

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	90	0	74.8	0.76	0.27	0.59	54.1
sensor-query- evaluate-1000	90	0	73.5	0.63	0.07	0.49	57.2
sensor-query- evaluate-2000	90	0	76.7	0.70	0.15	0.50	56.6

# 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: 80

# 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	90	0	74.8	0.76	0.27	0.59	54.1

#### 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

<u>Summary</u>

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

#### System under test

**Details** 

	nyperiedger Cai	
		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-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: 80

### 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	90	0	73.5	0.63	0.07	0.49	57.2

# 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



DLT: fabric

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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

<u>Summary</u>

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

#### System under test

**Details** 

	Hyperledger Calip	per Report
		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: 80

#### 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	90	0	76.7	0.70	0.15	0.50	56.6



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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	l		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           couchdb0         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** 

```
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.
workers:
  number: 10
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: 80
      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
      rate {\tt Control}:
        type: fixed-rate
opts:
            tps: 80
      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: 80
      workload:
         module: benchmarks/datamanagement/workloads/sensor-query.js
         arguments:
             chaincodeID: basic
            noSetup: true
byteSize: 2000
            consensus: false
```

#### SUT

not provided