

DLT: fabric

Name: journey-schedule-

benchmark

Description: Benchmarking the Hyperledger Fabric network with the JourneySchedule function Benchmark Rounds: 3

Details

Benchmark results

Summary

<u>journey-schedule-1-100 bytesize</u> <u>journey-schedule-2-1000 bytesize</u> <u>journey-schedule-3-2000 bytesize</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)
journey-schedule-1-100 bytesize	20	0	2.0	0.50	0.13	0.29	1.9
journey-schedule-2- 1000 bytesize	20	0	2.0	0.44	0.17	0.30	1.9
journey-schedule-3- 2000 bytesize	20	0	2.0	0.46	0.21	0.35	1.9

Benchmark round: journey-schedule-1-100 bytesize

Benchmarking the JourneySchedule function with specific parameters.

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

Performance metrics for journey-schedule-1-100 bytesize

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
journey-schedule-1- 100 bytesize	20	0	2.0	0.50	0.13	0.29	1.9

Resource utilization for journey-schedule-1-100 bytesize

Resource monitor: prometheus

Metric	Prometheus Query	Name		
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer		
		couchdb0		
		couchdb1		
		dev-peer0.org1.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8		
		dev-peer0.org2.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8		
		orderer.example.com		
		peer0.org1.example.com		
		peer0.org2.example.com		
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"} [1m])) by (name)	ca_orderer		
		couchdb0		
		couchdb1		
		dev-peer0.org1.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8		
		dev-peer0.org2.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8		
		orderer.example.com		
	I .			



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		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
		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
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: journey-schedule-2-1000 bytesize

Another test case for JourneySchedule function.

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

Performance metrics for journey-schedule-2-1000 bytesize

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
journey-schedule-2- 1000 bytesize	20	0	2.0	0.44	0.17	0.30	1.9

Resource utilization for journey-schedule-2-1000 bytesize

Resource monitor: prometheus

Metric	Prometheus Query	Name
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8
		dev-peer0.org2.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"} [1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-



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

Benchmark round: journey-schedule-3-2000 bytesize

Yet another test case for JourneySchedule function.

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

Performance metrics for journey-schedule-3-2000 bytesize

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
journey-schedule-3- 2000 bytesize	20	0	2.0	0.46	0.21	0.35	1.9

Resource utilization for journey-schedule-3-2000 bytesize

Resource monitor: prometheus

Metric	Prometheus Query	Name
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8
		dev-peer0.org2.example.com-basic_1.0- 06ae9571ee4eeadc6e98048d50ab0d2f300beed87dbecb5f570d58cf7a4fc8e8
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
CPU	sum(rate(container_cpu_usage_seconds_total{name=~".+"}	ca_orderer



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

Test Environment

benchmark config

```
name: journey-schedule-benchmark
description: Benchmarking the Hyperledger Fabric network with the JourneySchedule
function
workers:
number: 10 rounds:
     label: journey-schedule-1-100 bytesize
description: Benchmarking the JourneySchedule function with specific
parameters.
     chaincodeID: basic
     chaincodeID: basic
txDuration: 1
rateControl:
   type: fixed-rate
   opts:
     tps: 1
workload:
module: benchmarks/datamanagement/workloads/create-journey.js
        arguments:
chaincodeID: basic
    byteSize: 100
label: journey-schedule-2-1000 bytesize
description: Another test case for JourneySchedule function.
chaincodeID: basic
      txDuration: 1
     rateControl:
  type: fixed-rate
        opts:
tps: 1
     workload:
        module: benchmarks/datamanagement/workloads/create-journey.js
        arguments:
          chaincodeID: basic
byteSize: 1000
     label: journey-schedule-3-2000 bytesize
description: Yet another test case for JourneySchedule function.
chaincodeID: basic
      txDuration: 1
     rateControl:
type: fixed-rate
        opts:
tps: 1
     workload:
  module: benchmarks/datamanagement/workloads/create-journey.js
```



chaincodeID: basic byteSize: 2000

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Basic information

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not provided