

# Scaling Validation Report

All replica tiers (1, 2, 4) consolidated under locust/results/multi\_replica\_v1.

Key Findings:

- For 200 users: RPS improved by 29.77 and failure rate changed by 63.40 pts when scaling from 1 to 2
- For 400 users: RPS improved by 9.71 and failure rate changed by 79.57 pts when scaling from 1 to 2
- For 800 users: RPS improved by 8.98 and failure rate changed by 91.13 pts when scaling from 1 to 2

Metadata Status:

- Replica 1.0 / 800.0 users: max\_user\_count=1000.0
- Replica 2.0 / 200.0 users: spawn mismatch log=40.0 approx=100.00
- Replica 2.0 / 400.0 users: spawn mismatch log=60.0 approx=100.00
- Replica 2.0 / 800.0 users: spawn mismatch log=80.0 approx=114.29
- Replica 4.0 / 200.0 users: spawn mismatch log=40.0 approx=100.00
- Replica 4.0 / 400.0 users: spawn mismatch log=60.0 approx=100.00
- Replica 4.0 / 800.0 users: max\_user\_count=1200.0
- Replica 4.0 / 800.0 users: spawn mismatch log=80.0 approx=114.29

replicas	user_count	request_count	failure_count	failure_pct	requests_per_sec	median_ms	p95_ms	stats
1	200	754.00	478.00	63.40	12.33	1400.00	5200.00	locust
1	400	4058.00	3229.00	79.57	33.27	1700.00	4200.00	locust
1	800	7708.00	7024.00	91.13	31.92	2500.00	62000.00	locust
2	200	3143.00	0.00	0.00	25.55	3300.00	5500.00	
2	400	3547.00	0.00	0.00	29.16	8900.00	12000.00	
Metric Snapshot:		3532.00	303.00	8.58	28.76	19000.00	28000.00	
		5055.00	0.00	0.00	42.10	2000.00	3000.00	
4	400	5210.00	0.00	0.00	42.98	5200.00	7500.00	
4	800	4883.00	0.00	0.00	40.90	11000.00	24000.00	







