Understanding Hyperledger Fabric Blockchain Resources.

Please find below some easy to reference graphics and links.

HYPERLEDGER Overview

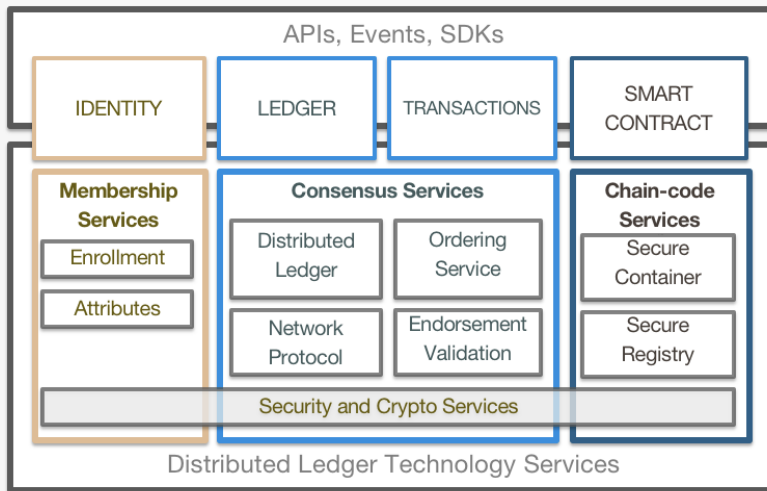## Hyperledger Blockchain Frameworks

Framework	Smart Contract Technology	Smart Contract Type	Language(s) for Writing Smart Contracts
Hyperledger Burrow	Smart contract application engine	On-Chain	Native language code
Hyperledger Fabric	Chaincode	Installed	Golang (> v1.0) or Javascript (> v1.1)
Hyperledger Indy	None	None	None
Hyperledger Iroha[2]	Chaincode	On-chain	Native language code
Hyperledger Sawtooth	Transaction families	On-Chain and Installed	C++, Go, Java, JavaScript, Python, Rust, or Solidity (through Seth)

Graphic Courtesy of the Linux Foundation

Hyperledger Fabric Reference Architecture

Reference Architecture

IDENTITY
Pluggable, Membership, Privacy and Auditability of transactions.

LEDGER | TRANSACTIONS
Distributed transactional ledger whose state is updated by consensus of stakeholders
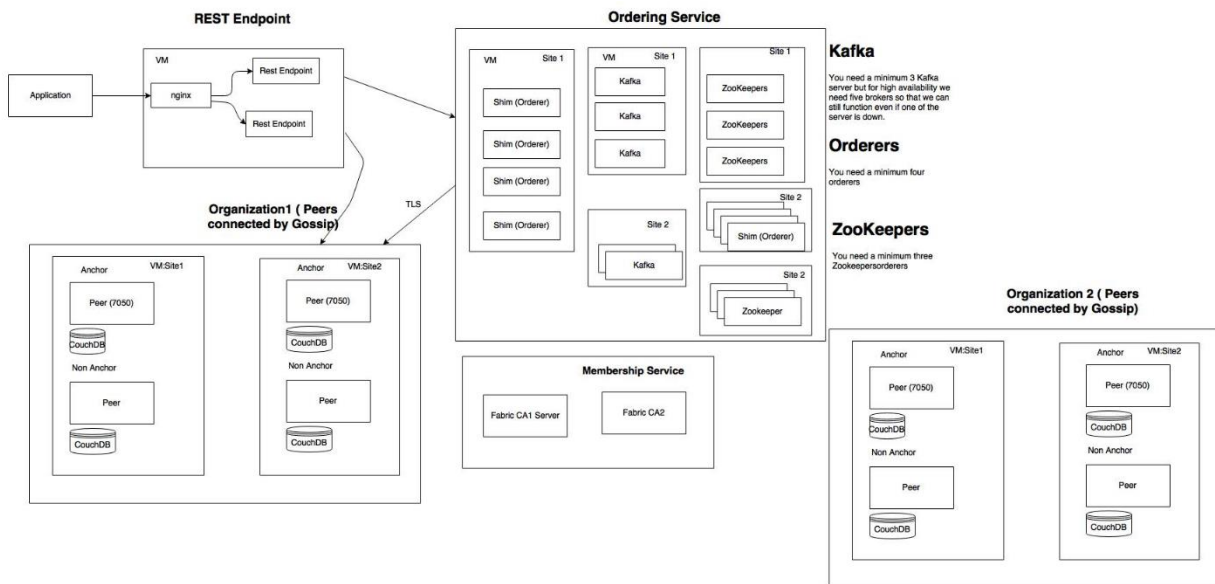
SMART CONTRACT
"Programmable Ledger", provide ability to run business logic against the blockchain (aka smart contract)

APIs, Events, SDKs
Multi-language native SDKs allow developers to write DLT apps

Graphic Courtesy of the Linux Foundation

Hyperledger Component Overview

Graphic Courtesy of the Linux Foundation

Hyperledger Project

https://www.hyperledger.org/

Hyperledger Fabric

https://www.hyperledger.org/projects/fabric

Hyperledger Fabric Glossary

http://hyperledger-fabric.readthedocs.io/en/latest/glossary.html

Hyperledger Fabric Architecture Guide

http://hyperledger-fabric.readthedocs.io/en/latest/architecture.html

Hyperledger Arch Whitepaper 1

https://www.hyperledger.org/wp-content/uploads/2017/08/Hyperledger_Arch_WG_Paper_1_Consensus.pdf

Hyperledger Arch Whitepaper 2

https://www.hyperledger.org/wp-content/uploads/2018/04/Hyperledger_Arch_WG_Paper_2_SmartContracts.pdf

Hyperledger Publications

https://www.hyperledger.org/resources/publications

Build your first Network

http://hyperledger-fabric.readthedocs.io/en/latest/build_network.html

Hyperledger Composer

https://hyperledger.github.io/composer/latest/

Hyperledger Composer Playground

https://composer-playground.mybluemix.net/login

Composer Architecture Solution

https://hyperledger.github.io/composer/latest/introduction/solution-architecture.html

Hyperledger Fabric SDK

https://fabric-sdk-node.github.io/

IBM Blockchain Sandbox

https://ibm-blockchain.github.io/

DOCKER

Install Docker for Ubuntu
https://docs.docker.com/v17.09/engine/installation/linux/docker-ce/ubuntu/

Install Docker for Mac https://docs.docker.com/v17.09/docker-for-mac/install/

IBM Cloud

Sandbox Instructions

https://ibm-blockchain.github.io/

Bluemix/IBM Cloud (BaaS)

IBM Blockchain offerings are built on the [Hyperledger Fabric](#) V1.1 code base that leverages a modular architecture to achieve enterprise levels of security, data integrity, scalability, and performance to meet your business needs.

- **Starter Plan** is an environment to learn or get started developing blockchain networks.
- **Enterprise Plan** is a production environment that offers high levels of security and support.
- **Enterprise Plus Plan** offers a dedicated production environment for additional performance and isolated compute and storage resources to protect critical data.

https://console.bluemix.net/dashboard/apps/

Hyperledger Certification

Certified Blockchain Developer Hyperledger (CBDH)

The BTA Certified Blockchain Developer Hyperledger Fabric (CBDH) exam is an elite way to demonstrate your knowledge and skills in this emerging space. Additionally, you will become a member of a community of Blockchain leaders. With certification comes monthly industry updates via email and video.

The CBDH exam is a 70 question multiple-choice exam that lasts 1.5 hours and is a performance-based evaluation of Hyperledger Fabric development skills and knowledge

https://blockchaintrainingalliance.com/products/cbdh

Free Training

Hyperledger.org Free Sponsored Training

https://www.hyperledger.org/resources/training

Books

Recommended Book.. (Free on Safari)

Hands-On Blockchain with Hyperledger

https://www.safaribooksonline.com/library/view/hands-on-blockchain-with/9781788994521/