

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 | 250 | 0 | 66.3 | 3.84 | 0.18 | 3.18 | 39.6 |
| sensor-query- evaluate-1000 | 250 | 0 | 69.7 | 3.64 | 0.06 | 2.96 | 42.9 |
| sensor-query- evaluate-2000 | 250 | 0 | 83.4 | 3.26 | 0.06 | 2.81 | 47.3 |

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 | 250 | 0 | 66.3 | 3.84 | 0.18 | 3.18 | 39.6 |

Resource utilization for sensor-query-evaluate-100

Resource monitor: prometheus

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

System under test

Details

| | Tryperieuger Can | per report |
|-----------------------|---|---|
| | | 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: 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 | 250 | 0 | 69.7 | 3.64 | 0.06 | 2.96 | 42.9 |

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

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

| | Hyperleager Calip | Der 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 |
| | <u> </u> | |

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 | 250 | 0 | 83.4 | 3.26 | 0.06 | 2.81 | 47.3 |



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

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 ca_orderer couchdb0 couchdb1 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: 50
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