

Basic information

DLT: fabric

Name: insert-data-hash-

benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertTestDataHash function Benchmark Rounds: 2

- ...

Details

Benchmark results

Summary insert-data-hash insert-data-hash-100

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)
insert-data- hash	60	1	61.2	14.75	14.31	14.52	4.0
insert-data- hash-100	61	0	60.9	15.95	14.23	14.44	3.6

Benchmark round: insert-data-hash

Benchmarking the InsertTestDataHash function with specific parameters.

txDuration: 1
rateControl:
 type: fixed-rate
 opts:
 tps: 60

Performance metrics for insert-data-hash

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data- hash	60	1	61.2	14.75	14.31	14.52	4.0

Resource utilization for insert-data-hash

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- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8		
		dev-peer0.org2.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8		
		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- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8		
		dev-peer0.org2.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8		
		orderer.example.com		
		peer0.org1.example.com		
		peer0.org2.example.com		

Hyperledger Caliper Report



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Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8
		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
		dev-peer0.org1.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-data-hash-100

Test InsertTestDataHash function with asset size 100 bytes

txDuration: 1
rateControl:
 type: fixed-rate
 opts:
 tps: 60

Performance metrics for insert-data-hash-100

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data- hash-100	61	0	60.9	15.95	14.23	14.44	3.6

Resource utilization for insert-data-hash-100

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- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8
		dev-peer0.org2.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8
		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



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Benchmark results

Summary

insert-data-hash

insert-data-hash-100

System under test

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	Hyperledger Cali	per Report
		dev-peer0.org1.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8
		dev-peer0.org2.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8
		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
		dev-peer0.org1.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
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Test Environment

benchmark config

```
name: insert-data-hash-benchmark
description: >-
Benchmarking the Hyperledger Fabric network with the InsertTestDataHash
   function
workers:
  number: 1
rounds:
     label: insert-data-hash
     description: Benchmarking the InsertTestDataHash function with specific
parameters.
chaincodeID: basic
     txDuration: 1
rateControl:
     type: fixed-rate
opts:
    tps: 60
workload:
    module: benchmarks/datamanagement/workloads/insert-data-hash.js
     arguments:
    chaincodeID: basic
label: insert-data-hash-100
description: Test InsertTestDataHash function with asset size 100 bytes chaincodeID: basic
     txDuration: 1 rateControl:
        type: fixed-rate
     opts:
    tps: 60
workload:
    module:    benchmarks/datamanagement/workloads/insert-data-hash.js
        arguments:
           chaincodeID: basic
byteSize: 100
```

not provided

SUT