

ENTERPRISE BLOCKCHAIN



A Definitive Handbook

Naveen Balani
Rajeev Hathi

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Enterprise Blockchain: A Definitive Handbook



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Before we focus on a formal introduction to blockchain, why don't we take you for a moment to a possible future which should realize sooner than we expect. You are on a vacation outdoors your home country, at a retail center and receive a notification saying there is a sale on high-class watches. You take up a mobile application and place it on the watch. To summarize, within the book, we will cover the following -

1. You haven't; By the end, we would cover topics around expansion to Ethereum blockchain, integration with the external world and the future of smart agreements. You get the watch based on these details and today feel even more connected to the view brand and establish a trust with the purchasing store for selling authentic products. Let's consider a complex B2B process as an international trade financing which currently takes days to complete the trade procedure. We contact blockchain an enabler, as blockchain alone will not result in realizing the possibilities we talked about previously. In the above scenarios that we described earlier and perhaps in all our potential applications, data will be a central stage for businesses, consumers, and even system interaction. Today in a data-driven globe, you should establish trust and compliance between celebrations, you need governance, regulation and accountability through automated workflow and digital contracts rather than central authority and finally a bit of technology that can enable to understand this goal. Once these simple parameters are enabled, it opens countless opportunities to move any value (from solutions to digital assets) over the network in a secure and transparent way. The technology enabler that can aid in realizing this chance is blockchain. By the end, we would setup a local instance of Fabric and build an end-to-end software on Fabric using a hands-on approach. The consensus could be between B2B, B2C or C2C. If the complete workflow is automated, self regulated and built with plenty of consensus between various parties undertaking the trade, it can provide a window of opportunity for new buyers and sellers to handshake, put into action and execute trade seamlessly with large amount of trust and confidence. The combinatorial power of blockchain, smart contracts, and technologies like IoT & Artificial Cleverness would enable to deliver value-driven smart applications. While we defined our vision, we are probably at the first era of blockchain implementation where technologies are still evolving, and use cases are being realized. An in depth intro to IBM Hyperledger Fabric and its core components. The book comprises of three chapters. In Chapter 1, we will provide a neutral eyesight and architecture for blockchain, without engaging in vendor specific information. A vendor-neutral architecture for building any blockchain applications. You pick up a wrist watch and you wonder if the view is genuine and well worth the purchase price. In chapter 2 and 3, we will demonstrate the working of two trusted blockchain implementations - Ethereum and IBM Hyperledger Fabric respectively.
2. A detailed launch to Ethereum and its core elements. We will set up a local example of Ethereum and build end-to-end software on Ethereum blockchain utilizing a hands-on strategy. The application form recognizes the view and displays the complete lifecycle of the view like where it had been manufactured and the GPS coordinates, where it was designed, what's the warranty period, just how much custom duty you need to pay out (if any) if you bring this view back to your home country and actually showing and comparing comparable watches.
3. Through this book, we try to provide a reference instruction for building blockchain applications. We would cover the enterprise capabilities supplied by Fabric 1. It been to this shop before. We look at blockchain as an enabler to supply consensus on data.



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