

DLT: fabric

Name: sensor-query

Description: This testcase is to determine the large numbers of consumer query the sensor from application to check the scalability on hyperledger. Successive rounds create and retrieve assets of larger byteSize.

Benchmark Rounds: 3

Details

Benchmark results

Summary

sensor-query-evaluate-100 sensor-query-evaluate-1000 sensor-query-evaluate-2000

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)
sensor-query- evaluate-100	450	0	28.8	10.59	0.20	6.88	24.7
sensor-query- evaluate-1000	450	0	33.4	10.83	0.14	7.55	26.3
sensor-query- evaluate-2000	449	0	32.7	12.36	0.13	8.83	25.6

Benchmark round: sensor-query-evaluate-100

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `sensorQuery`. This method performs a getState on an item that matches an asset of size 100 bytes.

txDuration: 1
rateControl:
 type: fixed-rate
 opts:
 tps: 200

Performance metrics for sensor-query-evaluate-100

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
sensor-query- evaluate-100	450	0	28.8	10.59	0.20	6.88	24.7

Resource utilization for sensor-query-evaluate-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-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
		dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
		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-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
		dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3



DLT: fabric

Name: sensor-query

Description: This testcase is to determine the large numbers of consumer query the sensor from application to check the scalability on hyperledger. Successive rounds create and retrieve assets of larger byteSize.

Benchmark Rounds: 3

Details

Benchmark results

Summary

sensor-query-evaluate-1000 sensor-query-evaluate-1000 sensor-query-evaluate-2000

System under test

Details

	orderer.example.com
	peer0.org1.example.com
	peer0.org2.example.com
um(rate(container_fs_writes_bytes_total{name=~".+"} .m])) by (name)	ca_orderer
	couchdb0
	couchdb1
	dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
	dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
	orderer.example.com
	peer0.org1.example.com
	peer0.org2.example.com
nm(rate(container_fs_reads_bytes_total{name=~",+"} .m])) by (name)	ca_orderer
	couchdb0
	couchdb1
	dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
	dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
	orderer.example.com
	peer0.org1.example.com
	peer0.org2.example.com

Benchmark round: sensor-query-evaluate-1000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `sensorQuery`. This method performs a getState on an item that matches an asset of size 1000 bytes.

txDuration: 1
rateControl:
 type: fixed-rate
 opts:
 tps: 200

Performance metrics for sensor-query-evaluate-1000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
sensor-query- evaluate-1000	450	0	33.4	10.83	0.14	7.55	26.3

Resource utilization for sensor-query-evaluate-1000 $\,$

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-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
		dev-peer0.org2.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3



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Name: sensor-query

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Benchmark Rounds: 3

Details

Benchmark results

<u>Summary</u>

sensor-query-evaluate-100 sensor-query-evaluate-1000 sensor-query-evaluate-2000

System under test

Details

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		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-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
		dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
		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-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
		dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
		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- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
		dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: sensor-query-evaluate-2000

 $Test \ an \ evaluate Transaction() \ Gateway \ method \ against \ the \ NodeJS \ `basic` \ Smart \ Contract \ method \ named \ `sensorQuery`. \ This \ method \ performs \ a \ getState \ on \ an \ item \ that \ matches \ an \ asset \ of \ size \ 2000 \ bytes.$

txDuration: 1
rateControl:
 type: fixed-rate
 opts:
 tps: 200

Performance metrics for sensor-query-evaluate-2000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
sensor-query- evaluate-2000	449	0	32.7	12.36	0.13	8.83	25.6



DLT: fabric

Name: sensor-query

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Benchmark Rounds: 3

Details

Benchmark results

Summary

sensor-query-evaluate-100 sensor-query-evaluate-1000 sensor-query-evaluate-2000

System under test

Details

Resource utilization for sensor-query-evaluate-2000

Resource monitor: prometheus

dev-pert0.org2.example.com-basic_1.0- e951b826621777403fa1461dc99e5c129473a06e4fe1c3c9cd9eb35cd orderer.example.com per0.org2.example.com per0.org2.example.com per0.org2.example.com	Metric	Prometheus Query	Name
couchdb1	Memory	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer
des-perd org Lexample.com-basic_1.0-			couchdb0
#95188262a17724931a1451646986cc120473a06e4fe1c3c4c4e8eb35cc de-speectiong2.example.com			couchdb1
e961b826e21777403fa1461dc9e5cc129473a06e4fe1c3c9cd9eb35cc orderexexample.com			dev-peer0.org1.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
peer0.org1.example.com peer0.org2.example.com			dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
pertlo.grg.example.com			orderer.example.com
Sum Tate (Container_cpu_usage_seconds_total (name=="."+") ca_ordere			peer0.org1.example.com
Couchdb Couc			peer0.org2.example.com
couchdb1 dev-peer0.org1.example.com-basic_1.0-e951b825e2a1772403fa1461dc59e5ce120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e951b826e2a1772403fa1461dc59e5ce120473a06e4fe1c3c9cd9eb35cc orderer.example.com peer0.org1.example.com peer0.org1.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com couchdb0 couchdb1 dev-peer0.org1.example.com-basic_1.0-e951b825e2a1772403fa1461dc59e5ce120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e951b825e2a1772403fa1461dc59e5ce120473a06e4fe1c3c9cd9eb35cc ordere.example.com peer0.org1.example.com peer0.org2.example.com peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3	I		ca_orderer
dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com peer0.org1.example.com peer0.org1.example.com peer0.org2.example.com peer0.org2.example.com ca_orderer (MB) couchdb0 couchdb1 dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com dev-peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com dev-peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com dev-peer0.org2.example.com couchdb0 couchdb0 couchdb1 dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e9			couchdb0
e9618826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com dev-peer0.org2.example.com peer0.org2.example.com			couchdb1
e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com			dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
peer0.org1.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com ca_orderer couchdb0 couchdb1 dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc6995cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc6995cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com peer0.org1.example.com peer0.org1.example.com peer0.org2.example.com ca_orderer couchdb1 dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev			dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
Disc Write (MB)			orderer.example.com
Disc Write (MB) sum(rate(container_fs_writes_bytes_total{name=~".+"} ca_orderer			peer0.org1.example.com
Write (MB) Sum(rate(container_Is_writes_bytes_total(name=="."+")) ca_orderer couchdb0 couchdb1 dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cd dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cd mercentage orderer.example.com peer0.org1.example.com peer0.org2.example.com peer0.org2.example.com ca_orderer canderer couchdb0 couchdb0 couchdb1 dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cd dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cd dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cd dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cd			peer0.org2.example.com
couchdb1 couchdb1 dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com peer0.org1.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com ca_orderer ca_orderer couchdb0 couchdb1 dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com orderer.	Write		ca_orderer
dev-peer0.org1.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com peer0.org1.example.com peer0.org2.example.com peer0.org2.example.com peer0.org2.example.com ca_orderer orderer.example.com ca_orderer orderer.example.com ca_orderer orderer.example.com orderer.example.com orderer.example.com orderer.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com			couchdb0
e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com peer0.org1.example.com peer0.org2.example.com peer0.org2.example.com ca_orderer [1m]) by (name) ca_orderer couchdb0 couchdb1 dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com			couchdb1
e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com peer0.org1.example.com peer0.org2.example.com Disc Read (MB) sum(rate(container_fs_reads_bytes_total{name=~".+"}} ca_orderer couchdb0 couchdb1 dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com			dev-peer0.org1.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
peer0.org1.example.com peer0.org2.example.com Disc Read (MB)			dev-peer0.org2.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
Disc Read (MB) sum(rate(container_fs_reads_bytes_total{name=~".+"} ca_orderer Couchdb0 Couchdb1 dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com			orderer.example.com
Disc Read (MB) sum(rate(container_fs_reads_bytes_total{name=~".+"}} ca_orderer couchdb0 couchdb1 dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com orderer.example.com			peer0.org1.example.com
Read (MB) sum(rate(container_fs_reads_bytes_total{name=~".+"}} ca_orderer ca_orderer couchdb0 couchdb1 dev-peer0.org1.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0-e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com			peer0.org2.example.com
couchdb1 dev-peer0.org1.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com	Read		ca_orderer
dev-peer0.org1.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com			couchdb0
e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc dev-peer0.org2.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com			couchdb1
e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cc orderer.example.com			dev-peer0.org1.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
			dev-peer0.org2.example.com-basic_1.0- e961b826e2a1772403fa1461dc69e5cc120473a06e4fe1c3c9cd9eb35cdb2ab3
peer0.org1.example.com			orderer.example.com
			peer0.org1.example.com
peer0.org2.example.com			peer0.org2.example.com

Test Environment

benchmark config



DLT: fabric

Name: sensor-query

Description: This testcase is to determine the large numbers of consumer query the sensor from application to check the scalability on hyperledger. Successive rounds create and retrieve assets of larger byteSize.

Benchmark Rounds: 3

Details

Benchmark results

Summary

sensor-query-evaluate-100 sensor-query-evaluate-1000 sensor-query-evaluate-2000

System under test

Details

```
description: >
   This testcase is to determine the large numbers of consumer query the sensor from application to check the scalability on hyperledger. Successive rounds
   create and retrieve assets of larger byteSize.
workers:
  number: 150
rounds:
      label: sensor-query-evaluate-100
     description: >-
Test an evaluateTransaction() Gateway method against the NodeJS `basic`
Smart Contract method named `sensorQuery`. This method performs a getState
on an item that matches an asset of size 100 bytes.
      chaincodeID: basic
      txDuration: 1
      rateControl:
         type: fixed-rate
opts:
            tps: 200
      workload:
         module: benchmarks/datamanagement/workloads/sensor-query.js
         arguments:
             chaincodeID: basic
            byteSize: 100
consensus: false
     label: sensor-query-evaluate-1000
description: >-
         Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `sensorQuery`. This method performs a getSt on an item that matches an asset of size 1000 bytes.
                                                                            This method performs a getState
      chaincodeID: basic
txDuration: 1
      rateControl:
        type: fixed-rate
opts:
            tps: 200
      workload:
         module: benchmarks/datamanagement/workloads/sensor-guerv.is
         arguments:
            chaincodeID: basic
noSetup: true
byteSize: 1000
consensus: false
     label: sensor-query-evaluate-2000
      description: >
         Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `sensorQuery`. This method performs a getState on an item that matches an asset of size 2000 bytes.
      chaincodeID: basic
txDuration: 1
      rateControl:
         type: fixed-rate
opts:
            tps: 200
      workload:
         module: benchmarks/datamanagement/workloads/sensor-query.js
         arguments:
             chaincodeID: basic
            noSetup: true
byteSize: 2000
            consensus: false
```

SUT

not provided

name: sensor-query