



HYPERLEDGER CALIPER

Hyperledger Caliper

- Blockchain performance benchmark framework which allows users to test different blockchain solutions with predefined use cases, and get a set of performance test results.

Supported Blockchain Solutions

- Hyperledger Fabric
- Ethereum
- Hyperledger Besu
- FISCO BCOS

Supported performance metrics

- Transaction/read throughput
- Transaction/read latency (minimum, maximum, average, percentile)
- Resource consumption (CPU, Memory, Network IO, ...)

Steps for running Caliper on Fabric network

- Bring up the Hyperledger Fabric network
- Deploy the chaincode
- Create a Caliper Workspace
- Build a Network Configuration File
- Build a Test Workload Module
- Build a Benchmark Configuration File
- Run the Caliper Benchmark

Installing and Running Caliper

- Install Caliper

```
npm install --only=prod @hyperledger/caliper-cli@0.5.0
```

- Bind Caliper

```
npx caliper bind --caliper-bind-sut fabric:2.4
```

- Launch Caliper

```
npx caliper launch manager --caliper-workspace ./ --caliper-networkconfig  
networks/networkConfig.yaml --caliper-benchconfig  
benchmarks/myAssetBenchmark.yaml --caliper-flow-only-test --caliper-fabric-  
gateway-enabled
```

DEMO