

Informe punto de quiebre Microservicio

Se realizan pruebas con jmeter con distintas cantidades de usuarios, desde 10 hasta 1100 usuarios.

Podemos concluir que la aplicación no soporta más de 10 usuarios, esto es porque definimos con tiempo de espera máximo de 10 segundos para esta API, se agrega al test la api de integración para el valor de la UF, este promedia 1.5 - 2 segundos.

No llegamos al punto de romper la app porque el hardware es bastante potente, pero en si el micro servicio se degrada al pasar los 10 usuarios en el tiempo de respuesta.

Todo el detalle se puede apreciar en los resultados a continuación:

10 usuarios

Summary:

Summary Report

Name:

Summary Report

Comments:

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Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
API-MS	10	7600	6835	8122	395.35	0.00%	1.1/sec	0.29	0.18	258.0
API-INT	10	1461	1033	2140	321.22	0.00%	3.6/sec	8.59	0.43	2456.2
TOTAL	20	4530	1033	8122	3090.31	0.00%	2.0/sec	2.63	0.27	1357.1

Results:

Sample #	Start Time	Thread Name	Label ▲	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	22:20:04.105	API 1-1	API-MS	5486	✓	258	161	5485	1
2	22:20:04.207	API 1-2	API-MS	6190	✓	258	161	6190	1
3	22:20:04.805	API 1-8	API-MS	6416	✓	258	161	6415	1
5	22:20:04.705	API 1-7	API-MS	9076	✓	258	161	9076	1
7	22:20:04.506	API 1-5	API-MS	11326	✓	258	161	11326	1
9	22:20:04.606	API 1-6	API-MS	11728	✓	258	161	11728	0
11	22:20:04.407	API 1-4	API-MS	12600	✓	258	161	12600	0
12	22:20:05.006	API 1-10	API-MS	12032	✓	258	161	12032	0
16	22:20:04.905	API 1-9	API-MS	16630	✓	258	161	16630	1
18	22:20:04.305	API 1-3	API-MS	17580	✓	258	161	17579	0
4	22:20:09.590	API 1-1	UF	4175	✓	2456	122	4175	416
6	22:20:13.781	API 1-7	UF	1023	✓	2458	122	1023	389
8	22:20:11.221	API 1-8	UF	4653	✓	2456	122	4653	389
10	22:20:15.831	API 1-5	UF	936	✓	2458	122	936	382
13	22:20:16.333	API 1-6	UF	1203	✓	2456	122	1203	385
14	22:20:10.398	API 1-2	UF	7919	✓	2454	122	7919	402
15	22:20:17.007	API 1-4	UF	2149	✓	2454	122	2148	385
17	22:20:17.038	API 1-10	UF	4687	✓	2454	122	4687	389
19	22:20:21.885	API 1-3	UF	1509	✓	2456	122	1509	797
20	22:20:21.536	API 1-9	UF	5961	✓	2454	122	5961	384

20 usuarios

Summary Report

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Comments:

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Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
API-MS	20	10000	3952	14964	3304.28	0.00%	1.3/sec	0.32	0.20	258.0
JF	20	2044	668	5120	1157.32	0.00%	1.6/sec	3.81	0.19	2456.9
TOTAL	40	6022	668	14964	4685.22	0.00%	2.4/sec	3.21	0.33	1357.5

Sample #	Start Time	Thread Name	Label ▲	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	22:49:01.122	API 1-1	API-MS	3952	✓	258	161	3952	1
2	22:49:01.474	API 1-8	API-MS	6100	✓	258	161	6100	0
4	22:49:01.673	API 1-12	API-MS	6398	✓	258	161	6397	0
5	22:49:01.423	API 1-7	API-MS	6914	✓	258	161	6914	1
6	22:49:01.323	API 1-5	API-MS	7025	✓	258	161	7024	0
7	22:49:01.522	API 1-9	API-MS	7179	✓	258	161	7178	1
9	22:49:01.273	API 1-4	API-MS	8111	✓	258	161	8111	1
10	22:49:01.373	API 1-6	API-MS	8529	✓	258	161	8528	1
12	22:49:01.773	API 1-14	API-MS	8194	✓	258	161	8194	0
15	22:49:01.573	API 1-10	API-MS	8529	✓	258	161	8529	0
18	22:49:01.174	API 1-2	API-MS	10158	✓	258	161	10158	0
20	22:49:01.823	API 1-15	API-MS	10291	✓	258	161	10291	1
22	22:49:01.723	API 1-13	API-MS	11207	✓	258	161	11207	1
23	22:49:01.623	API 1-11	API-MS	12027	✓	258	161	12027	0
25	22:49:01.872	API 1-16	API-MS	12941	✓	258	161	12940	0
28	22:49:01.223	API 1-3	API-MS	14589	✓	258	161	14589	1
29	22:49:01.922	API 1-17	API-MS	14052	✓	258	161	14052	0
30	22:49:02.073	API 1-20	API-MS	13902	✓	258	161	13902	0
35	22:49:01.972	API 1-18	API-MS	14944	✓	258	161	14944	1
37	22:49:02.023	API 1-19	API-MS	14964	✓	258	161	14964	0

50 usuarios

Summary:

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
API-MS	50	20322	8883	28693	6101.06	0.00%	1.7/sec	0.43	0.27	258.0
UF	50	1618	805	3702	628.29	0.00%	2.4/sec	5.67	0.28	2456.2
TOTAL	100	10970	805	28693	10308.75	0.00%	3.3/sec	4.40	0.46	1357.1

View Results in Table

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Errors

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Successes

Configure

Sample #	Start Time	Thread Name	Label ^	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	22:26:28.179	API 1-4	API-MS	8883	✓	258	161	8883	1
3	22:26:28.279	API 1-9	API-MS	10450	✓	258	161	10450	1
4	22:26:28.140	API 1-2	API-MS	11227	✓	258	161	11227	0
5	22:26:28.480	API 1-19	API-MS	10933	✓	258	161	10932	0
6	22:26:28.539	API 1-22	API-MS	10954	✓	258	161	10954	1
7	22:26:28.979	API 1-44	API-MS	10809	✓	258	161	10809	0
9	22:26:29.020	API 1-46	API-MS	11186	✓	258	161	11186	0
11	22:26:28.260	API 1-8	API-MS	12311	✓	258	161	12311	0
12	22:26:28.320	API 1-11	API-MS	12629	✓	258	161	12629	0
14	22:26:28.500	API 1-20	API-MS	13073	✓	258	161	13073	1
17	22:26:28.520	API 1-21	API-MS	13291	✓	258	161	13291	1
18	22:26:28.619	API 1-26	API-MS	13812	✓	258	161	13812	1
20	22:26:28.219	API 1-6	API-MS	15102	✓	258	161	15102	0
21	22:26:29.080	API 1-49	API-MS	14309	✓	258	161	14309	0
26	22:26:29.100	API 1-50	API-MS	14821	✓	258	161	14821	0
28	22:26:29.040	API 1-47	API-MS	15802	✓	258	161	15802	0
30	22:26:28.579	API 1-24	API-MS	17083	✓	258	161	17083	1
35	22:26:28.200	API 1-5	API-MS	18809	✓	258	161	18809	0
36	22:26:28.240	API 1-7	API-MS	19085	✓	258	161	19085	1
39	22:26:28.601	API 1-25	API-MS	19833	✓	258	161	19833	0
40	22:26:28.299	API 1-10	API-MS	20293	✓	258	161	20293	1
41	22:26:28.160	API 1-3	API-MS	20842	✓	258	161	20842	0
43	22:26:28.119	API 1-1	API-MS	21513	✓	258	161	21513	1
44	22:26:29.060	API 1-48	API-MS	20746	✓	258	161	20746	0
45	22:26:28.761	API 1-33	API-MS	21149	✓	258	161	21149	0
48	22:26:28.799	API 1-35	API-MS	21505	✓	258	161	21504	0
49	22:26:28.779	API 1-34	API-MS	21709	✓	258	161	21709	1
52	22:26:28.959	API 1-43	API-MS	22118	✓	258	161	22118	0
53	22:26:28.559	API 1-23	API-MS	22533	✓	258	161	22533	0
55	22:26:28.839	API 1-37	API-MS	22329	✓	258	161	22329	0
58	22:26:28.940	API 1-42	API-MS	22902	✓	258	161	22902	1
59	22:26:28.900	API 1-40	API-MS	23340	✓	258	161	23340	0
60	22:26:28.740	API 1-32	API-MS	23667	✓	258	161	23667	0
63	22:26:28.819	API 1-36	API-MS	24266	✓	258	161	24266	1
67	22:26:28.378	API 1-14	API-MS	25282	✓	258	161	25282	1
68	22:26:28.880	API 1-39	API-MS	25464	✓	258	161	25464	1
69	22:26:28.360	API 1-13	API-MS	26083	✓	258	161	26082	0
71	22:26:28.859	API 1-38	API-MS	25596	✓	258	161	25596	1
72	22:26:28.999	API 1-45	API-MS	25458	✓	258	161	25457	0
75	22:26:28.339	API 1-12	API-MS	27255	✓	258	161	27254	1
77	22:26:28.920	API 1-41	API-MS	26858	✓	258	161	26858	1
78	22:26:28.460	API 1-18	API-MS	27333	✓	258	161	27333	0
81	22:26:28.439	API 1-17	API-MS	27466	✓	258	161	27465	1
82	22:26:28.419	API 1-16	API-MS	27752	✓	258	161	27751	1
83	22:26:28.399	API 1-15	API-MS	27859	✓	258	161	27859	0
84	22:26:28.700	API 1-30	API-MS	27755	✓	258	161	27755	1
85	22:26:28.640	API 1-27	API-MS	27826	✓	258	161	27826	1

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No of Samples 100

Latest Sample 805

Average 10970

Deviation 10308

100 usuarios

Summary Report

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Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
API-MS	100	32932	7911	50783	11914.39	0.00%	2.0/sec	0.49	0.31	258.0
UF	100	1765	1014	3610	557.69	0.00%	2.3/sec	5.40	0.27	2456.7
TOTAL	200	17349	1014	50783	17719.24	0.00%	3.8/sec	5.06	0.53	1357.3
161	22:28:29.170	API 1-34	API-MS	47130	✓	258	161	47129	1	
162	22:28:29.958	API 1-52	API-MS	47399	✓	258	161	47399	0	
163	22:28:29.638	API 1-20	API-MS	47890	✓	258	161	47890	1	
164	22:28:30.049	API 1-61	API-MS	47557	✓	258	161	47556	0	
166	22:28:29.988	API 1-55	API-MS	47724	✓	258	161	47724	0	
169	22:28:29.928	API 1-49	API-MS	48310	✓	258	161	48310	1	
170	22:28:29.938	API 1-50	API-MS	48331	✓	258	161	48330	1	
173	22:28:29.978	API 1-54	API-MS	48352	✓	258	161	48352	1	
174	22:28:29.969	API 1-53	API-MS	48402	✓	258	161	48402	0	
175	22:28:29.787	API 1-35	API-MS	49076	✓	258	161	49076	1	
177	22:28:29.948	API 1-51	API-MS	49110	✓	258	161	49110	1	
179	22:28:29.998	API 1-56	API-MS	49082	✓	258	161	49082	1	
180	22:28:29.919	API 1-48	API-MS	49370	✓	258	161	49370	1	
184	22:28:30.008	API 1-57	API-MS	50013	✓	258	161	50013	0	
186	22:28:30.018	API 1-58	API-MS	50243	✓	258	161	50243	1	
188	22:28:29.808	API 1-37	API-MS	50505	✓	258	161	50505	0	
190	22:28:29.829	API 1-39	API-MS	50600	✓	258	161	50599	0	
191	22:28:29.818	API 1-38	API-MS	50783	✓	258	161	50782	0	
170	22:29:17.529	API 1-20	UF	1546	✓	2456	122	1546	399	
178	22:29:17.529	API 1-20	UF	1546	✓	2456	122	1546	399	
181	22:29:17.606	API 1-61	UF	1849	✓	2454	122	1849	383	
182	22:29:18.372	API 1-53	UF	1090	✓	2456	122	1090	381	
183	22:29:18.238	API 1-49	UF	1678	✓	2456	122	1678	390	
185	22:29:18.863	API 1-35	UF	1313	✓	2460	122	1313	395	
187	22:29:18.270	API 1-50	UF	2018	✓	2454	122	2018	385	
189	22:29:17.712	API 1-55	UF	2624	✓	2456	122	2624	400	
192	22:29:19.080	API 1-56	UF	1693	✓	2456	122	1693	395	
193	22:29:19.059	API 1-51	UF	1909	✓	2454	122	1909	381	
194	22:29:18.331	API 1-54	UF	2698	✓	2456	122	2698	386	
195	22:29:19.290	API 1-48	UF	1755	✓	2454	122	1755	397	
196	22:29:20.022	API 1-57	UF	1317	✓	2458	122	1317	397	
197	22:29:20.261	API 1-58	UF	1254	✓	2454	122	1254	376	
198	22:29:20.601	API 1-38	UF	1050	✓	2460	122	1050	381	
199	22:29:20.429	API 1-39	UF	1325	✓	2456	122	1325	385	
200	22:29:20.314	API 1-37	UF	1477	✓	2454	122	1477	377	

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No of Samples 200 Latest Sample 1477 Average 17349 Deviation 17719

1100 usuarios

Summary Report

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☐ Errors

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Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
API-MS	1100	264365	4602	537922	163965.72	0.00%	1.7/sec	0.43	0.27	258.0
UF	1100	1851	888	10196	886.16	0.00%	1.7/sec	4.10	0.20	2456.7
TOTAL	2200	133108	888	537922	175132.11	0.00%	3.4/sec	4.48	0.47	1357.9

Sample #	Start Time	Thread Name	Label ▲	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
2105	22:30:21.833	API 1-982	API-MS	517449	✓	258	161	517449	0
2106	22:30:21.805	API 1-954	API-MS	517484	✓	258	161	517484	0
2109	22:30:21.762	API 1-910	API-MS	517660	✓	258	161	517660	0
2112	22:30:21.794	API 1-943	API-MS	518234	✓	258	161	518234	1
2114	22:30:20.959	API 1-107	API-MS	519393	✓	258	161	519393	0
2115	22:30:20.956	API 1-104	API-MS	519814	✓	258	161	519813	1
2123	22:30:21.803	API 1-951	API-MS	521407	✓	258	161	521407	0
2126	22:30:21.113	API 1-261	API-MS	523742	✓	258	161	523741	0
2127	22:30:21.273	API 1-421	API-MS	524367	✓	258	161	524367	0
2128	22:30:21.819	API 1-967	API-MS	525102	✓	258	161	525102	0
2130	22:30:21.169	API 1-317	API-MS	526719	✓	258	161	526719	0
2131	22:30:21.424	API 1-567	API-MS	526485	✓	258	161	526485	0
2133	22:30:21.848	API 1-996	API-MS	526436	✓	258	161	526436	0
2135	22:30:21.369	API 1-517	API-MS	527623	✓	258	161	527622	0
2137	22:30:21.241	API 1-389	API-MS	528561	✓	258	161	528560	3
2138	22:30:21.227	API 1-375	API-MS	528603	✓	258	161	528602	16
2142	22:30:21.548	API 1-696	API-MS	528942	✓	258	161	528942	0
2143	22:30:21.820	API 1-968	API-MS	528808	✓	258	161	528808	0
2145	22:30:21.687	API 1-836	API-MS	529001	✓	258	161	529000	1
2146	22:30:21.664	API 1-813	API-MS	529448	✓	258	161	529448	0
2147	22:30:21.846	API 1-994	API-MS	530443	✓	258	161	530442	0
2148	22:30:21.820	API 1-969	API-MS	530524	✓	258	161	530523	0
2150	22:30:20.975	API 1-123	API-MS	531403	✓	258	161	531403	17
2151	22:30:21.825	API 1-973	API-MS	530696	✓	258	161	530696	0
2152	22:30:21.683	API 1-832	API-MS	531334	✓	258	161	531334	1
2154	22:30:21.679	API 1-828	API-MS	531583	✓	258	161	531583	1
2155	22:30:21.675	API 1-824	API-MS	531593	✓	258	161	531592	1
2162	22:30:21.686	API 1-835	API-MS	532837	✓	258	161	532836	0
2165	22:30:21.678	API 1-827	API-MS	533331	✓	258	161	533331	0
2166	22:30:21.690	API 1-839	API-MS	533397	✓	258	161	533396	1
2168	22:30:21.766	API 1-915	API-MS	533939	✓	258	161	533939	0
2169	22:30:21.701	API 1-849	API-MS	534063	✓	258	161	534063	0
2170	22:30:21.680	API 1-829	API-MS	534086	✓	258	161	534086	1
2172	22:30:21.842	API 1-990	API-MS	534030	✓	258	161	534029	0
2173	22:30:21.682	API 1-830	API-MS	534197	✓	258	161	534196	0
2176	22:30:21.711	API 1-860	API-MS	534825	✓	258	161	534824	1
2177	22:30:21.565	API 1-713	API-MS	534974	✓	258	161	534974	0
2180	22:30:21.489	API 1-638	API-MS	535637	✓	258	161	535637	0
2184	22:30:21.635	API 1-784	API-MS	536071	✓	258	161	536071	1
2186	22:30:21.491	API 1-640	API-MS	536827	✓	258	161	536827	1
2187	22:30:21.824	API 1-972	API-MS	536560	✓	258	161	536560	0
2190	22:30:21.773	API 1-921	API-MS	537469	✓	258	161	537469	0
2191	22:30:21.706	API 1-855	API-MS	537541	✓	258	161	537541	0
2194	22:30:21.693	API 1-842	API-MS	537922	✓	258	161	537922	0
3	22:28:37.391	API 1-4	UF	1463	✓	2458	122	1462	393