CONFIGURATION GUIDES › INSTALL, START & UPDATE

Applicare Agent's Impact on Application Performance

Applicare 10.0 · Updated October 9, 2024 · singleagent · **Pending technical review**

The Applicare agent imposes very minimal overhead on application performance, with the impact being mostly negligible and almost undetectable. By default, Applicare only instruments user application packages and namespaces, ensuring efficient monitoring without compromising performance.

We advise against installing the Applicare agent on app/web servers if CPU or memory utilization is exceeds 95% in the machine.

Following are few load test results executed at our labs.

Without agent

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	KB/sec	Avg. Bytes
petstore_item	956	7	1	128	6.15	0.00%	47.6/min	3.42	4420.0
category	956	10	2	33	3.72	0.00%	47.6/min	3.28	4232.0
product	956	8	2	239	8.82	0.00%	47.6/min	3.42	4420.0
Add-to-Cart	955	11	2	587	20.34	0.00%	47.6/min	4.14	5348.8
TOTAL	3823	9	1	587	11.76	0.00%	3.2/sec	14.26	4605.0

With agent

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	KB/sec	Avg. Bytes
petstore_item	957	8	2	246	8.77	0.00%	47.1/min	3.39	4420.0
category	957	12	3	60	3.84	0.00%	47.2/min	3.25	4232.0
product	956	9	2	58	3.73	0.00%	47.2/min	3.39	4420.0
Add-to-Cart	956	12	2	202	7.79	0.00%	47.2/min	4.11	5348.8
TOTAL	3826	10	2	246	6.69	0.00%	3.1/sec	14.13	4605.1

Without agent

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	KB/sec	Avg. Bytes
petstore_item	52510	0	0	1883	9.50	0.00%	175.4/sec	757.21	4420.0
category	52510	1	1	137	1.14	0.00%	175.4/sec	725.01	4232.0
product	52510	1	0	67	0.85	0.00%	175.4/sec	757.22	4420.0
Add-to-Cart	52510	1	1	66	1.14	0.00%	175.4/sec	916.34	5348.8
TOTAL	210040	1	0	1883	4.85	0.00%	701.7/sec	3155.70	4605.2

With agent

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	KB/sec	Avg. Bytes
petstore_item	30938	1	1	49	0.97	0.00%	113.5/sec	490.12	4420.0
category	30937	2	2	764	4.45	0.00%	113.5/sec	469.28	4232.0
product	30937	1	1	374	3.15	0.00%	113.5/sec	490.13	4420.0
Add-to-Cart	30937	2	1	65	1.23	0.00%	113.5/sec	593.13	5348.8
TOTAL	123749	2	1	764	2.87	0.00%	454.2/sec	2042.57	4605.2