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**
  - Docker-compose network used for Fabric official tutorials and samples.
- **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.