

## Architecture Of The Hyperledger Blockchain Fabric

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**What is Hyperledger Fabric? | Blockchain Fundamentals of Hyperledger Architecture** *What Is Hyperledger? The Most Comprehensive Video Ever! The Next Five Years of Enterprise Blockchain, Hyperledger and Beyond*  
~~What is Hyperledger | Blockchain Technology | Blockchain Tutorial for Beginners | Edureka Blockchain Series | Hyperledger on Azure Blockchain Hyperledger Fabric Explainer What Is Hyperledger? | What~~

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*Is Hyperledger Fabric In Blockchain? | Blockchain Tutorial | Simplilearn*

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Blockchain Automation Framework, a Hyperledger Lab

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Hyperledger architecture **Blockchain, Hyperledger Fabric, and Composer**  
**Hyperledger Fabric Architecture Tutorial** *Blockchain Expert Explains*

*One Concept in 5 Levels of Difficulty | WIRED* **19 Industries The**

**Blockchain Will Disrupt** **What is BLOCKCHAIN? The best explanation of blockchain technology** *How does a blockchain work - Simply Explained*

*What is Blockchain Exploring Hyperledger Composer* *Building a*

*Blockchain in Under 15 Minutes - Programmer explains* *How to Become A Blockchain Developer | Blockchain Developer Training | Blockchain Career | Simplilearn*

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*This is why your business should use Hyperledger Fabric | Top 3*

*private blockchain comparison Hyperledger Fabric Explained +*

*Installed In 11 Minutes* **Introducing Hyperledger Fabric Architecture and IBM Blockchain Platform** *Enterprise Blockchain - Build real world*

*blockchain applications* *Deploy a blockchain web-app with Hyperledger Fabric 1.4 - Concepts \u0026 Code*

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*Certified Blockchain Solutions Architect (CBSA) Cert. MINI Bootcamp*

*Video 6 Hyperledger Composer* **Hyperledger Sawtooth Blockchain Technical Overview** *Blockchain Hyperledger Composer Playground Basic*

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*Hyperledger Sawtooth 1.0 Architecture and App Development* *Hyperledger*

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~~Fabric — Transaction Flow Architecture Of The Hyperledger Blockchain~~  
Architecture of the Hyperledger Blockchain Fabric Christian Cachin  
IBM Research - Zurich CH-8803 Ruschlikon, Switzerland”  
cca@zurich.ibm.com July 2016 Overview. A blockchain is best  
understood in the model of state-machine replication [8], where a  
service maintains some state and clients invoke operations that  
transform the state and generate outputs.

## ~~Architecture of the Hyperledger Blockchain Fabric~~

Overview. A blockchain is best understood in the model of state-  
machine replication [8], where a service maintains some state and  
clients invoke operations that transform the state and generate  
outputs. A blockchain emulates a “trusted” computing service through  
a distributed protocol, run by nodes connected over the Internet. The  
service represents or creates an asset, in which all nodes ...

## ~~[PDF] Architecture of the Hyperledger Blockchain Fabric ...~~

Figure 1: The traditional architecture for building blockchains and  
resilient replicated services, where transactions are ordered first  
and executed later. Hyperledger Fabric was devised to use a different  
architecture that supports scalability and flexible trust  
assumptions.

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## ~~IBM Research: Behind the architecture of Hyperledger Fabric~~

The framework of Hyperledger Sawtooth is being developed by Intel. It is a blockchain framework which focuses on agility. The framework offers basic functions such as communication between network nodes and storing data on the architecture and the blockchain for plugging consensus algorithms and smart contracts.

## ~~Architecture of Hyperledger Sawtooth — Blockchain Council~~

You might have heard about Hyperledger Fabric is used for Permission based Blockchain deployment, but what makes it robust for Enterprise based Projects Development?, or whats the Architecture behind this, lets go into the depth of it. Blockchain is a Technology based upon Co n sensus, which comes from the subject of Distributed Systems.

## ~~Mystery of Hyperledger Fabric Architecture | by Anubhav ...~~

Hyperledger Fabric is a permissioned blockchain framework, with a modular architecture (plug-and-play). It leverages container technology to host smart contract (Chaincode) which contains application logic. Before going to each component in detail let us see a high-level transaction flow and basic components involved.

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## ~~Hyperledger Fabric—components and architecture ...~~

The Hyperledger Architecture WG has distinguished the following business blockchain components:

- Consensus Layer - Responsible for generating an agreement on the order and confirming the correctness of the set of transactions that constitute a block. Read the Hyperledger Architecture Consensus Paper

## ~~Hyperledger Architecture, Volume II~~

Hyperledger Projects: Frameworks and Tools Infographic. 1. Banking. If you want to take a loan from your bank, you would need to provide a lot of information that would convince the banks to hand out the ... 2. Financial Services. 3. Healthcare. 4. Information Technology. 5. Supply Chain Management. ...

## ~~Hyperledger: The Enterprise Blockchain~~

The Hyperledger Architecture WG has distinguished the following business blockchain components:

- Consensus Layer - Responsible for generating an agreement on the order and confirming the correctness of the set of transactions that constitute a block.

## ~~Hyperledger Architecture, Volume 1~~

Hyperledger Fabric is built on a modular architecture that separates

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transaction processing into three phases: distributed logic processing and agreement (“chaincode”), transaction ordering, and transaction validation and commitment.

## ~~Top 6 technical advantages of Hyperledger Fabric for ...~~

Hyperledger Fabric is the infrastructure, protocol, and network for deployment, development, and application of the permissioned blockchain. It relies on a highly modular architecture, which is underpinned by interchangeable consensus protocol which allows immense scalability and flexibility for different use cases.

## ~~Fundamentals of Hyperledger Fabric – The Block Box~~

Caliper is a general framework for executing benchmarks against different blockchain platforms. Caliper was designed with scalability and extensibility in mind to easily integrate with today’s popular monitoring and infrastructure solutions. Accordingly, the architecture of Caliper can seem a bit complicated at first.

## ~~Architecture | Hyperledger Caliper~~

Hyperledger Fabric is an open source, permissioned blockchain framework, started in 2015 by The Linux Foundation.

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## ~~What is Hyperledger Fabric?~~

Modular: The Hyperledger architecture working group defines functional modules to address common issues, including policy, consensus, cryptography, identity, and smart contracts. This modular approach allows different developer communities to work independently, while developing extensible frameworks using reusable common building blocks.

## ~~Survey Of Hyperledger Design Philosophy And Framework ...~~

More specifically, Hyperledger Fabric is a permissioned blockchain network. This means that only permitted users can query (access to information) or invoke (create a new transaction) a transaction on a granted channel. Hyperledger Fabric uses an X.509 standard certificate to represent permissions, roles, and attributes to each user.

## ~~Demystifying Hyperledger Fabric (1/3): Fabric Architecture ...~~

For instance, Hyperledger Fabric architecture is actually a collaboration between Hyperledger and IBM. Anyhow, just like all other platforms in the market, Fabric comes with its own share of protocols, standards, consensus, APIs, ledger systems, smart contracts and so on. But you will see that this platform is a bit

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different as well.

## ~~Hyperledger Sawtooth Vs. Fabric: How Are They Different?~~

The architecture separates trust assumptions for chaincodes (blockchain applications) from trust assumptions for ordering. In other words, the ordering service may be provided by one set of nodes (orderers) and tolerate some of them to fail or misbehave, and the endorsers may be different for each chaincode.

## ~~Architecture Origins — hyperledger fabricdocs master ...~~

Hyperledger development is the technology that has emerged to incubate transparent ledger and accountable applications just like blockchain is acknowledged as blockchain technology. applications built on hyperledger framework to get the effective implementation of decentralized and distributed blockchain application development service.

Leverage the power of Hyperledger Fabric to develop Blockchain-based distributed ledgers with ease  
Key Features  
Write your own chaincode/smart contracts using Golang on hyperledger network  
Build

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and deploy decentralized applications (DApps) Dive into real world blockchain challenges such as integration and scalability Book Description Blockchain and Hyperledger technologies are hot topics today. Hyperledger Fabric and Hyperledger Composer are open source projects that help organizations create private, permissioned blockchain networks. These find application in finance, banking, supply chain, and IoT among several other sectors. This book will be an easy reference to explore and build blockchain networks using Hyperledger technologies. The book starts by outlining the evolution of blockchain, including an overview of relevant blockchain technologies. You will learn how to configure Hyperledger Fabric and become familiar with its architectural components. Using these components, you will learn to build private blockchain networks, along with the applications that connect to them. Starting from principles first, you'll learn to design and launch a network, implement smart contracts in chaincode and much more. By the end of this book, you will be able to build and deploy your own decentralized applications, handling the key pain points encountered in the blockchain life cycle. What you will learn Discover why blockchain is a game changer in the technology landscape Set up blockchain networks using basic Hyperledger Fabric deployment Understand the considerations for creating decentralized applications

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Learn to integrate business networks with existing systems Write Smart Contracts quickly with Hyperledger Composer Design transaction model and chaincode with Golang Deploy Composer REST Gateway to access the Composer transactions Maintain, monitor, and govern your blockchain solutions Who this book is for The book benefits business leaders as it provides a comprehensive view on blockchain business models, governance structure, and business design considerations of blockchain solutions. Technology leaders stand to gain a lot from the detailed discussion around the technology landscape, technology design, and architecture considerations in the book. With model-driven application development, this guide will speed up understanding and concept development for blockchain application developers. The simple and well organized content will put novices at ease with blockchain concepts and constructs.

Learn quick and effective techniques for developing blockchain-based distributed ledgers with ease Key Features Discover why blockchain is a game changer in the technology landscape Set up blockchain networks using Hyperledger Fabric Write smart contracts at speed with Hyperledger Composer Book Description Blockchain and Hyperledger are open source technologies that power the development of decentralized applications. This Learning Path is your helpful reference for

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exploring and building blockchain networks using Ethereum, Hyperledger Fabric, and Hyperledger Composer. Blockchain Development with Hyperledger will start off by giving you an overview of blockchain and demonstrating how you can set up an Ethereum development environment for developing, packaging, building, and testing campaign-decentralized applications. You'll then explore the de facto language Solidity, which you can use to develop decentralized applications in Ethereum. Following this, you'll be able to configure Hyperledger Fabric and use it to build private blockchain networks and applications that connect to them. Toward the later chapters, you'll learn how to design and launch a network, and even implement smart contracts in chain code. By the end of this Learning Path, you'll be able to build and deploy your own decentralized applications by addressing the key pain points encountered in the blockchain life cycle. This Learning Path includes content from the following Packt products: Blockchain Quick Start Guide by Xun (Brian) Wu and Weimin Sun Hands-On Blockchain with Hyperledger by Nitin Gaur et al. What you will learn Understand why decentralized applications are necessary Develop and test a decentralized application with Hyperledger Fabric and Hyperledger Composer Write and test a smart contract using Solidity Design transaction models and chain code with Golang Deploy the Composer

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REpresentational State Transfer (REST) Gateway to access Composer transactions Maintain, monitor, and manage your blockchain solutions Who this book is for This Learning Path is designed for blockchain developers who want to build decentralized applications and smart contracts from scratch using Hyperledger. Basic familiarity with or exposure to any programming language will be useful to get started with this course.

Get up and running with Oracle's premium cloud blockchain services and build distributed blockchain apps with ease Key Features Discover Hyperledger Fabric and its components, features, qualifiers, and architecture Get familiar with the Oracle Blockchain Platform and its unique features Build Hyperledger Fabric-based business networks with Oracle's premium blockchain cloud service Book Description Hyperledger Fabric empowers enterprises to scale out in an unprecedented way, allowing organizations to build and manage blockchain business networks. This quick start guide systematically takes you through distributed ledger technology, blockchain, and Hyperledger Fabric while also helping you understand the significance of Blockchain-as-a-Service (BaaS). The book starts by explaining the blockchain and Hyperledger Fabric architectures. You'll then get to grips with the comprehensive five-step design strategy - explore,

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engage, experiment, experience, and influence. Next, you'll cover permissioned distributed autonomous organizations (pDAOs), along with the equation to quantify a blockchain solution for a given use case. As you progress, you'll learn how to model your blockchain business network by defining its assets, participants, transactions, and permissions with the help of examples. In the concluding chapters, you'll build on your knowledge as you explore Oracle Blockchain Platform (OBP) in depth and learn how to translate network topology on OBP. By the end of this book, you will be well-versed with OBP and have developed the skills required for infrastructure setup, access control, adding chaincode to a business network, and exposing chaincode to a DApp using REST configuration. What you will learn

Model your blockchain-based business network by defining its components, transactions, integrations, and infrastructure through use cases Develop, deploy, and test chaincode using shim and REST, and integrate it with client apps using SDK, REST, and events Explore accounting, blockchain, hyperledger fabric, and its components, features, qualifiers, architecture and structure Understand the importance of Blockchain-as-a-Service (BaaS) Experiment Hyperledger Fabric and delve into the underlying technology Set up a consortium network, nodes, channels, and privacy, and learn how to translate network topology on OBP Who this book is for If you are a blockchain

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developer, blockchain architect or just a cloud developer looking to get hands-on with Oracle Blockchain Cloud Service, then this book is for you. Some familiarity with the basic concepts of blockchain will be helpful to get the most out of this book

This book addresses what software architects and developers need to know in order to build applications based on blockchain technology, by offering an architectural view of software systems that make beneficial use of blockchains. It provides guidance on assessing the suitability of blockchain, on the roles blockchain can play in an architecture, on designing blockchain applications, and on assessing different architecture designs and tradeoffs. It also serves as a reference on blockchain design patterns and design analysis, and refers to practical examples of blockchain-based applications. The book is divided into four parts: Part I provides a general introduction to the topic and to existing blockchain platforms including Bitcoin, Ethereum, and Hyperledger Fabric, and offers examples of blockchain-based applications. Part II focuses on the functional aspects of software architecture, describing the main roles blockchain can play in an architecture, as well as its potential suitability and design process. It includes a catalogue of 15 design patterns and details how to use model-driven engineering to

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build blockchain-based applications. Part III covers the non-functional aspects of blockchain applications, which are cross-cutting concerns including cost, performance, security, and availability. Part IV then presents three detailed real-world use cases, offering additional insights from a practical perspective. An epilogue summarizes the book and speculates on the role blockchain and its applications can play in the future. This book focusses on the bigger picture for blockchain, covering the concepts and technical considerations in the design of blockchain-based applications. The use of mathematical formulas is limited to where they are critical. This book is primarily intended for developers, software architects and chief information officers who need to understand the basic technology, tools and methodologies to build blockchain applications. It also provides students and researchers new to this field an introduction to this hot topic.

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different architecture designs and tradeoffs. It also serves as a reference on blockchain design patterns and design analysis, and refers to practical examples of blockchain-based applications. The book is divided into four parts: Part I provides a general introduction to the topic and to existing blockchain platforms including Bitcoin, Ethereum, and Hyperledger Fabric, and offers examples of blockchain-based applications. Part II focuses on the functional aspects of software architecture, describing the main roles blockchain can play in an architecture, as well as its potential suitability and design process. It includes a catalogue of 15 design patterns and details how to use model-driven engineering to build blockchain-based applications. Part III covers the non-functional aspects of blockchain applications, which are cross-cutting concerns including cost, performance, security, and availability. Part IV then presents three detailed real-world use cases, offering additional insights from a practical perspective. An epilogue summarizes the book and speculates on the role blockchain and its applications can play in the future. This book focusses on the bigger picture for blockchain, covering the concepts and technical considerations in the design of blockchain-based applications. The use of mathematical formulas is limited to where they are critical. This book is primarily intended for developers,

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"Blockchain technologies are now more than just a trial run. They are starting to go from a Proof of Concept to a Production use case. As a pre sales engineer, solutions engineer or technically focused expert facing customers knowing how to speak blockchain is going to a required skill especially for large VARs, Vendors, Integrators, etc. Hyperledger Fabric is the most widely used permissioned blockchain and demand has never been higher for blockchain expertise Welcome to the Hyperledger Fabric Deep Dive Course! This training is focused on preparing IT professionals in Hyperledger Fabric 1.2 foundations and providing uses cases with demos. It will introduce you to the need for Blockchain applications, use cases, and about Hyperledger Fabric, which is the open source framework for developing Blockchain applications and solutions with a modular architecture. A significant amount of Demos and Whiteboard will help reinforce learning. There are also numerous practice questions that can be used for study as well for any Hyperledger Exam. Course has been developed mainly for systems engineers, systems architects and new blockchain developers.

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What we will cover to get you enabled Understand what Hyperledger Fabric is all about. Appreciate how Hyperledger Fabric compares to other blockchains Blockchain Architecture basics and advanced concepts Hyperledger Fabric basic and advanced concepts. Developing on Hyperledger Composer and what BNA, CTO and ACL files are. Choose appropriate Hyperledger blockchain deployments for various use cases Deployment demos on AWS and IBM cloud services Resources to help find out more information This training course is for you because... You are new to blockchain technology and want to understand basic concepts of blockchain and what materials to learn about Hyperledger Fabric Anyone who has interest in Blockchain technology and would be interested in obtaining a Hyperledger Certification You are an aspiring blockchain architect that would like to validate your knowledge with the industry leading blockchain architecture certification You need to understand the use cases for blockchain and resources to help get started in the blockchain space. Prerequisites - Having access to internet and cloud services."--Resource description page.

Blockchain technology continues to disrupt a wide variety of organizations, from small businesses to the Fortune 500. Today hundreds of blockchain networks are in production, including many

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built with Hyperledger Fabric. This practical guide shows developers how the latest version of this blockchain infrastructure provides an ideal foundation for developing enterprise blockchain applications or solutions. Authors Matt Zand, Xun Wu, and Mark Anthony Morris demonstrate how the versatile design of Hyperledger Fabric 2.0 satisfies a broad range of industry use cases. Developers with or without previous Hyperledger experience will discover why no other distributed ledger technology framework enjoys such wide adoption by cloud service providers such as Amazon, Alibaba, IBM, Google, and Oracle. Walk through the architecture and components of Hyperledger Fabric 2.0

- Migrate your current Hyperledger Fabric projects to version 2.0
- Develop blockchain applications on the Hyperledger platform with Node.js
- Deploy and integrate Hyperledger on Amazon Managed Blockchain, IBM Cloud, and Oracle Cloud
- Develop blockchain applications with Hyperledger Aries, Avalon, Besu, and Grid
- Build end-to-end blockchain supply chain applications with Hyperledger

Create real-world applications using Hyperledger Fabric with ease

**KEY FEATURES**

- Understand the importance of Blockchain in an Enterprise.
- Master the core characteristics of Blockchain, i.e., Decentralization, Cryptography, and Consensus Algorithms.
- Get yourself acquainted with Hyperledger Fabric's core concepts and the

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design philosophy behind it. - Learn how to work with network configurations, TLS, PDC, ACL, RAFT, monitoring using Prometheus, and Grafana. DESCRIPTION Hyperledger Fabric is an open-source Enterprise Blockchain project. It is best suited for Enterprise Solutions, where the aim is to deliver Blockchain ready solutions in a closed environment between multiple parties. This book aims to cover Hyperledger Fabric in-depth and its role in enterprise applications. This book is divided into two parts. The first part talks about Blockchain in general, decentralization, consensus algorithms, and various cryptographic primitives in Blockchain. It takes a cue from Bitcoin and Ethereum wherever required. This section aims to cement foundational concepts of Blockchain. The second section focuses on Hyperledger Fabric. It helps you to get a deep level understanding of its key core concepts, main constituents, architecture internals, and transaction flow. It is then followed by examples that will help you set up a network. A detailed explanation of Chaincode will help you understand how to write a Smart Contract, unit test, and deploy them in the dev network. This book also covers Network Configurations, ACLs, RAFT, and Monitoring so that you can start thinking about making production-grade applications. WHAT WILL YOU LEARN - Get familiar with the fundamentals of Blockchain. - Understand the core concepts of Hyperledger's system architecture. - Create Fabric based

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blockchain networks with different configurations. - Learn to write, test and deploy smart contracts (chaincode) in Hyperledger. - Get familiar with the Security and Privacy aspect in Blockchain. WHO THIS BOOK IS FOR This book is for anyone who wants to get started on blockchain. This book is for developers and architects who want to learn how to develop a fabric based blockchain application and apply advanced concepts that help them build enterprise grade applications. TABLE OF CONTENTS 1. Understanding Blockchain 2. World of Decentralization 3. Cryptography – a pillar 4. Consensus Algorithms 5. Blockchain in Enterprises 6. Hyperledger Fabric 7. Hyperledger Architecture and Transaction Flow 8. Setting up Fabric Network 9. Smart Contracts 10. Privacy and Security 11. Hyperledger Fabric v 2.0

Learn to develop blockchain-based distributed ledgers and deploy a Hyperledger Fabric network with concrete exercises and examples Key features Updated with the latest features and additions that come with Hyperledger Fabric 2 Write your own smart contracts and services using Java and JavaScript on a Hyperledger Fabric network Dive into real-world blockchain challenges such as integration and scalability Book Description Blockchain with Hyperledger Fabric - Second Edition is a refreshed and extended version of the successful book on practical Hyperledger Fabric blockchain development. This edition

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includes many new chapters, alongside comprehensive updates and additions to the existing ones. Entirely reworked for Hyperledger Fabric version 2, this edition will bring you right up to date with the latest in blockchain. Using a real-world Trade Finance and Logistics example, with working code available on GitHub, you'll really understand both how and why Hyperledger Fabric can be used to maximum effect. This book is your comprehensive guide and reference to explore and build blockchain networks using Hyperledger Fabric version 2. This edition of the book begins by outlining the evolution of blockchain, including an overview of relevant blockchain technologies. Starting from first principles, you'll learn how to design and operate a permissioned blockchain network based on Hyperledger Fabric version 2. You will learn how to configure the main architectural components of a permissioned blockchain network including Peers, Orderers, Certificate Authorities, Channels, and Policies. You'll then learn how to design, develop, package, and deploy smart contracts, and how they are subsequently used by applications. This edition also contains chapters on DevOps, blockchain governance, and security, making this your go-to book for Hyperledger Fabric version 2. What you will learn Discover why blockchain is a technology and business game changer Set up blockchain networks using Hyperledger Fabric version 2 Understand how

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to create decentralized applications Learn how to integrate blockchains with existing systems Write smart contracts and services quickly with Hyperledger Fabric and Visual Studio Code Design transaction models and smart contracts with Java, JavaScript, TypeScript, and Golang Deploy REST gateways to access smart contracts and understand how wallets maintain user identities for access control Maintain, monitor, and govern your blockchain solutions Who this book is for This book is designed in such a way that professionals from different areas including business leaders, technology leaders, blockchain application developers, and even beginners can benefit from it.

The book not only implements Hyperledger Fabric, but also shows you how to build and model a blockchain network with Composer. You will master several business blockchain technologies under the Hyperledger umbrella, including Sawtooth, Iroha, decentralized Identity Hyperledger Indy, and Ethereum smart contract machine Burrow etc.

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