Ecosystem

A curated list of active Hyperledger Fabric ecosystem projects.

Getting Started

- Fabric documentation
  - Official documentation including Getting Started, Key Concepts, and Tutorials
- fabric-samples
  - Official Fabric samples repository that supports the Fabric documentation tutorials
- Full Stack Asset Transfer
  - Workshop-style exercises to take you from building a smart contract and client application in development through to a full K8s deployed solution

Application projects (chaincode, client applications, application frameworks, interop)

- Application SDKs
  - Build client applications written in Node, Java, or Go
- Chaincode libraries
  - Build chaincode applications written in Node, Java, or Go
- hlf-connector
  - Expose chaincode via REST service or Kafka messaging
- Fabric Smart Client
  - A flow-based framework for writing blockchain applications that preserves privacy between transactors
- Fabric Token SDK
  - SDK to assist in building Token based solutions on Hyperledger Fabric (uses Fabric Smart Client)
- Firefly
  - A complete stack for enterprises to build and scale secure Web3 applications.
- Cacti
  - A multi-faceted pluggable interoperability framework to link networks built on heterogeneous distributed ledger and blockchain technologies and to run transactions spanning multiple networks.

Docker-based deployment environments (often used for development and testing)
### Microfab
- Single docker container with configurable organizations/peers/channels. A full fabric network startable in seconds, perfect for development
- Fabric-samples test-network
- Fablo
- Specify a network to spin up a docker-compose network
- Cello
- Deploy to Docker including Docker Swarm support

### Kubernetes-based deployment environments (often used for production deployment)

#### Bevel operator for Fabric
- Kubernetes operator that works with Bevel deployment framework

#### Fabric Operator
- Kubernetes Fabric operator that powers IBM Blockchain Platform

#### Fabric Ansible Collection
- Ansible roles to deploy the Fabric Operator and Operations Console (open source and the IBM support offering images)
- Collection of Ansible modules for creation and management of Fabric Networks

#### Fabric K8s Chaincode Builder
- Chaincode Builder specifically targeting K8s deployments of docker based chaincode
- Github Action for building a K8s chaincode package

### Management and operations (agnostic to deployment environments)

- **Fabric operations console**
  - Web UI for management of Fabric Network, often used with Fabric Operator
- **Fabric Admin SDK**
  - Build client applications to manage Fabric channels and chaincodes
- **fabric-opssc**
  - *Operations Smart Contract (OpsSC)* is smart contract-based system operations for blockchain-based systems.
- Enables decentralized system operations over multiple organizations.
  - **Blockchain explorer**
  - Browse activity on the underlying blockchain network.