HYPERLEDGER CALIPER

Basic information

DLT: fabric

Name: get-data-offers

Description: This is a duration based benchmark targeting a Hyperledger Fabric network using the `basic` NodeJS chaincode contract that is interacted with via a Fabric-SDK-Node Gateway. Each test round invokes the 'GetAllOffer()' API method.

Benchmark Rounds: 1

Details

Benchmark results

Summary

get-data-offer-evaluate

System under test

Details

Caliper report

Summary of performance metrics

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate	310	0	4.7	9.33	1.02	6.98	4.6

Benchmark round: get-data-offer-evaluate

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 50
```

Performance metrics for get-data-offer-evaluate

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate	310	0	4.7	9.33	1.02	6.98	4.6

Resource utilization for get-data-offer-evaluate

Resource monitor: prometheus

Metric	Prometheus Query	Name
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Write	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer

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(MB)			
			couchdb0
			couchdb1
			orderer.example.com
			peer0.org1.example.com
			peer0.org2.example.com
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)		ca_orderer
			couchdb0
			couchdb1
			orderer.example.com
			peer0.org1.example.com
			peer0.org2.example.com

Test Environment

benchmark config

```
name: get-data-offers
description: >
  This is a duration based benchmark targeting a Hyperledger Fabric network
  using the `basic` NodeJS chaincode contract that is interacted with via a
  Fabric-SDK-Node Gateway. Each test round invokes the 'GetAllOffer()' API
  method.
workers:
  number: 10
rounds:
  - label: get-data-offer-evaluate
    description: >
      Test an evaluateTransaction() Gateway method against the NodeJS `basic`
      Smart Contract method named `GetAlldata-offer`. This method retrieves all
      data-offer schedules from the ledger.
    chaincodeID: basic
    txDuration: 60
    rateControl:
      type: fixed-load
      opts:
        transactionLoad: 50
    workload:
      module: benchmarks/datamanagement/workloads/get-data-offer.js
      arguments:
        chaincodeID: basic
```

SUT

```
not provided
```