



# TOSHBLOCKS

Blockchain Consulting, Development & Training Hub

## WHAT IS HYPERLEDGER FABRIC

BY TOSHENDRA SHARMA



# WHAT IS HYPERLEDGER FABRIC

- One of the open source Blockchain framework implementation hosted under Hyperledger Project
- Initiated by Digital Asset and IBM, as a result of the first hackathon.
- Sometime also called just “Fabric” or “**IBM’s Fabric**”
- A Blockchain technology using which businesses can setup in-house Blockchain
- Many powerful corporate features which are not there in other technologies like Ethereum etc. like plug-n-play consensus etc.
- Exited from the Hyperledger Incubator on 3 Mar, 2017 for being Matured enough.

# WHAT IT DOES?

- Let you setup local public or private Blockchain
- Allows components, such as consensus and membership services, to be plug-and-play.
- Let you publish data using APIs as per your business logic
- Leverages container technology to host smart contracts called “chaincode” that comprise the application logic of the system.
- Let you create & deploy powerful smart contracts on your local Blockchain as per your business logic



# FABRIC MODULES

- Hyperledger Fabric Chaintool
- Hyperledger Fabric SDKs





## OTHER STUFF UNDER HYPERLEDGER

- There are few more technologies & tools under Hyperledger project
- Lets quickly explore them to get broader prospective



# OTHER TECHNOLOGIES

- **Soramitsu's Iroha**
  - A business blockchain framework designed to be simple and easy to incorporate into infrastructural projects requiring distributed ledger technology.
  - contributed by Soramitsu, NTT Data, Colu
  - Pronounced as all together now, “eee-row-ha”
  - Now called Hyperledger Iroha
- **Intel's Sawtooth Lake**
  - Is a modular platform for building, deploying, and running distributed ledgers.
  - Contributed mainly by Intel
  - Now called Hyperledger Sawtooth Lake
- **Hyperledger Burrow**
  - is a permissionable smart contract machine.
  - Contributed by Monax & Sponsored by Monax & Intel
  - provides a modular blockchain client with a permissioned smart contract interpreter built in part to the specification of the Ethereum Virtual Machine (EVM).

# TOOL: HYPERLEDGER CELLO

- Hyperledger Cello aims to bring the on-demand “as-a-service” deployment model to the blockchain ecosystem.
- It reduces the effort required for creating, managing and terminating blockchains.
- You can launch your own Blockchain as a service using this tool



# TOOL: HYPERLEDGER COMPOSER

- Composer is a collaboration tool for building blockchain business networks, accelerating the development of smart contracts and their deployment across a distributed ledger.





# TOOL: HYPERLEDGER EXPLORER

- Hyperledger Blockchain Explorer can view, invoke, deploy or query blocks, transactions and associated data, network information, chain codes and transaction families, as well as any other relevant information stored in the ledger.





# TOOL: HYPERLEDGER INDY

- Indy provides tools, libraries, and reusable components for providing digital identities rooted on blockchains or other distributed ledgers so that they are interoperable across administrative domains, applications, and any other silo.





# OUR CONTACT DETAILS

**COMPANY:** Toshblocks – Blockchain Consulting, Development & Training Hub

**ADDRESS:** Gurgaon, India

**WEBSITE:** <http://www.toshblocks.com>

**EMAIL:** [hello@toshblocks.com](mailto:hello@toshblocks.com)



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