

Verteilte Systeme – SS23

Aufgabe 4: Message-oriented Middleware (MoM)

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06.07.23		Mi4y	

Messprotokoll (Excel Tabelle)

Case	#Banks - UDP Server/ MQTT Clients	#Stockma rkets - UDP Client	#UDP- Packets sent(per Stockmar ket)	#UDP- lostPacke ts	UDP-Packet Loss Rate	#Banks - RPC Server	#Bank - RPC Client	RPC: RTT- Avg (ms)		#Users - TCP Client	#TCP- Requests sent	TCP-RTT	MQTT- RTT
1.1	3	1	100	200/300	66.66%	1	2	438.5		1	50	87.64	12
1.2	3	1	100	148/300	49.33%	1	2	365.3		1	50	72.2	7.8
1.3	3	1	100	53/300	17.66%	1	2	322.5		1	50	50.4	6.9
avg					44.56%			375.4333				70.08	8.9
2.1	3	1	1000	2447/3000	81.56%	1	2	450.5		1	500	175.23	21.5
2.2	3	1	1000	1722/3000	57.40%	1	2	388.2		1	500	120.55	19.33
2.3	3	1	1000	1135/3000	37.83%	1	2	364.5		1	500	89.45	17.24
avge					58.93%			401.0667				128.41	19.35667
3.1	3	1	10,000	23322/30000	77.74%	1	2	744.3		1	5,000	323.22	22.35
3.2	3	1	10,000	18055/30000	60.18%	1	2	703.23		1	5,000	287.22	17.55
3.3	3	1	10,000	14325/30000	47.75%	1	2	692.54		1	5,000	283.5	14.23
avg					61.89%			713.3567				297.98	18.04333
4.1	3	2	100	350/600	58.33%	1	2	410.25		1	50	166.25	23
4.2	3	2	100	433/600	72.17%	1	2	395		1	50	115.33	17
4.3	3	2	100	328/600	54.66%	1	2	377.5		1	50	102.45	18.5
avg					61.72%			394.25				128.01	19.5
5.1	3	2	1000	4320/6000	72.00%	1	2	1233		1	500	240.7	35
5.2	3	2	1000	4290/6000	71.50%	1	2	790.25		1	500	283	24.2
5.3	3	2	1000	3780/6000	63.00%	1	2	822.33		1	500	275	17.55
avg					68.83%			948.5267				266.2333	25.58333
6.1	4	1	100	316/400	79.00%	1	3	633.55		1	50	82.5	69.25
6.2	4	1	100	278/400	69.50%	1	3	597.2		1	50	25.98	70.23
6.3	4	1	100	255/400	63.75%	1	3	601.25		1	50	56.6	66.45
avg					70.75%			610.6667				55.02667	68.64333
7.1	4	1	1000	3224/4000	80.60%	1	3	825.25		1	500	83.15	103.25
7.2	4	1	1000	2896/4000	72.40%	1	3	677.5		1	500	66.55	80.9
7.3	4	1	1000	2430/4000	60.75%	1	3	645.1		1	500	47.2	79.5
avg					71.25%			715.95				65.63333	87.88333