

DLT: fabric

Name: insert-historical-data-offer-

benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertTestHistoricalDataOffer

function

Benchmark Rounds: 8

Details

Benchmark results

Summary

<u>insert-historical-data-offer-1000-fixed-load</u>

<u>insert-historical-data-offer-2000-fixed-load</u>

<u>insert-historical-data-offer-3000-fixed-load</u>

<u>insert-historical-data-offer-4000-fixed-load</u>

<u>insert-historical-data-offer-8000-fixed-load</u>

<u>insert-historical-data-offer-16000-fixed-load</u>

<u>insert-historical-data-offer-32000-fixed-load</u>

<u>insert-historical-data-offer-64000-fixed-load</u>

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-historical-data-offer- 1000-fixed-load	300	0	7.8	1.15	0.18	0.54	7.7
insert-historical-data-offer- 2000-fixed-load	300	0	7.5	1.06	0.15	0.53	7.4
insert-historical-data-offer- 3000-fixed-load	300	0	7.9	1.13	0.15	0.51	7.8
insert-historical-data-offer- 4000-fixed-load	300	0	8.0	1.28	0.16	0.45	8.0
insert-historical-data-offer- 8000-fixed-load	300	0	8.3	1.00	0.14	0.41	8.2
insert-historical-data-offer- 16000-fixed-load	300	0	8.3	0.98	0.14	0.39	8.2
insert-historical-data-offer- 32000-fixed-load	300	0	8.2	0.83	0.14	0.45	8.1
insert-historical-data-offer- 64000-fixed-load	300	0	8.3	1.06	0.13	0.39	8.2

Benchmark round: insert-historical-data-offer-1000-fixed-load

Benchmarking the InsertTestHistoricalDataOffer function with a data size of 1000 bytes at a fixed load.

txDuration: 60
rateControl:
 type: fixed-load
opts:

opts: transactionLoad: 10 startingTps: 1

Performance metrics for insert-historical-data-offer-1000-fixed-load

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-offer- 1000-fixed-load	300	0	7.8	1.15	0.18	0.54	7.7

Resource utilization for insert-historical-data-offer-1000-fixed-load

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



Basic information

DLT: fabric

Name: insert-historical-data-offer-

benchmark

Description: Benchmarking the Hyperledger Fabric network with $the\ Insert Test Historical Data Offer$

Benchmark Rounds: 8

Details

Benchmark results

Summary

insert-historical-data-offer-1000fixed-load

insert-historical-data-offer-2000fixed-load

insert-historical-data-offer-3000fixed-load

insert-historical-data-offer-4000fixed-load

insert-historical-data-offer-8000fixed-load

insert-historical-data-offer-16000fixed-load

insert-historical-data-offer-32000fixed-load

insert-historical-data-offer-64000fixed-load

System under test

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 (MB) sum(rate(container_fs_writes_bytes_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 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- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-historical-data-offer-2000-fixed-load

Benchmarking the InsertTestHistoricalDataOffer function with a data size of 2000 bytes at a fixed load.

txDuration: 60 rateControl: type: fixed-load opts: transactionLoad: 20 startingTps: 1

Performance metrics for insert-historical-data-offer-2000-fixed-load

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-offer- 2000-fixed-load	300	0	7.5	1.06	0.15	0.53	7.4

Resource utilization for insert-historical-data-offer-2000-fixed-load

Metric	Prometheus Query	Name
Avg	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer



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<u>insert-historical-data-offer-2000-fixed-load</u>

<u>insert-historical-data-offer-3000-fixed-load</u>

insert-historical-data-offer-4000-fixed-load

<u>insert-historical-data-offer-8000-fixed-load</u>

insert-historical-data-offer-16000fixed-load

insert-historical-data-offer-32000fixed-load

<u>insert-historical-data-offer-64000-fixed-load</u>

System under test

Details

	Hyperledger Cali	per Neport
Memory (MB)		
		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 (MB)	sum(rate(container_fs_writes_bytes_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 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- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-historical-data-offer-3000-fixed-load

Benchmarking the InsertTestHistoricalDataOffer function with a data size of 3000 bytes at a fixed load.

txDuration: 60
rateControl:
 type: fixed-load
 opts:
 transactionLoad: 40
 startingTps: 1



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unction

Benchmark Rounds: 8

Details

Benchmark results

Summary

 $\frac{insert\text{-}historical\text{-}data\text{-}offer\text{-}1000\text{-}}{fixed\text{-}load}$

insert-historical-data-offer-2000fixed-load

<u>insert-historical-data-offer-3000-fixed-load</u>

insert-historical-data-offer-4000fixed-load

<u>insert-historical-data-offer-8000-fixed-load</u>

<u>insert-historical-data-offer-16000-fixed-load</u>

<u>insert-historical-data-offer-32000-fixed-load</u>

<u>insert-historical-data-offer-64000-fixed-load</u>

System under test

Details

Performance metrics for insert-historical-data-offer-3000-fixed-load

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-offer- 3000-fixed-load	300	0	7.9	1.13	0.15	0.51	7.8

Resource utilization for insert-historical-data-offer-3000-fixed-load

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- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726570
		dev-peer0.org2.example.com-basic_1.0- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd268872657
		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- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726570
		dev-peer0.org2.example.com-basic_1.0- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd268872657
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
	sum(rate(container_fs_writes_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd268872657
		dev-peer0.org2.example.com-basic_1.0- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd268872657
		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- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd268872657
		dev-peer0.org2.example.com-basic_1.0- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd268872657
		orderer.example.com
		peer0.org1.example.com



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Benchmark results

Summary

<u>insert-historical-data-offer-1000-fixed-load</u>

<u>insert-historical-data-offer-2000-fixed-load</u>

<u>insert-historical-data-offer-3000-fixed-load</u>

insert-historical-data-offer-4000-

fixed-load

insert-historical-data-offer-8000-

fixed-load

<u>insert-historical-data-offer-16000-fixed-load</u>

insert-historical-data-offer-32000fixed-load

insert-historical-data-offer-64000-

fixed-load

System under test

Details

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	peer0.org2.example.com

Benchmark round: insert-historical-data-offer-4000-fixed-load

Benchmarking the InsertTestHistoricalDataOffer function with a data size of 4000 bytes at a fixed load.

txDuration: 60
rateControl:
 type: fixed-load

opts: transactionLoad: 60 startingTps: 1

Performance metrics for insert-historical-data-offer-4000-fixed-load

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-offer- 4000-fixed-load	300	0	8.0	1.28	0.16	0.45	8.0

Resource utilization for insert-historical-data-offer-4000-fixed-load

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
	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 (MB)	sum(rate(container_fs_writes_bytes_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



Basic information

DLT: fabric

Name: insert-historical-data-offer-

benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertTestHistoricalDataOffer

unction

Benchmark Rounds: 8

Details

Benchmark results

Summary

<u>insert-historical-data-offer-1000-fixed-load</u>

<u>insert-historical-data-offer-2000-fixed-load</u>

insert-historical-data-offer-3000-fixed-load

insert-historical-data-offer-4000-fixed-load

insert-historical-data-offer-8000-

fixed-load insert-historical-data-offer-16000-

fixed-load

insert-historical-data-offer-32000-

<u>fixed-load</u>

<u>insert-historical-data-offer-64000-fixed-load</u>

System under test

Details

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		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- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576				
		dev-peer0.org2.example.com-basic_1.0- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576				
		orderer.example.com				
		peer0.org1.example.com				
		peer0.org2.example.com				

Benchmark round: insert-historical-data-offer-8000-fixed-load

Benchmarking the InsertTestHistoricalDataOffer function with a data size of $8000\ bytes$ at a fixed load.

txDuration: 60
rateControl:
type: fixed-load
opts:
transactionLoad: 80

Performance metrics for insert-historical-data-offer-8000-fixed-load

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-offer- 8000-fixed-load	300	0	8.3	1.00	0.14	0.41	8.2

Resource utilization for insert-historical-data-offer-8000-fixed-load

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



Basic information

DLT: fabric

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Description: Benchmarking the Hyperledger Fabric network with the InsertTestHistoricalDataOffer

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Benchmark results

Summary

<u>insert-historical-data-offer-1000-fixed-load</u>

insert-historical-data-offer-2000-

fixed-load insert-historical-data-offer-3000-

fixed-load

insert-historical-data-offer-4000-

fixed-load

insert-historical-data-offer-8000-

insert-historical-data-offer-16000-

<u>fixed-load</u>

<u>insert-historical-data-offer-32000-fixed-load</u>

insert-historical-data-offer-64000-

fixed-load

System under test

Details

	rryperieuger eun	per Report
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		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- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-historical-data-offer-16000-fixed-load

Benchmarking the InsertTestHistoricalDataOffer function with a data size of 16000 bytes at a fixed load.

txDuration: 60
rateControl:
 type: fixed-load
 opts:
 transactionLoad: 100

startingTps: 1

Performance metrics for insert-historical-data-offer-16000-fixed-load

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-offer- 16000-fixed-load	300	0	8.3	0.98	0.14	0.39	8.2

Resource utilization for insert-historical-data-offer-16000-fixed-load

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



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Benchmark results

Summary

<u>insert-historical-data-offer-1000-fixed-load</u>

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<u>insert-historical-data-offer-2000-fixed-load</u>

insert-historical-data-offer-3000-

fixed-load insert-historical-data-offer-4000-

insert-histo fixed-load

insert-historical-data-offer-8000-

fixed-load

insert-historical-data-offer-16000-

<u>fixed-load</u>

<u>insert-historical-data-offer-32000-fixed-load</u>

<u>insert-historical-data-offer-64000-fixed-load</u>

System under test

Details

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 (MB)	sum(rate(container_fs_writes_bytes_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 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- 637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-historical-data-offer-32000-fixed-load

Benchmarking the InsertTestHistoricalDataOffer function with a data size of 32000 bytes at a fixed load.

txDuration: 60
rateControl:
 type: fixed-load
 opts:
 transactionLoad: 120
 startingTps: 1

Performance metrics for insert-historical-data-offer-32000-fixed-load

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-offer- 32000-fixed-load	300	0	8.2	0.83	0.14	0.45	8.1

Resource utilization for insert-historical-data-offer-32000-fixed-load

Metric	Prometheus Query	Name
Avg	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer



DLT: fabric

Name: insert-historical-data-offer-

benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertTestHistoricalDataOffer

unction

Benchmark Rounds: 8

Details

Benchmark results

Summary

<u>insert-historical-data-offer-1000-fixed-load</u>

insert-historical-data-offer-2000fixed-load

<u>insert-historical-data-offer-3000-fixed-load</u>

<u>insert-historical-data-offer-4000-</u> fixed-load

<u>insert-historical-data-offer-8000-fixed-load</u>

<u>insert-historical-data-offer-16000-fixed-load</u>

<u>insert-historical-data-offer-32000-fixed-load</u>

<u>insert-historical-data-offer-64000-fixed-load</u>

System under test

Details

Memory (MB)	Hyperleager Call	· .
		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 (MB)	sum(rate(container_fs_writes_bytes_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 Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-historical-data-offer-64000-fixed-load

Benchmarking the InsertTestHistoricalDataOffer function with a data size of 64000 bytes at a fixed load.

txDuration: 60
rateControl:
 type: fixed-load
 opts:
 transactionLoad: 150
 startingTps: 1



DLT: fabric

Name: insert-historical-data-offer-

benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertTestHistoricalDataOffer

unction

Benchmark Rounds: 8

Details

Benchmark results

Summary

 $\frac{insert\text{-}historical\text{-}data\text{-}offer\text{-}1000\text{-}}{fixed\text{-}load}$

<u>insert-historical-data-offer-2000-fixed-load</u>

<u>insert-historical-data-offer-3000-fixed-load</u>

<u>insert-historical-data-offer-4000-fixed-load</u>

<u>insert-historical-data-offer-8000-fixed-load</u>

<u>insert-historical-data-offer-16000-fixed-load</u>

<u>insert-historical-data-offer-32000-fixed-load</u>

<u>insert-historical-data-offer-64000-fixed-load</u>

System under test

Details

Performance metrics for insert-historical-data-offer-64000-fixed-load

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-offer- 64000-fixed-load	300	0	8.3	1.06	0.13	0.39	8.2

Resource utilization for insert-historical-data-offer-64000-fixed-load

Name
om-basic_1.0- id5b7eadeac170c68a9499b6070bb44fcd268872657
om-basic_1.0- id5b7eadeac170c68a9499b6070bb44fcd268872657
om-basic_1.0- id5b7eadeac170c68a9499b6070bb44fcd268872657
om-basic_1.0- id5b7eadeac170c68a9499b6070bb44fcd268872657
om-basic_1.0- id5b7eadeac170c68a9499b6070bb44fcd268872657
om-basic_1.0- id5b7eadeac170c68a9499b6070bb44fcd268872657
om-basic_1.0- id5b7eadeac170c68a9499b6070bb44fcd268872657
om-basic_1.0- id5b7eadeac170c68a9499b6070bb44fcd268872657



DLT: fabric

Name: insert-historical-data-offer-

benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertTestHistoricalDataOffer

Benchmark Rounds: 8

Details

Benchmark results

Summary

insert-historical-data-offer-1000-

fixed-load insert-historical-data-offer-2000-

fixed-load

insert-historical-data-offer-3000fixed-load

insert-historical-data-offer-4000-

fixed-load

insert-historical-data-offer-8000-

fixed-load

insert-historical-data-offer-16000-

fixed-load insert-historical-data-offer-32000-

fixed-load

insert-historical-data-offer-64000-

fixed-load

System under test

Details

1		İ
		peer0.org2.example.com

Test Environment

benchmark config

```
name: insert-historical-data-offer-benchmark
description: >-
Benchmarking the Hyperledger Fabric network with the
  InsertTestHistoricalDataOffer function
workers:
  number: 150
rounds:
     label: insert-historical-data-offer-1000-fixed-load
    description: >
       Benchmarking the InsertTestHistoricalDataOffer function with a data size
     of 1000 bytes at a fixed load. chaincodeID: basic
    txDuration: 60 rateControl:
       type: fixed-load
       opts:
         transactionLoad: 10
startingTps: 1
    workload:
       module: benchmarks/datamanagement/workloads/historical-data-offer.js
       arguments:
         chaincodeID: basic
    byteSize: 1000
label: insert-historical-data-offer-2000-fixed-load
description: >-
       Benchmarking the InsertTestHistoricalDataOffer function with a data size
       of 2000 bytes at a fixed load.
     chaincodeID: basic
txDuration: 60
     rateControl:
       type: fixed-load opts:
         transactionLoad: 20
          startingTps: 1
    workload:
       module: benchmarks/datamanagement/workloads/historical-data-offer.js
       arguments:
chaincodeID: basic
    byteSize: 2000
label: insert-historical-data-offer-3000-fixed-load
     description: >
       Benchmarking the InsertTestHistoricalDataOffer function with a data size of 3000 bytes at a fixed load.
    chaincodeID: basic
txDuration: 60
     rateControl:
type: fixed-load
opts:
         transactionLoad: 40
         startingTps: 1
    workload:
       module: benchmarks/datamanagement/workloads/historical-data-offer.js
       arguments:
   chaincodeID: basic
    byteSize: 3000
label: insert-historical-data-offer-4000-fixed-load
    description: >-
   Benchmarking the InsertTestHistoricalDataOffer function with a data size
    of 4000 bytes at a fixed load.
chaincodeID: basic
txDuration: 60
     rateControl:
       type: fixed-load
       opts:
         transactionLoad: 60
         startingTps: 1
    workload:
       module: benchmarks/datamanagement/workloads/historical-data-offer.js
       arguments
          chaincodeID: basic
    byteSize: 4000
label: insert-historical-data-offer-8000-fixed-load
    description: >-
   Benchmarking the InsertTestHistoricalDataOffer function with a data size
    of 8000 bytes at a fixed load. chaincodeID: basic
    txDuration: 60
rateControl:
       type: fixed-load
       opts:
         transactionLoad: 80
          startingTps: 1
       module: benchmarks/datamanagement/workloads/historical-data-offer.js
       arguments:
         chaincodeID: basic
byteSize: 8000
    label: insert-historical-data-offer-16000-fixed-load
description: >-
     Benchmarking the InsertTestHistoricalDataOffer function with a data size of 16000 bytes at a fixed load. chaincodeID: basic
     txDuration: 60
     rateControl:
       type: fixed-load
opts:
```



DLT: fabric

Name: insert-historical-data-offer-

benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertTestHistoricalDataOffer function

Benchmark Rounds: 8

Details

Benchmark results

Summary

insert-historical-data-offer-1000fixed-load

insert-historical-data-offer-2000fixed-load

insert-historical-data-offer-3000-

fixed-load

insert-historical-data-offer-4000-

fixed-load

insert-historical-data-offer-8000fixed-load

insert-historical-data-offer-16000fixed-load

insert-historical-data-offer-32000fixed-load

insert-historical-data-offer-64000fixed-load

System under test

Details

```
transactionLoad: 100
       startingTps: 1
  workload:
   module: benchmarks/datamanagement/workloads/historical-data-offer.js
    arguments:
chaincodeID: basic
byteSize: 16000
- label: insert-historical-data-offer-32000-fixed-load
  description: >
    Benchmarking the InsertTestHistoricalDataOffer function with a data size of 32000 bytes at a fixed load.
  chaincodeID: basic txDuration: 60
  {\tt rateControl:}
    type: fixed-load
opts:
transactionLoad: 120
  startingTps: 1
workload:
    module: benchmarks/datamanagement/workloads/historical-data-offer.js
    arguments:
   chaincodeID: basic
  byteSize: 32000
label: insert-historical-data-offer-64000-fixed-load
  description: >-
   Benchmarking the InsertTestHistoricalDataOffer function with a data size
  of 64000 bytes at a fixed load.
chaincodeID: basic
txDuration: 60
  rateControl:
    type: fixed-load
    opts:
transactionLoad: 150
       startingTps: 1
  workload:
    module: benchmarks/datamanagement/workloads/historical-data-offer.js
    arguments:
       chaincodeID: basic
byteSize: 64000
```

SUT

not provided