

BlockCom pass Report

Dec 7, 2021

☰ Description

This report presents the results of running the *BlockCompass* workload that performs simple insert action to a Blockchain Network. The observed metrics are resource consumption metrics (CPU, Memory, Network Input and Network Output) and performance metrics (latency, emit rate, throughput and error rate).

1. Summary

#	Minimum	Maximum	Mean	Variance
CPU Utilization	1.626	3.314	2.542	0.1
Memory(%)	0.296	0.432	0.308	0.0
Network Input (MB)	31.46	121.4	81.353	72,
Network Output (MB)	5.388	56.86	81.353	23,
Users #	0	100	60.833	800
Emit rate (transaction/sec)	38	57	42.517	43.
Throughput (transaction/sec)	38	57	42.517	43.
Latency (ms)	0	73,752,825.658	15,274.117	59,
Error rate	0	0	0	0

☰ Configuratio n

Platform:

Hyperledger
Fabric

Consensus: Raft

Number of Nodes: 5

DataSize: 2

Receivers

Nodes: peer 1
organization 1

2. Performance Metrics

Fig2.1. Number Of Users

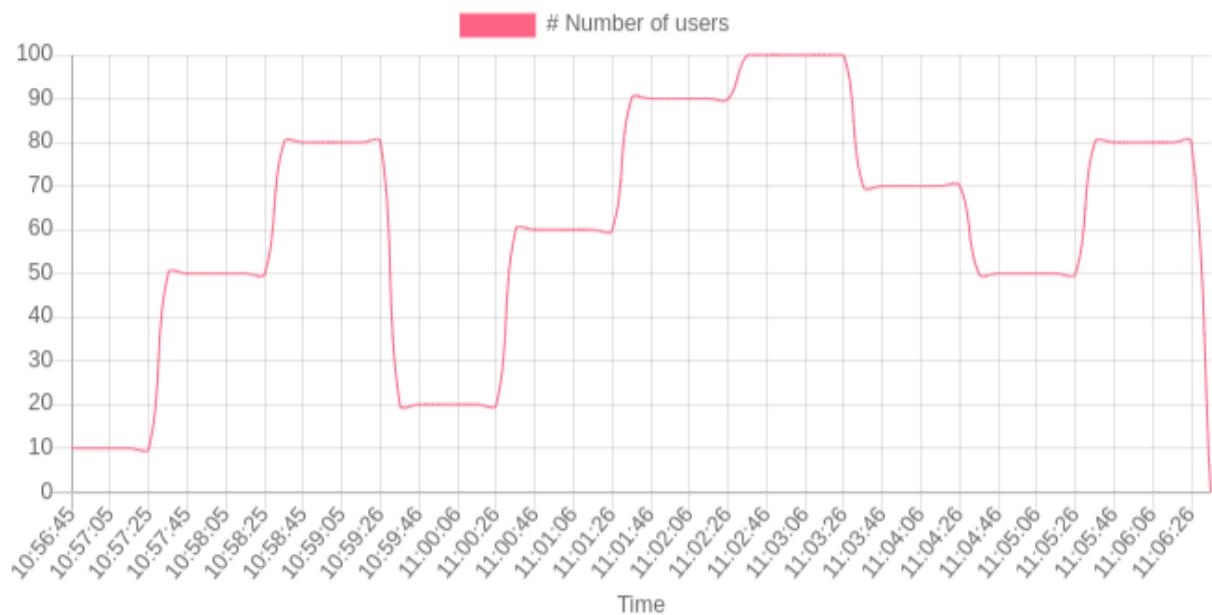


Fig2.2. Number Of Requests

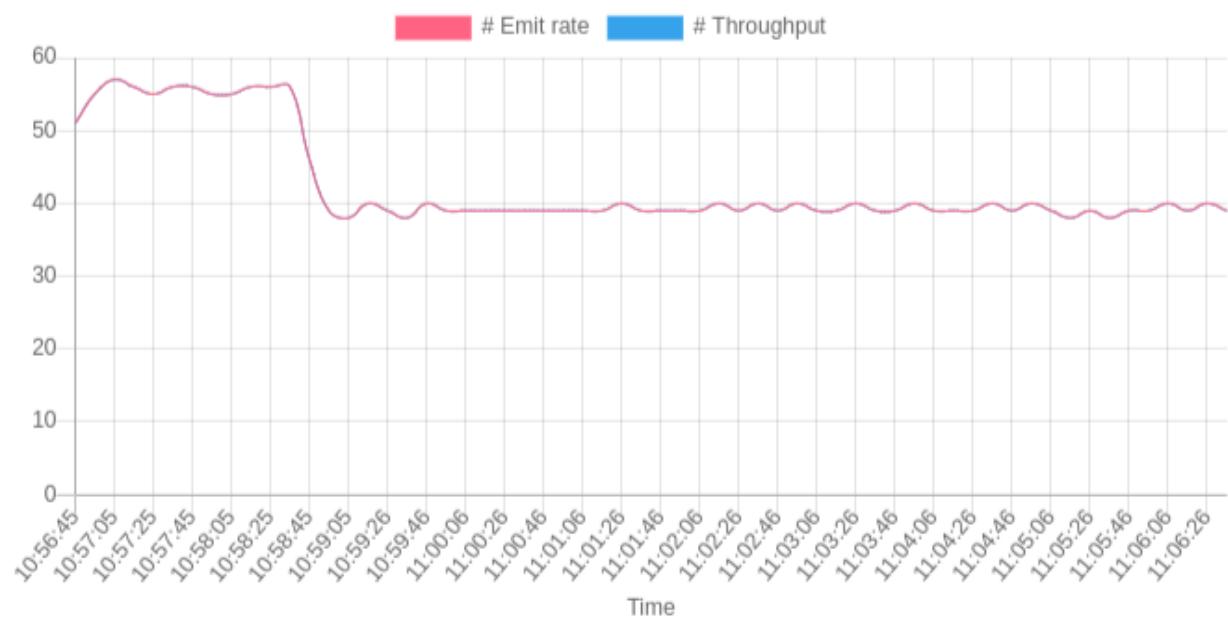


Fig2.3. Latency

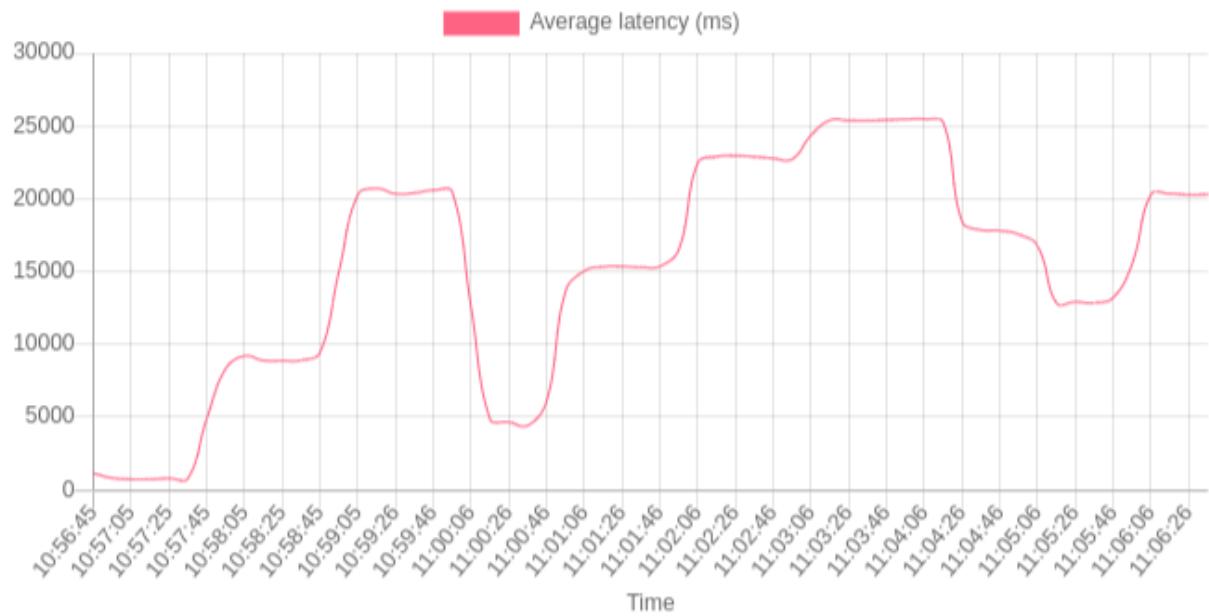


Fig2.4. Error Rate



3. Resource Utilization

Fig3.1. CPU Utilization (%)

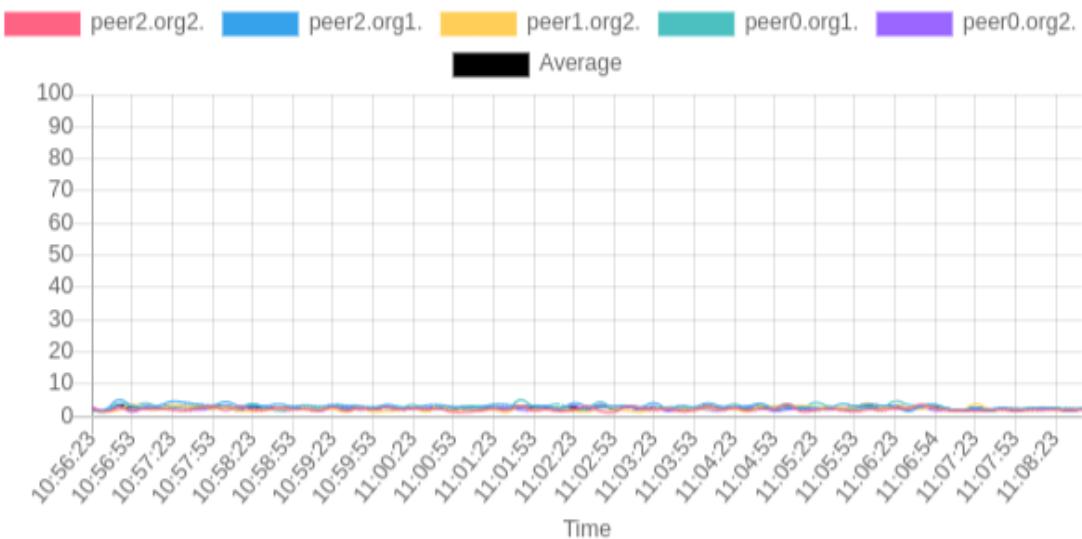


Fig3.2. Memory Utilization (%)

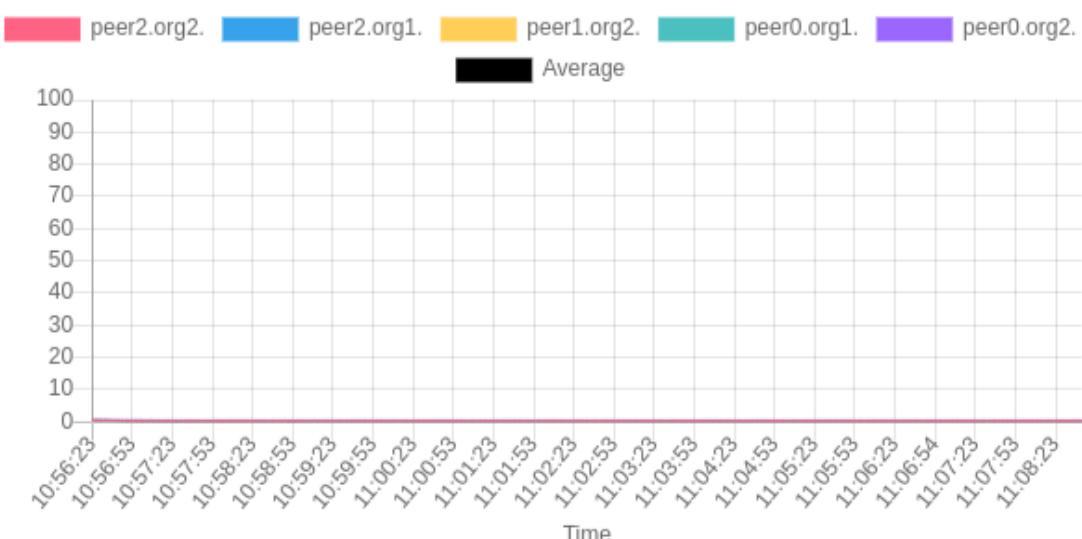


Fig3.3. Network Input (Bytes)



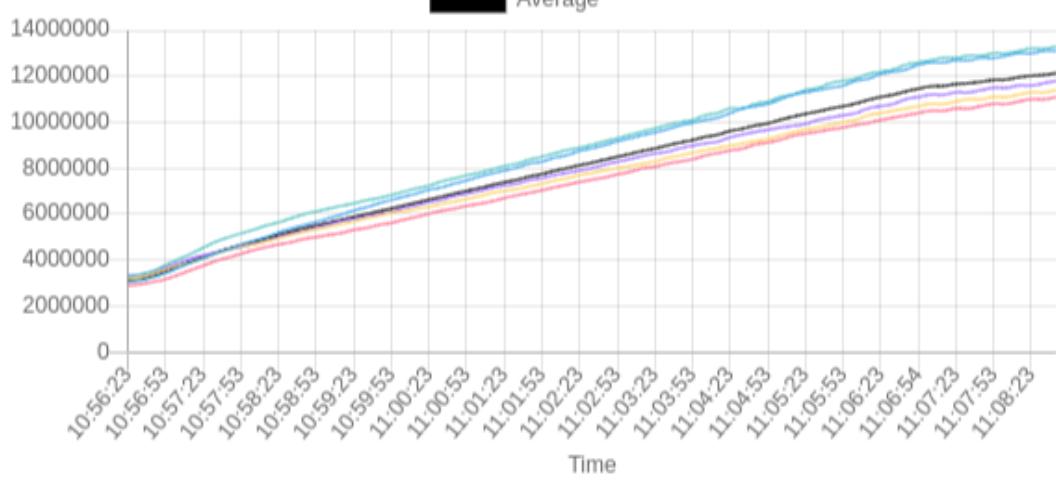
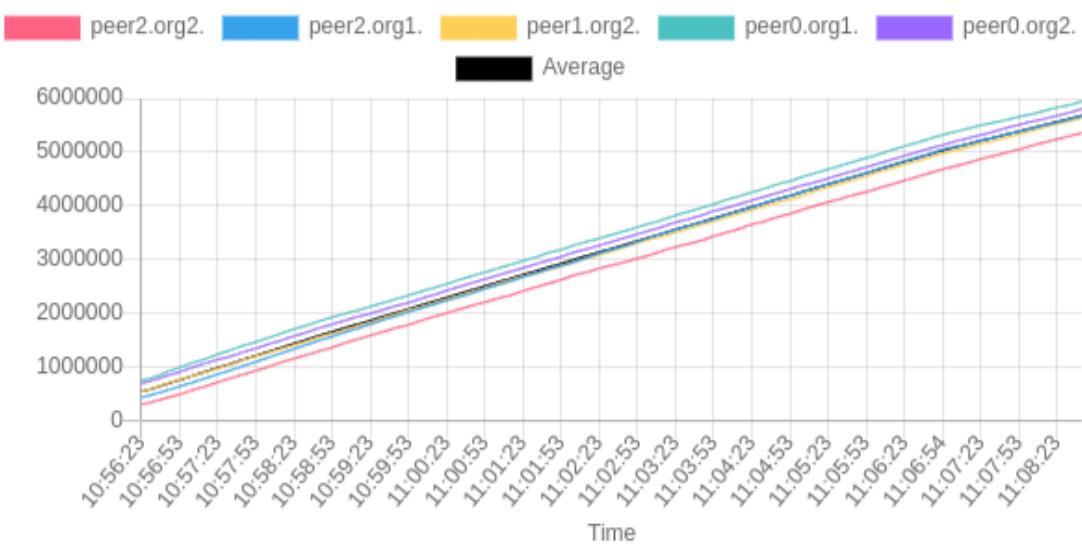


Fig3.4. Network Input Output (Bytes)



4. Comments