directly to Azure. This book is ideal for database professionals looking to remain relevant as their customer base moves into the cloud. Build your own digital twin in no time!

## Key Features

Build and design simple

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to complex digital twins solutions Create end-to-end solutions with Azure Digital Twins Integrate the Azure Digital Twins service with other Azure services to provide even richer solutions Book Description In today's world, clients are using more and more IoT sensors to monitor their business

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processes and assets. Think about collecting information such as pressure in an engine, the temperature, or a light switch being turned on or off in a room. The data collected can be used to create smart solutions for predicting future trends, creating simulations, and drawing

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insights using visualizations. This makes it beneficial for organizations to make digital twins, which are digital replicas of the real environment, to support these smart solutions. This book will help you understand the concept of digital twins and how it can be implemented using an Azure

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service called Azure Digital Twins. Starting with the requirements and installation of the Azure Digital Twins service, the book will explain the definition language used for modeling digital twins. From there, you'll go through each step of building digital twins using Azure Digital Twins and

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learn about the different SDKs and APIs and how to use them with several Azure services. Finally, you'll learn how digital twins can be used in practice with the help of several real-world scenarios. By the end of this book, you'll be confident in building and designing digital twins and

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integrating them with various Azure services. What you will learn

Understand the concept and architecture of Azure Digital Twins

Get to grips with installing and configuring the service and required tools

Understand the Digital Twin Definition Language (DTDL) and

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digital twin models Explore the APIs  
and SDKs available to access the  
Azure Digital Twins services Monitor,  
troubleshoot, and secure digital  
twins Discover how to build, design,  
and integrate applications with various  
Azure services Explore real-life  
scenarios with Azure Digital Twins Who

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this book is for This book is for Azure developers, Azure architects, and anyone who wants to learn more about how to implement IoT solutions using Azure Digital Twins and additional Azure services. Prior experience using the Azure Portal and a clear understanding of building applications

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using .NET will be helpful.

Your one stop guide to making the most out of Azure Cloud About This Book Get familiar with the different design patterns available in Microsoft Azure Develop Azure cloud architecture and a pipeline management system Get to know the

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security best practices for your Azure deployment Who This Book Is For If you are Cloud Architects, DevOps Engineers, or developers who want to learn key architectural aspects of the Azure Cloud platform, then this book is for you. Prior basic knowledge of the Azure Cloud platform is good to have.

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What You Will Learn Familiarize yourself with the components of the Azure Cloud platform Understand the cloud design patterns Use enterprise security guidelines for your Azure deployment Design and implement Serverless solutions See Cloud architecture and the deployment

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pipeline Understand cost management  
for Azure solutions In Detail Over the  
years, Azure cloud services has grown  
quickly, and the number of  
organizations adopting Azure for their  
cloud services is also gradually  
increasing. Leading industry giants are  
finding that Azure fulfills their

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extensive cloud requirements. This book will guide you through all the important and tough decision-making aspects involved in architecting a Azure public cloud for your organization. The book starts with an extensive introduction to all the categories of designs available with

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Azure. These design patterns focus on different aspects of cloud such as high availability, data management, and so on. Gradually, we move on to various aspects such as building your cloud structure and architecture. It will also include a brief description about different types of services provided by

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Azure, such as Azure functions and Azure Analytics, which can prove beneficial for an organization. This book will cover each and every aspect and function required to develop a Azure cloud based on your organizational requirements. By the end of this book, you will be in a

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position to develop a full-fledged Azure cloud. Style and approach This hands-on guide to the Azure Cloud platform covers different architectural concepts and implementations necessary for any enterprise scale deployment.

**NOW FULLY UPDATED:** high-value Azure Security Center insights, tips,

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and operational solutions Reflecting updates through mid-2019, 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

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help you apply Azure Security Center ' s  
robust protection, detection, and  
response capabilities in key  
operational scenarios. You ' ll walk  
through securing any Azure workload,  
and optimizing key facets of modern  
security, from policies and identity to  
incident response and risk

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management. Brand-new coverage includes single-click remediation, IoT, improved container security, Azure Sentinel, and more. Whatever your security role, you ' ll learn how to save hours, days, or even weeks by solving problems in the most efficient and reliable ways possible. Two of

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Microsoft's leading cloud security experts show how to: Implement a comprehensive new security paradigm designed specifically for cloud and hybrid environments Gain visibility and control to secure all key workloads Incorporate Azure Security Center into your security operations center, and

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integrate 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 fast  
with single-click remediation Use

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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  
Assess IoT device security with the Azure IoT Hub managed service

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Monitor user behavior and access, and investigate compromised or misused credentials Integrate Microsoft ' s new Azure Sentinel Security Information and Event Management (SIEM) platform Customize and perform operating system security baseline assessments About This Book For

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cloud architects, designers,  
implementers, operations  
professionals, and security specialists  
working in Microsoft Azure cloud or  
hybrid environments For all IT  
professionals and decision-makers  
concerned with the security of Azure  
environments

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Over 50 recipes to drive IoT innovation  
with Microsoft Azure About This Book  
Build secure and scalable IoT  
solutions with Azure IoT platform  
Learn techniques to build end to end  
IoT solutions leveraging the Azure IoT  
platform Filled with practical recipes to  
help you increase connectivity and

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automation across IoT devices Who  
This Book Is For If you are an  
application developer and want to  
build robust and secure IoT solution  
for your organization using Azure IoT,  
then this book is for you. What You  
Will Learn Build IoT Solutions using  
Azure IoT & Services Learn device

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configuration and communication  
protocols Understand IoT Suite and  
Pre-configured solutions Manage  
Secure Device communications  
Understand Device management,  
alerts Introduction with IoT Analytics,  
reference IoT Architectures Reference  
Architectures from Industry Pre-

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Configured IoT Suite solutions In  
Detail Microsoft's end-to-end IoT  
platform is the most complete IoT  
offering, empowering enterprises to  
build and realize value from IoT  
solutions efficiently. It is important to  
develop robust and reliable solutions  
for your organization to leverage IoT

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services. This book focuses on how to start building custom solutions using the IoT hub or the preconfigured solution of Azure IoT suite. As a developer, you will be taught how to connect multiple devices to the Azure IoT hub, develop, manage the IoT hub service and integrate the hub with

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cloud. We will be covering REST APIs along with HTTP, MQTT and AMQP protocols. It also helps you learn Pre-Configured IoT Suite solution. Moving ahead we will be covering topics like:-Process device-to-cloud messages and cloud-to-device messages using .Net-Direct methods

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and device management-Query Language, Azure IoT SDK for .Net- Creating and managing, Securing IoT hub, IoT Suite and many more. We will be using windows 10 IoT core, Visual Studio, universal Windows platform. At the end, we will take you through IoT analytics and provide a demo of

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connecting real device with Azure IoT.

Style and approach A set of exciting recipes of using Microsoft Azure IoT more effectively.

Building a Next-Generation Application from the Ground Up

Innovations in Smart Cities

Applications Edition 3

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Azure Internet of Things Revealed

Data Acquisition and Analysis in the  
Real World

Application Performance Management  
in the Cloud

Enterprise Internet of Things  
Handbook

A practical guide to building distributed

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Do you recognize Microsoft Azure IoT solutions achievements? What are the revised rough estimates of the financial savings/opportunity for Microsoft Azure IoT solutions improvements? How do you

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manage Microsoft Azure IoT solutions Knowledge Management (KM)? What role does communication play in the success or failure of a Microsoft Azure IoT solutions project? What are the current costs of the Microsoft Azure

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IoT solutions process? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking

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a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask

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the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to

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do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Microsoft Azure IoT Solutions investments

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work better. This Microsoft Azure IoT Solutions All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Microsoft Azure IoT Solutions Self-Assessment. Featuring 945 new and updated

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case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Microsoft Azure IoT Solutions improvements can be made. In using the questions you will be

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better able to: - diagnose Microsoft  
Azure IoT Solutions projects,  
initiatives, organizations,  
businesses and processes using  
accepted diagnostic standards and  
practices - implement evidence-  
based best practice strategies

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aligned with overall goals -  
integrate recent advances in  
Microsoft Azure IoT Solutions and  
process design strategies into  
practice according to best practice  
guidelines Using a Self-  
Assessment tool known as the

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Microsoft Azure IoT Solutions Scorecard, you will develop a clear picture of which Microsoft Azure IoT Solutions areas need attention. Your purchase includes access details to the Microsoft Azure IoT Solutions self-assessment

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dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick

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edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar

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with results generation - In-depth  
and specific Microsoft Azure IoT  
Solutions Checklists - Project  
management checklists and  
templates to assist with  
implementation INCLUDES  
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accurate information at your  
fingertips.

Accelerate hybrid cloud innovation  
using Azure Arc with the help of  
real-world scenarios and examples  
Key Features  
Get to grips with  
setting up and working with Azure

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ArchHarness the power of Azure Arc  
and its integration with cutting-edge  
technologies such as Kubernetes  
and PaaS data services Manage,  
govern, and monitor your on-  
premises servers and applications  
with Azure Book Description With all

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the options available for deploying infrastructure on multi-cloud platforms and on-premises comes the complexity of managing it, which is adeptly handled by Azure Arc. This book will show you how you can manage environments

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across platforms without having to migrate workloads from on-premises or multi-cloud to Azure every time. Implementing Hybrid Cloud with Azure Arc starts with an introduction to Azure Arc and hybrid cloud computing, covering use

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cases and various supported topologies. You'll learn to set up Windows and Linux servers as Arc-enabled machines and get to grips with deploying applications on Kubernetes clusters with Azure Arc and GitOps. The book then

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demonstrates how to onboard an on-premises SQL Server infrastructure as an Arc-enabled SQL Server and deploy and manage a hyperscale PostgreSQL infrastructure on-premises through Azure Arc. Along with deployment,

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the book also covers security, backup, migration, and data distribution aspects. Finally, it shows you how to deploy and manage Azure's data services on your own private cloud and explore multi-cloud solutions with Azure

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Arc. By the end of this book, you'll have a firm understanding of Azure Arc and how it interacts with various cutting-edge technologies such as Kubernetes and PaaS data services. What you will learn Set up a fully functioning Azure Arc-

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managed environment Explore  
products and services from Azure  
that will help you to leverage Azure  
Arc Understand the new vision of  
working with on-premises  
infrastructure Deploy Azure's PaaS  
data services on-premises or on

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In The Real World  
other cloud platforms Discover and  
learn about the technologies  
required to design a hybrid and  
multi-cloud strategy Implement best  
practices to govern your IT  
infrastructure in a scalable  
model Who this book is for This

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book is for Cloud IT professionals (Azure and/or AWS), system administrators, database administrators (DBAs), and architects looking to gain clarity about how Azure Arc works and how it can help them achieve

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business value. Anyone with basic Azure knowledge will benefit from this book.

Get familiar with the building blocks of IoT solutions using off-the-shelf IoT platforms. Key Features Work with various trending IoT platforms

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such as AWS IoT, Azure IoT,  
Google IoT, IBM Watson IoT, and  
Kaa IoT Gain hands-on knowledge  
working with Cloud-based IoT  
platforms, IoT Analytics, and so on.  
A practical guide that will help you  
build IoT strategies for your

# Get Free IoT Solutions In Microsoft's Azure IoT Suite: Data Acquisition And Analysis organization Book Description

There is a lot of work that is being done in the IoT domain and according to Forbes the global IoT market will grow from \$157B in 2016 to \$457B by 2020. This is an amazing market both in terms

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technology advancement as well as money. In this book, we will be covering five popular IoT platforms, namely, AWS IoT, Microsoft Azure IoT, Google IoT Core, IBM Watson IoT, and Kaa IoT middleware. You are going to build solutions that will

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use a Raspberry Pi 3, a DHT11 Temperature and humidity sensor, and a dashboard to visualize the sensor data in real-time.

Furthermore, you will also explore various components of each of the platforms that are needed to

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achieve the desired solution.

Besides building solutions, you will look at how Machine Learning and IoT go hand in hand and later design a simple predictive web service based on this concept. By the end of this book, you will be in a

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position to implement an IoT  
strategy best-fit for your  
organization What you will learn  
Connect a Temperature and  
Humidity sensor and see how these  
two can be managed from various  
platforms Explore the core

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components of AWS IoT such as  
AWS Kinesis and AWS IoT Rules  
Engine Build a simple analysis  
dashboard using Azure IoT and  
Power BI Understand the  
fundamentals of Google IoT and  
use Google core APIs to build your

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own dashboard Get started and  
work with the IBM Watson IoT  
platform Integrate Cassandra and  
Zeppelin with Kaa IoT dashboard  
Review some Machine Learning  
and AI and get to know more about  
their implementation in the IoT

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domain. Who this book is for This book is targeted at IoT architects and engineers, or any stakeholders working with IoT solutions in an organization. This book will also help decision makers and professionals from small- and

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medium-sized enterprises build an IoT strategy for their venture.

Bring the power of Microsoft Azure Hybrid Cloud technology to your datacenter. About This Book Build and deploy software-defined infrastructures and deliver Azure-

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based IaaS and PaaS services in  
your datacenter Use Azure Stack to  
leverage your current infrastructure  
with Microsoft Hybrid Cloud and get  
the best of both worlds Unlock  
greater levels of performance and  
flexibility and save your

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organization money, time, and resources Who This Book Is For  
The book is for administrators and architects who are planning to implement or administer a hybrid cloud infrastructure using Microsoft Cloud Technology. This book is

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ideal for those who are looking forward to implement and run a hybrid cloud infrastructure with PaaS, SaaS and IaaS services. What You Will Learn Gain a clear understanding of Azure Stack design Set up storage, network and

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compute services in Azure Stack  
Implement and run a hybrid cloud  
infrastructure with PaaS, SaaS, and  
IaaS services Get an overview of  
the automation options in Azure  
Stack Integrate Azure public  
services such as multi-factor

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authentication and Azure AD with  
Azure Stack Learn about the  
services available in the future In  
Detail Azure Stack is all about  
creating fewer gaps between on-  
premise and public cloud  
application deployment. Azure

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Stack is the next logical evolution of Microsoft Cloud Services to create a true Hybrid Cloud-ready application. This book provides an introduction to Microsoft Azure Stack and the Cloud First Approach. Starting with an

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introduction to Microsoft Azure Stack Architecture, the book will help you plan and deploy your Microsoft Azure Stack. Next, you will learn about the Network and Storage option in Microsoft Azure Stack and you'll create your own

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private cloud solution. Finally, you will understand how to integrate Public Cloud Services with Microsoft Azure Stack and extend it using the 3rd Party Resource Provider. After reading the book, you will have a good understanding

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of an end-to-end process for designing, implementing, offering, and supporting cloud solutions for enterprises or service providers. Style and approach This book is a practical guide to help you unlock a hybrid cloud stack using Azure

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Stack. Using a straight forward and easy to implement approach, this book guides you through the basic planning for a hybrid cloud stack, describes the infrastructure technologies Azure Stack is based on, and explains how to deploy and

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administer an Azure Stack-based infrastructure.

Build a strong and efficient IoT solution at industrial and enterprise level by mastering industrial IoT using Microsoft Azure. This book focuses on the development of the

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industrial Internet of Things (IIoT) paradigm, discussing various architectures, as well as providing nine case studies employing IoT in common industrial domains including medical, supply chain, finance, and smart homes. The

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book starts by giving you an overview of the basic concepts of IoT, after which you will go through the various offerings of the Microsoft Azure IoT platform and its services. Next, you will get hands-on experience of IoT applications in

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various industries to give you a better picture of industrial solutions and how you should take your industry forward. As you progress through the chapters, you will learn real-time applications in IoT in agriculture, supply chain, financial

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services, retail, and transportation. Towards the end, you will gain knowledge to identify and analyze IoT security and privacy risks along with a detailed sample project. The book fills an important gap in the learning of IoT and its practical use

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case in your industry. Therefore, this is a practical guide that helps you discover the technologies and use cases for IIoT. By the end of this book, you will be able to build industrial IoT solution in Microsoft Azure with sensors, stream

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analytics, and serverless  
technologies. What You Will Learn  
Provision, configure, and connect  
devices with Microsoft Azure IoT  
hub Stream analytics using  
structural data and non-structural  
data such as images Use stream

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analytics, serverless technology,  
and IoT SaaS offerings Work with  
common sensors and IoT devices  
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architects, developers, and  
stakeholders working with the  
industrial Internet of Things.

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The Proceedings of the 4th  
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Hands-On Edge Analytics with  
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Azure IoT Development

Transform your business with the  
power of analytics in Azure, 2nd  
Edition

Internet of Things for Architects

Enterprise Cloud epUB \_1

**This comprehensive overview**

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of IoT systems architecture includes in-depth treatment of all key components: edge, communications, cloud, data processing, security, management, and uses.

Internet of Things: Concepts and System Design provides a

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reference and foundation for students and practitioners that they can build upon to design IoT systems and to understand how the specific parts they are working on fit into and interact with the rest of the system. This

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is especially important since IoT is a multidisciplinary area that requires diverse skills and knowledge including:  
sensors, embedded systems, real-time systems, control systems, communications,

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protocols, Internet, cloud computing, large-scale distributed processing and storage systems, AI and ML, (preferably) coupled with domain experience in the area where it is to be applied, such as building or

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manufacturing automation.

Written in a reader-minded approach that starts by describing the problem (why should I care?), placing it in context (what does this do and where/how does it fit in the great scheme of

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things?) and then describing salient features of solutions (how does it work?), this book covers the existing body of knowledge and design practices, but also offers the author's insights and articulation of

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common attributes and  
salient features of  
solutions such as IoT  
information modeling and  
platform characteristics.  
Use this collection of best  
practices and tips for  
assessing the health of a

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solution. This book provides  
detailed techniques and  
instructions to quickly  
diagnose aspects of your  
Azure cloud solutions. The  
initial chapters of this  
book introduce you to the  
many facets of Microsoft

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Azure, explain why and how building for the cloud differs from on-premise development, and outline the need for a comprehensive strategy to debugging and profiling in Azure. You learn the major types of

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blades (FaaS, SaaS, PaaS,  
IaaS), how different views  
can be created for different  
scenarios, and you will  
become familiar with the  
Favorites section, Cost  
Management & Billing blade,  
support, and Cloud Shell.

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You also will know how to  
leverage Application  
Insights for application  
performance management, in  
order to achieve a seamless  
cloud development  
experience. Application  
Insights, Log Analytics, and

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database storage topics are covered. The authors further guide you on identity security with Azure AD and continuous delivery with CI and CD covered in detail along with the capabilities of Azure DevOps. And you are

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exposed to external tooling  
and trouble shooting in a  
production environment.  
After reading this book, you  
will be able to apply  
methods to key Azure  
services, including App  
Service (Web Apps, Function

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Apps, and Logic Apps), Cloud  
Services, Azure Container  
Service, Azure Active  
Directory, Azure Storage,  
Azure SQL Database, Cosmos  
DB, Log Analytics, and many  
more. What You Will  
LearnDebug and manage the

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performance of your  
applications Leverage  
Application Insights for  
application performance  
management Extend and  
automate CI/CD with the help  
of various build tools,  
including Azure DevOps,

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TeamCity, and Cake

bootstrapper Who This Book  
Is For Application  
developers, designers, and  
DevOps personnel who want to  
find a one-stop shop in best  
practices for managing their  
application's performance in

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the cloud and for debugging  
the issues accordingly  
Learn Azure in a Month of  
Lunches, Second Edition, is  
a tutorial on writing,  
deploying, and running  
applications in Azure. In  
it, you'll work through 21

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short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills.

Summary You can be incredibly productive with Azure without mastering

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every feature, function, and  
service. Learn Azure in a  
Month of Lunches, Second  
Edition gets you up and  
running quickly, teaching  
you the most important  
concepts and tasks in 21  
practical bite-sized

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lessons. As you explore the examples, exercises, and labs, you'll pick up valuable skills immediately and take your first steps to Azure mastery! This fully revised new edition covers core changes to the Azure

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technology Microsoft Azure is vast and powerful, offering virtual servers, application templates, and prebuilt services for everything from data storage to AI. To navigate it all, you need a trustworthy

# Get Free IoT Solutions In Microsoft's Azure IoT Suite: Data Acquisition And Analysis guide. In this book,

Microsoft engineer and Azure  
trainer Iain Foulds focuses  
on core skills for creating  
cloud-based applications.  
About the book Learn Azure  
in a Month of Lunches,  
Second Edition, is a

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tutorial on writing,  
deploying, and running  
applications in Azure. In  
it, you'll work through 21  
short lessons that give you  
real-world experience. Each  
lesson includes a hands-on  
lab so you can try out and

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What's inside Understanding  
Azure beyond point-and-click  
Securing applications and  
data Automating your  
environment Azure services  
for machine learning,  
containers, and more About

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the reader This book is for  
readers who can write and  
deploy simple web or  
client/server applications.  
About the author Iain Foulds  
is an engineer and senior  
content developer with  
Microsoft. Table of Contents

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Serverless computing  
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series of free ebooks  
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your technical skills with  
Microsoft Azure. This third  
ebook in the series  
introduces Microsoft Azure  
Machine Learning, a service  
that a developer can use to

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build predictive analytics models (using training datasets from a variety of data sources) and then easily deploy those models for consumption as cloud web services. The ebook presents an overview of modern data

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science theory and principles, the associated workflow, and then covers some of the more common machine learning algorithms in use today. It builds a variety of predictive analytics models using real

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world data, evaluates  
several different machine  
learning algorithms and  
modeling strategies, and  
then deploys the finished  
models as machine learning  
web services on Azure within  
a matter of minutes. The

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ebook also expands on a  
working Azure Machine  
Learning predictive model  
example to explore the types  
of client and server  
applications you can create  
to consume Azure Machine  
Learning web services. Watch

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Infrastructure , 1/e three  
leading experts show how to  
plan, deploy, and operate  
Microsoft Azure with  
outstanding levels of  
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with Microsoft's integrated  
tools, prebuilt templates,  
and managed services—and use  
these to help safely build  
and manage any enterprise,  
mobile, web, or Internet of  
Things (IoT) system. The  
authors guide you through

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enforcing, managing, and  
verifying robust security at  
physical, network, host,  
application, and data  
layers. You'll learn best  
practices for security-aware  
deployment, operational  
management, threat

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mitigation, and continuous improvement—so you can help protect all your data, make services resilient to attack, and stay in control no matter how your cloud systems evolve. Three Microsoft Azure experts show

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you how to:

- Understand cloud security boundaries and responsibilities
- Plan for compliance, risk management, identity/access management, operational security, and endpoint and data protection
- Explore

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Azure's defense-in-depth security architecture • Use Azure network security patterns and best practices • Help safeguard data via encryption, storage redundancy, rights management, database

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security, and storage  
security • Help protect  
virtual machines with  
Microsoft Antimalware for  
Azure Cloud Services and  
Virtual Machines • Use the  
Microsoft Azure Key Vault  
service to help secure

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cryptographic keys and other  
confidential information •

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Azure and on-premises

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analytical solutions  
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Beginning Azure IoT Edge  
Computing

IoT, AI, and Blockchain for  
.NET

Design, build, and  
justify an optimal

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Microsoft IoT footprint  
to meet your project  
needs. This book  
describes common  
Internet of Things  
components and  
architecture and then

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focuses on Microsoft's  
Azure components  
relevant in deploying  
these solutions.

Microsoft-specific  
topics addressed  
include: deploying edge

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devices and pushing intelligence to the edge; connecting IoT devices to Azure and landing data there, applying Azure Machine Learning, analytics, and

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Cognitive Services;  
In The Real World  
roles for Microsoft  
solution accelerators  
and managed solutions;  
and integration of the  
Azure footprint with  
legacy infrastructure.

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The book concludes with a discussion of best practices in defining and developing solutions and creating a plan for success. What You Will Learn Design the right

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IoT architecture to  
deliver solutions for a  
variety of project needs  
Connect IoT devices to  
Azure for data  
collection and delivery  
of services Use Azure

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Machine Learning and  
Cognitive Services to  
deliver intelligence in  
cloud-based solutions  
and at the edge  
Understand the benefits  
and tradeoffs of

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Microsoft's solution accelerators and managed solutions Investigate new use cases that are described and apply best practices in deployment strategies Integrate

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cutting-edge Azure  
deployments with  
existing legacy data  
sources Who This Book Is  
For Developers and  
architects new to IoT  
projects or new to

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components as well as  
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Manage and control  
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devices from Windows and  
Raspberry Pi. Master the  
Windows 10 IoT Core  
application programming  
interface and feature

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set to develop Internet  
of Things applications  
on the Raspberry Pi  
using your Windows and  
.NET programming skills.  
New in this edition is  
coverage of enterprise-

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level tools and features  
in the Windows 10 IoT  
Enterprise server  
operating system,  
allowing you to manage  
IoT solutions having  
large numbers of devices

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and to deploy applications to enterprise-grade hardware. Windows 10 for the Internet of Things presents a set of example projects

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covering a wide range of  
techniques designed  
specifically to jump  
start your own Internet  
of Things creativity.  
You'll learn everything  
you need to know about

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Windows IoT Core to develop Windows and IoT applications that run on single board computers such as the Raspberry Pi. You'll learn to develop for the

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Raspberry PI using  
native Windows and all  
the related programming  
skills that you have  
built up from developing  
desktop and mobile  
applications. This book

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provides just the help  
you need to get started  
in putting your Windows  
skills to use in a  
burgeoning new world of  
development for small  
devices that are

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ubiquitously connected  
to the Internet. What  
You Will Learn Know  
Windows 10 on the  
Raspberry Pi Read sensor  
data and control  
actuators Connect to and

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transmit data into the  
cloud Remotely control  
your devices from any  
Windows device Develop  
IOT applications under  
Windows using C#, C++,  
and Visual Basic Store

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Is For Developers and  
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Windows development and

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connect everyday devices  
to the Internet by  
developing for Windows  
10 IoT Core. Readers  
learn to develop in C#,  
C++, and Visual Basic  
using Visual Studio, for

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deployment on devices  
such as the Raspberry  
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world mastery of

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architecting complete  
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on the critical thinking  
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acumen needed for  
success at the MCSA  
level. Focus on the  
expertise measured by

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these objectives: Design  
compute infrastructure  
Design data  
implementation Design  
networking  
implementation Design  
security and identity

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solutions Design  
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solutions by using  
platform services Design  
for operations This  
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strategic, what-if  
scenarios to challenge  
you Includes DevOps and  
hybrid technologies and  
scenarios Assumes you  
have experience building  
infrastructure and

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architects and  
developers up-to-date  
with the latest updates  
on Azure from an  
architecture and design  
perspective. The book  
includes all the topics

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that are still relevant  
from the previous 70-534  
exam, and is updated  
with latest topics  
covered, including  
Artificial Intelligence,  
IoT, and architecture

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styles. This exam guide is divided into six parts, where the first part will give you a good understanding of how to design a compute infrastructure. It also

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dives into designing networking and data implementations. You will learn about designing solutions for Platform Service and operations. Next, you

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will be able to secure your resources and data, as well as design a mechanism for governance and policies. You will also understand the objective of designing

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solutions for Platform  
Services, by covering  
Artificial Intelligence,  
IoT, media services, and  
messaging solution  
concepts. Finally, you  
will cover the designing

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for operations  
objective. This  
objective covers  
application and platform  
monitoring, as well as  
designing alerting  
strategies and

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operations automation  
strategies. By the end  
of the book, you'll have  
met all of the exam  
objectives, and will  
have all the information  
you need to ace the

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70-535 exam. You will  
also have become an  
expert in designing  
solutions on Microsoft  
Azure. What you will  
learn Use Azure Virtual  
Machines to design

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effective VM deployments  
Implement architecture  
styles, like serverless  
computing and  
microservices Secure  
your data using  
different security

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features and design  
effective security  
strategies Design Azure  
storage solutions using  
various storage features  
Create identity  
management solutions for

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solutions using  
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IoT, and Azure Media  
Services Use different

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automation solutions  
that are incorporated in  
the Azure platform Who  
this book is for This  
book is for architects  
and experienced  
developers, who are

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gearing up for the  
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architects interested in  
learning more about  
designing Cloud  
solutions will also find  
this book useful.

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Create real-world  
enterprise solutions  
with NAV, Cloud, and the  
Microsoft stack About  
This Book Integrate NAV  
with various offerings  
of the Microsoft stack

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to create enterprise-  
ready and service-  
oriented solutions Use  
Power BI and Universal  
Windows Platform for  
effective data analysis  
and real-time tracking

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with NAV Discover the  
services offered by  
Microsoft Azure and  
implement them in  
different industries  
using real-world case  
scenarios Who This Book

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Is For This book is for  
NAV developers and  
solution architects who  
need to implement real-  
world enterprise  
solutions based on  
Microsoft Dynamics NAV.

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Knowledge of the NAV programming language (C/AL) and C# language is recommended.

Knowledge of ASP.NET and Visual Studio development would help,

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but is not necessary.

What You Will Learn

Configure NAV Web

Services and create

external applications

with Visual Studio,

.NET, and .NET Core

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Solve technical  
architectural problems  
by implementing  
enterprise solutions  
with NAV Develop  
applications and  
solutions with Microsoft

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Dynamics NAV and the  
Microsoft technology  
stack Create a Power BI  
dashboard for rich  
reporting and NAV data  
analysis Find out how to  
transmit your device

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location from a UWP application to NAV in order to implement a distributed solution for managing couriers in a sales company Make the most of Microsoft Azure

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and its services Create  
enterprise solutions  
with NAV by using Azure  
App Service Use Azure  
Service Bus for managing  
distributed NAV  
applications In Detail

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Implementing Microsoft Dynamics NAV in the real world often requires you to integrate the ERP with external applications or solve complex architectural

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tasks in order to have a  
final successful  
project. This book will  
show you how to extend a  
Microsoft Dynamics NAV  
installation to the  
enterprise world in a

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practical way. The book  
starts with an  
introduction to  
Microsoft Dynamics NAV  
architecture and then  
moves on to advanced  
topics related to

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implementing real-world solutions based on NAV and external applications. You will learn how an enterprise distributed architecture with NAV at the core can

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be implemented. Through a series of real-world cases on every topic and every industry (sales, retail, manufacturing, distribution, healthcare, and so on),

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you'll see step by step  
how to efficiently solve  
a technical problem.  
These common problems  
encountered in a NAV  
implementation will be  
solved using the entire

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technology stack that Microsoft offers. By the end of the book, you will have the knowledge to efficiently solve certain scenarios, you will know which is the

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best solution  
architecture to propose  
to a customer and how to  
implement it. Style and  
approach Taking you  
through a variety of  
real-world use cases,

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the book will show you  
step by step all you  
need to know to tackle  
these problems and give  
you creative ideas to  
implement in related  
problems you might come

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across in the real  
world.

Architecting Microsoft  
Azure Solutions – Exam  
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Build modern data  
warehouses with the

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Guide - 2020 Edition  
Microsoft Application

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Designing Internet of  
Things with Microsoft  
Azure  
Programming for the  
Internet of Things  
Leverage the power of Azure to

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get efficient data insights from  
your big data in real time Key  
Features Explore the basics of  
cloud analytics using Azure  
Discover different ways to  
process and visualize your data  
easily Learn to use Azure

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Synapse Analytics (formerly known as Azure SQL Data Warehouse) to derive real-time customer insights Book Description With data being generated at an exponential speed, organizations all over the

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world are migrating their infrastructure to the cloud.

Application management becomes much easier when you use a cloud platform to build, manage, and deploy your services and applications. Cloud

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Analytics with Microsoft Azure covers all that you need to extract useful insights from your data. You'll explore the power of data with big data analytics, the Internet of Things (IoT), machine learning,

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artificial intelligence, and DataOps. You ' ll also delve into data analytics by studying use cases that focus on creating actionable insights from near-real-time data. As you advance, you ' ll learn to build an end-to-

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end analytics pipeline on the cloud with machine learning and deep learning concepts. By the end of this book, you'll have developed a solid understanding of data analytics with Azure and its practical implementation.

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What you will learn Explore the  
concepts of modern data  
warehouses and data pipelines  
Discover different design  
considerations while applying a  
cloud analytics solution Design  
an end-to-end analytics pipeline

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on the cloud Differentiate  
between structured, semi-  
structured, and unstructured  
data Choose a cloud-based  
service for your data analytics  
solutions Use Azure services to  
ingest, store and analyze data of

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any scale Who this book is for If  
you 're planning to adopt the  
cloud analytics model for your  
business, this book will help you  
understand the design and  
business considerations that  
you must keep in mind. Though

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not necessary, a basic understanding of data analytics concepts such as data streaming, data types, the machine learning life cycle, and Docker containers will help you get the most out of the book.

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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

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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

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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-

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growing feature set that the cloud offers to gain strategic and competitive advantage. Discover high-value Azure security insights, tips, and operational optimizations This book presents comprehensive

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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

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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

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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

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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

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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

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- 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

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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

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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

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and access, and investigate compromised or misused credentials

- Customize and perform operating system security baseline assessments
- Leverage integrated threat intelligence to identify known

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bad actors

Design, secure, and protect the  
privacy of edge analytics  
applications using platforms and  
tools such as Microsoft's Azure  
IoT Edge, MicroPython, and  
Open Source Computer Vision

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(OpenCV) Key Features Become  
well-versed with best practices  
for implementing automated  
analytical computations Discover  
real-world examples to extend  
cloud intelligence Develop your  
skills by understanding edge

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analytics and applying it to  
research activities

Book  
Description Edge analytics has  
gained attention as the IoT  
model for connected devices  
rises in popularity. This guide  
will give you insights into edge

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analytics as a data analysis model, and help you understand why it ' s gaining momentum. You'll begin with the key concepts and components used in an edge analytics app. Moving ahead, you'll delve into

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communication protocols to understand how sensors send their data to computers or microcontrollers. Next, the book will demonstrate how to design modern edge analytics apps that take advantage of the

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processing power of modern  
single-board computers and  
microcontrollers. Later, you'll  
explore Microsoft Azure IoT  
Edge, MicroPython, and the  
OpenCV visual recognition  
library. As you progress, you'll

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cover techniques for processing  
AI functionalities from the  
server side to the sensory side  
of IoT. You'll even get hands-on  
with designing a smart doorbell  
system using the technologies  
you ' ve learned. To remove

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vulnerabilities in the overall edge analytics architecture, you'll discover ways to overcome security and privacy challenges. Finally, you'll use tools to audit and perform real-time monitoring of incoming

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data and generate alerts for the infrastructure. By the end of this book, you'll have learned how to use edge analytics programming techniques and be able to implement automated analytical computations. What

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you will learn Discover the key  
concepts and architectures used  
with edge analytics Understand  
how to use long-distance  
communication protocols for  
edge analytics Deploy Microsoft  
Azure IoT Edge to a Raspberry

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PiCreate Node-RED dashboards  
with MQTT and Text to Speech  
(TTS)Use MicroPython for  
developing edge analytics  
appsExplore various machine  
learning techniques and  
discover how machine learning

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is related to edge analytics Use  
camera and vision recognition  
algorithms on the sensory side  
to design an edge analytics  
app Monitor and audit edge  
analytics apps Who this book is  
for If you are a data analyst,

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data architect, or data scientist who is interested in learning and practicing advanced automated analytical computations, then this book is for you. You will also find this book useful if you ' re looking to

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learn edge analytics from scratch. Basic knowledge of data analytics concepts is assumed to get the most out of this book.

This book highlights original research and recent advances in

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various fields related to smart cities and their applications. It gathers papers presented at the Fourth International Conference on Smart City Applications (SCA19), held on October 2 – 4, 2019, in Casablanca, Morocco.

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Bringing together contributions by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer science, electrical engineering,

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and urban sciences. It is also an excellent reference guide for professionals, researchers, and academics in the field of smart cities. This book covers topics including:

- Smart Citizenship
- Smart Education
- Digital

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- New Generation of Networks and Systems for Smart Cities
- Smart Grids and Electrical Engineering
- Smart Mobility
- Smart Security

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Internet of Things: Concepts  
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Azure Machine Learning

Mastering Azure Analytics

Azure for Architects

Extending the Cloud to the

Intelligent Edge

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your big data in real time using a range of  
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Features Updated with the latest features  
and new additions to Microsoft  
Azure Master the fundamentals of cloud  
analytics using Azure Learn to use Azure  
Synapse Analytics (formerly known as  
Azure SQL Data Warehouse) to derive

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Description Cloud Analytics with  
Microsoft Azure serves as a comprehensive  
guide for big data analysis and processing  
using a range of Microsoft Azure features.  
This book covers everything you need to  
build your own data warehouse and learn  
numerous techniques to gain useful

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insights by analyzing big data The book begins by introducing you to the power of data with big data analytics, the Internet of Things (IoT), machine learning, artificial intelligence, and DataOps. You will learn about cloud-scale analytics and the services Microsoft Azure offers to empower businesses to discover insights.

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You will also be introduced to the new features and functionalities added to the modern data warehouse. Finally, you will look at two real-world business use cases to demonstrate high-level solutions using Microsoft Azure. The aim of these use cases will be to illustrate how real-time data can be analyzed in Azure to derive

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meaningful insights and make business decisions. You will learn to build an end-to-end analytics pipeline on the cloud with machine learning and deep learning concepts. By the end of this book, you will be proficient in analyzing large amounts of data with Azure and using it effectively to benefit your organization. What you will

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learnExplore the concepts of modern data  
warehouses and data pipelinesDiscover  
unique design considerations while  
applying a cloud analytics solutionDesign  
an end-to-end analytics pipeline on the  
cloudDifferentiate between structured,  
semi-structured, and unstructured  
dataChoose a cloud-based service for your

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data analytics solutions Use Azure services to ingest, store, and analyze data of any scale Who this book is for This book is designed to benefit software engineers, Azure developers, cloud consultants, and anyone who is keen to learn the process of deriving business insights from huge amounts of data using Azure. Though not

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necessary, a basic understanding of data analytics concepts such as data streaming, data types, the machine learning life cycle, and Docker containers will help you get the most out of the book.

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with

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Microsoft Azure. The first ebook in the series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: Azure

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Apres

Helps users understand the breadth of Azure services by organizing them into a reference framework they can use when crafting their own big-data analytics solution.

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In the race to compete in today ' s fast-moving markets, large enterprises are busy adopting new technologies for creating new products, processes, and business models. But one obstacle on the road to digital transformation is placing too much emphasis on technology, and not enough on the types of processes technology

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enables. What if different lines of business could build their own services and applications—and decision-making was distributed rather than centralized? This report explores the concept of a digital business platform as a way of empowering individual business sectors to act on data in real time. Much innovation in a digital

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enterprise will increasingly happen at the edge, whether it involves business users (from marketers to data scientists) or IoT devices. To facilitate the process, your core IT team can provide these sectors with the digital tools they need to innovate quickly. This report explores: Key cultural and organizational changes for developing

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business capabilities through cross-functional product teams A platform for integrating applications, data sources, business partners, clients, mobile apps, social networks, and IoT devices Creating internal API programs for building innovative edge services in low-code or no-code environments Tools including

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The challenge of integrating microservices and serverless architectures Event-driven architectures for processing and reacting to events in real time You ' It also learn about a complete pervasive integration

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solution as a core component of a digital business platform to serve every audience in your organization.

Cloud Debugging and Profiling in  
Microsoft Azure

Practical Azure Functions

Windows 10 for the Internet of Things

Microsoft Azure Security Center

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Designing Distributed Systems

Cloud Analytics with Microsoft Azure

Microservices, IoT and Azure

*Design, secure, and protect  
the privacy of edge  
analytics applications using  
platforms and tools such as  
Microsoft's Azure IoT Edge,*

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*MicroPython, and Open Source  
Computer Vision (OpenCV) Key  
Features Become well-versed  
with best practices for  
implementing automated  
analytical computations  
Discover real-world examples  
to extend cloud intelligence*

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*Develop your skills by understanding edge analytics and applying it to research activities Book Description Edge analytics has gained attention as the IoT model for connected devices rises in popularity. This guide*

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*will give you insights into edge analytics as a data analysis model and help you understand why it's gaining momentum. You'll begin with the key concepts and components used in an edge analytics app. Moving ahead,*

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*you'll delve into communication protocols to understand how sensors send their data to computers or microcontrollers. Next, the book will demonstrate how to design modern edge analytics apps that take advantage of*

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*the processing power of  
modern single-board  
computers and  
microcontrollers. Later,  
you'll explore Microsoft  
Azure IoT Edge, MicroPython,  
and the OpenCV visual  
recognition library. As you*

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*progress, you'll cover  
techniques for processing AI  
functionalities from the  
server-side to the sensory  
side of IoT. You'll even get  
hands-on with designing a  
smart doorbell system using  
the technologies you've*

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*learned. To remove vulnerabilities in the overall edge analytics architecture, you'll discover ways to overcome security and privacy challenges. Finally, you'll use tools to audit and*

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*perform real-time monitoring  
of incoming data and  
generate alerts for the  
infrastructure. By the end  
of this book, you'll have  
learned how to use edge  
analytics programming  
techniques and be able to*

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*implement automated  
analytical computations.*

*What you will learn Discover  
the key concepts and  
architectures used with edge  
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use long-distance  
communication protocols for*

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Microsoft Azure IoT Edge to  
a Raspberry Pi Create Node-  
RED dashboards with MQTT and  
Text to Speech (TTS) Use  
MicroPython for developing  
edge analytics apps Explore  
various machine learning

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*techniques and discover how  
machine learning is related  
to edge analytics Use camera  
and vision recognition  
algorithms on the sensory  
side to design an edge  
analytics app Monitor and  
audit edge analytics apps*

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*Who this book is for If you are a data analyst, data architect, or data scientist interested in learning and practicing advanced automated analytical computations, this book is for you. You will also find*

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*this book useful if you're  
looking to learn edge  
analytics from scratch.  
Basic knowledge of data  
analytics concepts is  
assumed to get the most out  
of this book.*

*Use a step-by-step process*

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*to create and deploy your  
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solution. Modern day  
developers and architects in  
today's cloud-focused world  
must understand when it  
makes sense to leverage the  
cloud. Computing on the edge*

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*is a new paradigm for most  
people. The Azure IoT Edge  
platform uses many existing  
technologies that may be  
familiar to developers, but  
understanding how to  
leverage those technologies  
in an edge computing*

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scenario can be challenging.

*Beginning Azure IoT Edge  
Computing demystifies  
computing on the edge and  
explains, through concrete  
examples and exercises, how  
and when to leverage the  
power of intelligent edge*

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*computing. It introduces the possibilities of intelligent edge computing using the Azure IoT Edge platform, and guides you through hands-on exercises to make edge computing approachable, understandable, and highly*

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*useful. Through user-  
friendly discussion you will  
not only understand how to  
build edge solutions, but  
also when to build them. By  
explaining some common  
solution patterns, the  
decision on when to use the*

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*cloud and when to avoid the  
cloud will become much  
clearer. What You'll Learn  
Create and deploy Azure IoT  
Edge solutions Recognize  
when to leverage the  
intelligent edge pattern and  
when to avoid it Leverage*

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*the available developer tooling to develop and debug IoT Edge solutions Know which off-the-shelf edge computing modules are available Become familiar with some of the lesser-known device protocols used*

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securely deploy and  
bootstrap an IoT Edge  
device Explore related topics  
such as containers and  
secure device provisioning  
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*Developers or architects who want to understand edge computing and when and where to use it. Readers should be familiar with C# or Python and have a high-level understanding of the Azure IoT platform.*

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*This book provides practical guidance for adopting a high velocity, continuous delivery process to create reliable, scalable, Software-as-a-Service (SaaS) solutions that are designed and built using a*

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*microservice architecture,  
deployed to the Azure cloud,  
and managed through  
automation. Microservices,  
IoT, and Azure offers  
software developers,  
architects, and operations  
engineers' step-by-step*

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*directions for building SaaS  
applications—applications  
that are available 24x7,  
work on any device, scale  
elastically, and are  
resilient to change—through  
code, script, exercises, and  
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implementation. The book  
provides a working  
definition of microservices  
and contrasts this approach  
with traditional monolithic  
Layered Architecture. A  
fictitious, homebiomedical  
startup is used to

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*demonstrate microservice  
architecture and automation  
capabilities for cross-  
cutting and business  
services as well as  
connected device scenarios  
for Internet of Things  
(IoT) . Several Azure PaaS*

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*services are detailed  
including Storage, SQL  
Database, DocumentDb, Redis  
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Hub, IoT Suite, Event Hub,  
and Stream Analytics.  
Finally the book looks to*

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*the future and examines  
Service Fabric to see how  
microservices are becoming  
the de facto approach to  
building reliable software  
in the cloud. In this book,  
you'll learn: What  
microservices are and why*

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*are they're a compelling  
architecture pattern for  
SaaS applications How to  
design, develop, and deploy  
microservices using Visual  
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Azure Microservice patterns  
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*and business capabilities  
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*exactly that, with solutions  
presented in a step-by-step  
format. When you read this  
book, you not only learn the  
fundamentals of device  
programming, you will also  
be ready to write code for  
revolutionizing devices and*

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*robots. You don't need to be  
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this book. It explains basic  
concepts and programming  
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*chapters and appendices  
contains a suitable level of  
detail to help you quickly  
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how to: Build Universal  
Windows Platform (UWP)  
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*interconnected embedded  
devices Design and implement  
background apps for seamless  
integration with hardware  
components Use intrinsic UWP  
functionality to detect and  
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artificial auditory, visual,*

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*and learning systems Process  
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to the rhythm of music Use  
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devices by using serial,  
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implement applications to  
control DC, stepper, and  
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work through the book, you'll get  
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example solution that uses all of  
these technologies—an IoT suite for a  
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Azure and networked using Azure IoT, the solution includes centralized patient monitoring, using Cognitive Services APIs for face detection, recognition, and tracking. Blockchain is used to create trust-based security and inventory

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management. Machine learning is used to create predictive solutions to proactively improve quality of life. By the end of the book, you'll be confident creating richer and smarter applications using these technologies. What You'll Learn

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