Hi Adnan,

I wanted to provide you with the results of our investigation.

When reviewing the profiler trace ProfileWithDassRunningHas90SecondsJITTime\_WN0MDWK0000XP\_w3wp\_9208\_20240311-234145.zip

It was noted that the date/time of collection was 03/11/2024 @ 23:41, investigating on our end to see what was taking place on the web app at the time we could see high amounts of

Garbage collection



Note:

• NET Gen 2 Garbage Collection is a cleanup process in the .NET framework that helps manage memory in your applications. (Application code)

Example:

• Imagine your room getting cluttered with old stuff. GC is like a magical cleaner that periodically checks your room and removes items you no longer need. It keeps your room tidy and ensures you don't run out of space.

Having a **High Number of .NET Gen 2 Garbage collections will impact severally the app causing slowness**, we recommend making engagement of your developers as identifying the specific cause often requires analyzing application code, monitoring performance metrics, and using profiling tools to pinpoint memory usage patterns and bottlenecks.

We also reviewed the .etl file

• Located the threads with more CPU consumption then group threads with time, provider name task name etc.

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	10499	2 0440701	Microsoft-Windows-DotNETPuntime	ExceptionCatch	winiStop	251	w3wp.exe (9209)		1
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## The problem here is that the ThreadPool worker thread is spending most of its time in

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	1065	30.052390	Microsoft-Windows-DotNETRuntime	CLRStack	CLRStackWalk	82	w3wp.exe (9208)		1	

• Consistently it seems that the GC is not running it could be because of the Collection.Generic.Dictionary2 which is known to be a not thread

safe. <u>Dictionary<TKey,TValue> Class (System.Collections.Generic)</u> | <u>Microsoft Learn</u>

• In this case application code needs to be review optimize.

• The first step would be to use concurrent instead, then check the type of GC been run. <u>Understanding different GC modes with Concurrency Visualizer - Developer Support</u> (microsoft.com)

Looking into the other files they show

• Thread Pool waiting time as well where there is nothing going on on several threads just waiting on the thread pool:

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• While the few ones working are processing messages

from Microsoft.Azure.SignalR.Connections.Client.Internal.WebSocketsTransport

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Overall, logs and investigation have proven that that the long time is because the **ThreadPool worker** thread, spending most of its time in a waiting status, which seems to be caused because of the GC which in turn seems to be the result of the Generic.Dictionary2 usage and not by the JIT time on the profiler as it was originally thought.

I hope you find this extensive investigation very useful, and it helps clear out any concerns you had on the JIT time, we recommend making engagement of your developers so they can continue the investigation on the required optimization the code needs and help solve the slowness.

If there is anything else we can help you with feel free to let us know, we are always happy to help.

Best Regards. naineer Azure | App Services