Wei weekly Spring 2026
20260203

Balanced setup

Org	Peer	CPU	RAM	CPU Total	RAM Total	CPU Total Per Org	RAM Total Per Org
Org1	Peer1 (Fabric, endorser)	4 cores	8 GB	16 cores	16 GB	32 cores	32 GB
	Peer1 (CouchDB)	4 cores	8 GB				
	Peer2 (Fabric, non-endorser)	4 cores	8 GB	16 cores	16 GB		
	Peer2 (CouchDB)	4 cores	8 GB				
Org2	Peer1 (Fabric, endorser)	4 cores	8 GB	8 cores	16 GB	16 cores	32 GB
	Peer1 (CouchDB)	4 cores	8 GB				
	Peer2 (Fabric, non-endorser)	4 cores	8 GB	8 cores	16 GB		
	Peer2 (CouchDB)	4 cores	8 GB				

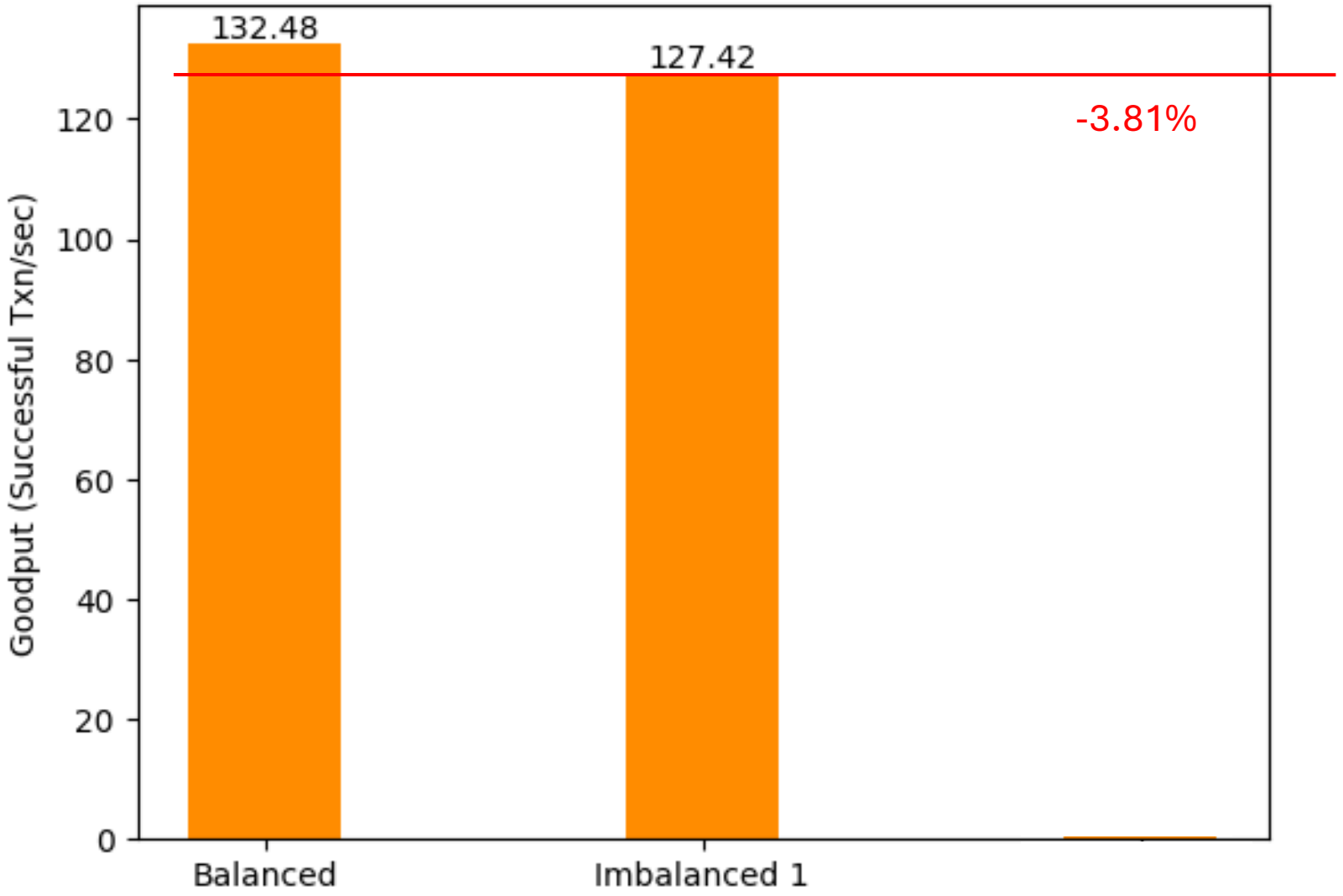
Imbalanced hardware allocation 1

Org	Peer	CPU	RAM	CPU Total	RAM Total	CPU Total Per Org	RAM Total Per Org
Org1	Peer1 (Fabric, endorser)	6 cores	8 GB	12 cores	16 GB	24 cores	32 GB
	Peer1 (CouchDB)	6 cores	8 GB				
	Peer2 (Fabric, non-endorser)	6 cores	8 GB	12 cores	16 GB		
	Peer2 (CouchDB)	6 cores	8 GB				
Org2	Peer1 (Fabric, endorser)	2 cores	8 GB	4 cores	16 GB	8 cores	32 GB
	Peer1 (CouchDB)	2 cores	8 GB				
	Peer2 (Fabric, non-endorser)	2 cores	8 GB	4 cores	16 GB		
	Peer2 (CouchDB)	2 cores	8 GB				

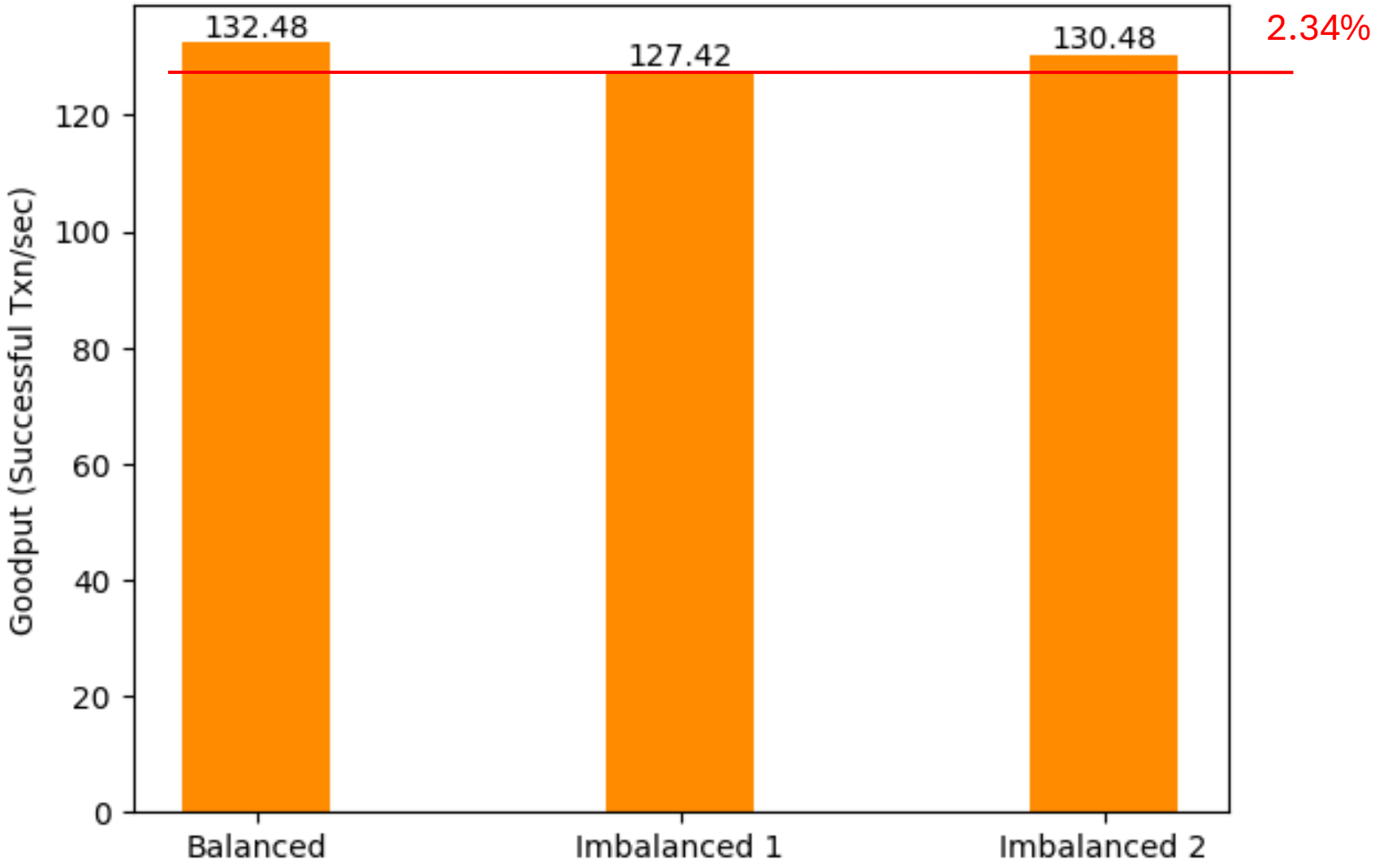
Imbalanced hardware allocation 2

Org	Peer	CPU	RAM	CPU Total	RAM Total	CPU Total Per Org	RAM Total Per Org
Org1	Peer1 (Fabric, endorser)	6 cores	8 GB	10 cores	16 GB	20 cores	32 GB
	Peer1 (CouchDB)	4 cores	8 GB				
	Peer2 (Fabric, non-endorser)	6 cores	8 GB	10 cores	16 GB		
	Peer2 (CouchDB)	4 cores	8 GB				
Org2	Peer1 (Fabric, endorser)	2 cores	8 GB	6 cores	16 GB	12 cores	32 GB
	Peer1 (CouchDB)	4 cores	8 GB				
	Peer2 (Fabric, non-endorser)	2 cores	8 GB	6 cores	16 GB		
	Peer2 (CouchDB)	4 cores	8 GB				

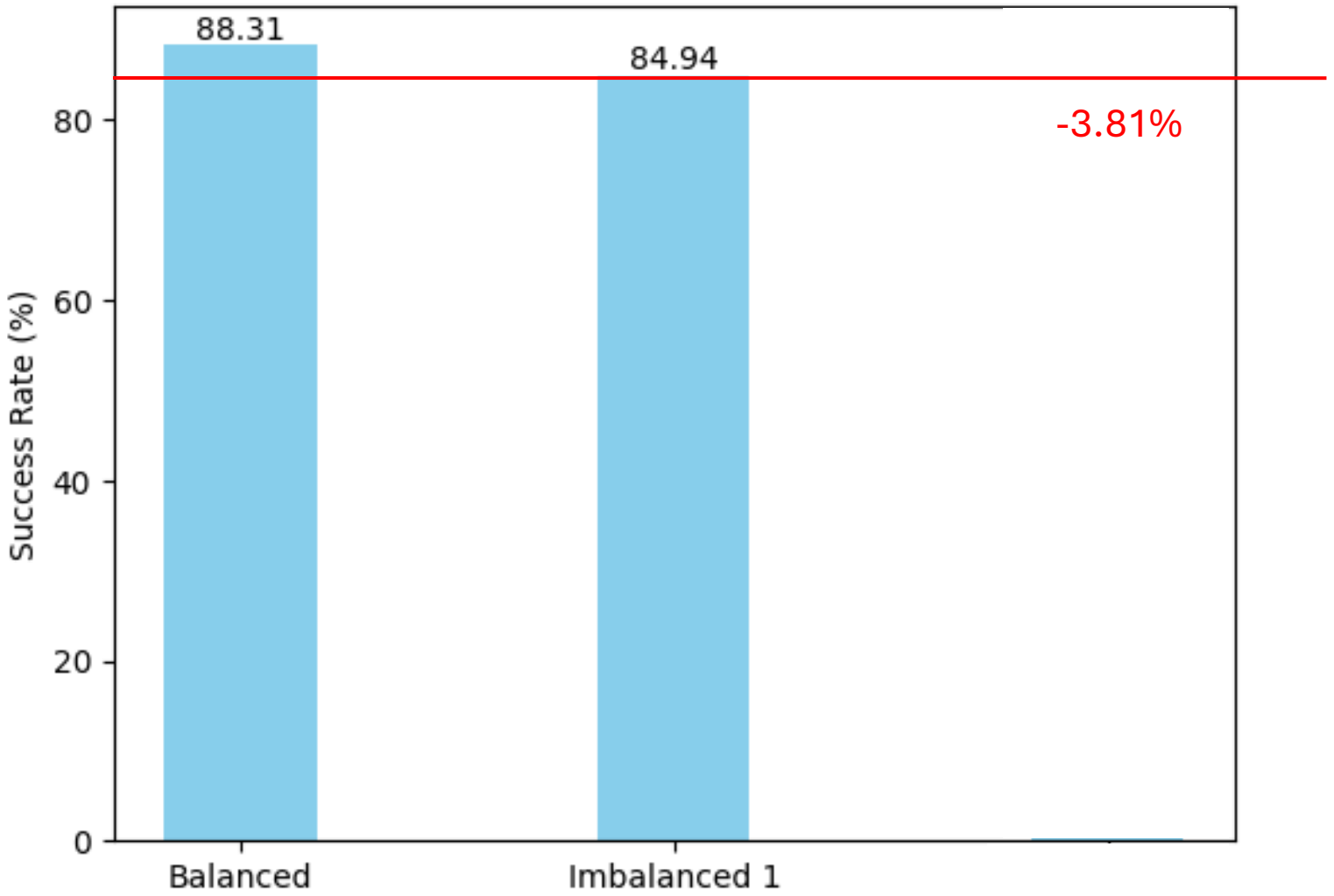
Performance comparison (Goodput)



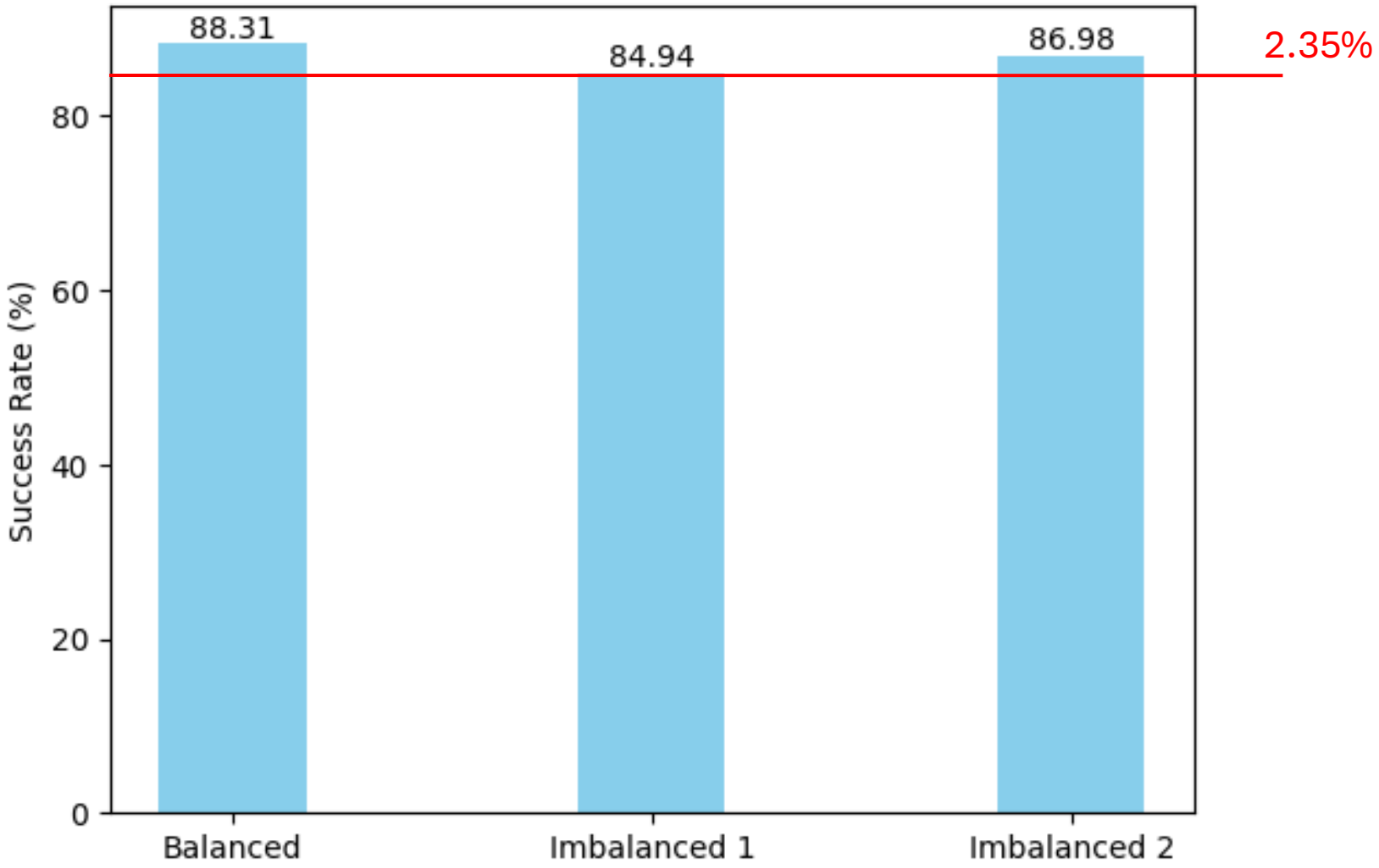
Performance comparison (Goodput)



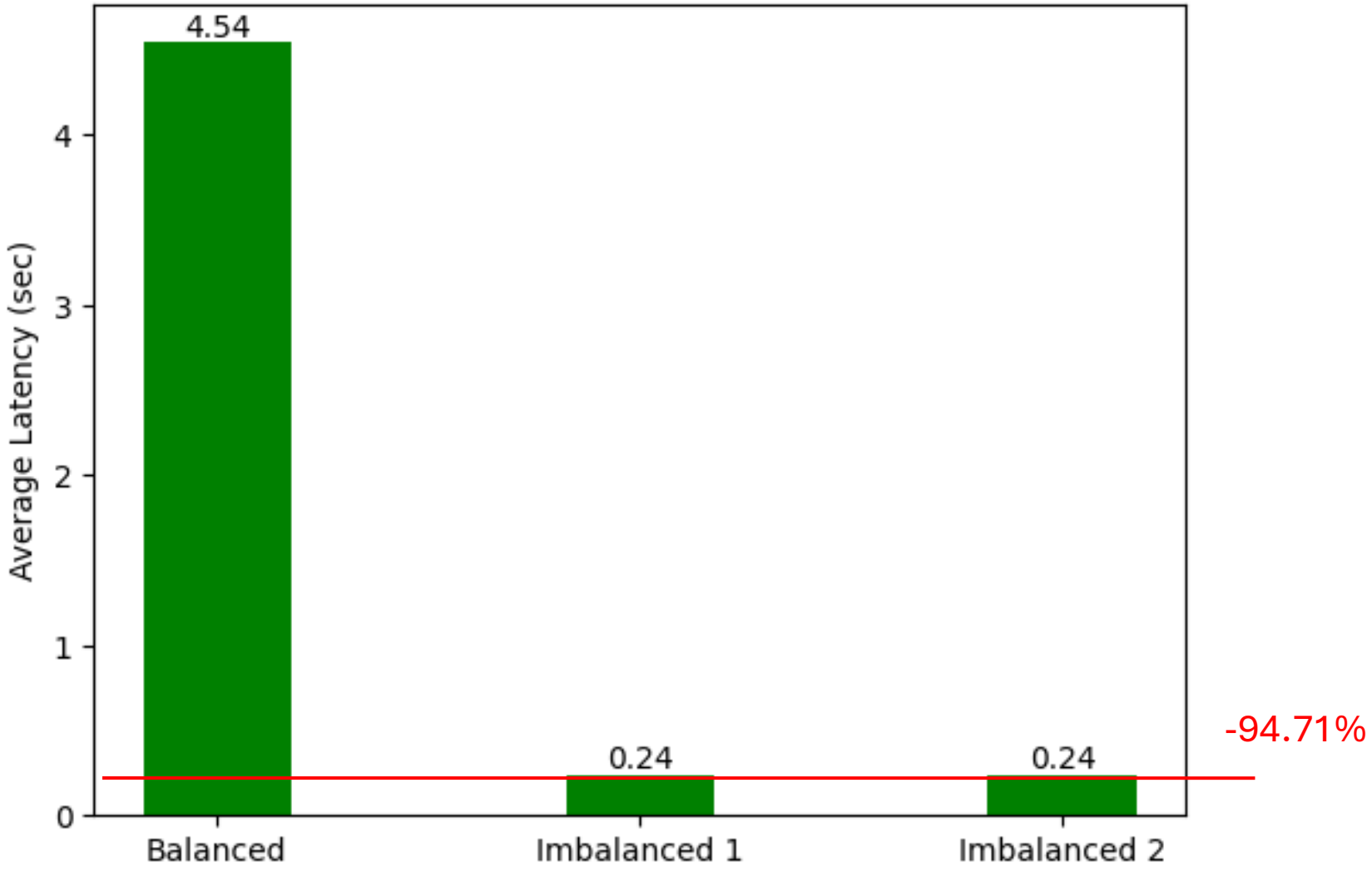
Performance comparison (Success rate)



Performance comparison (Success rate)



Performance comparison (Avg Latency)



Observations

- For imbalanced setup (One Org's peers have more cores)
  - Overall performance (Goodput, success rate) slightly affected
  - Avg latency was significantly reduced
- Resource allocated to statedb (CouchDB in this case) also affects overall performance

Next step

- Clean up the new testbed deployed using ansible scripts
- Separate each peer to each machine
  - e.g., 6 node setup, each peer is having its own machine
- Experiments with more chaincodes (EHR and supply chain)