Ice 4

1. An Azure function is a serverless compute service which allows users to run and test smaller pieces of code with HTTP triggers. Azure Functions are used because it is cost effective as you only pay for the time it runs, it is scalable as it automatically scales the function based on the workload, and it reduces complexity as it runs in a separate application separate from the main application. (Eastbury, 2024)
2. In-Process Model Function vs Isolated Worker Model

An IN-Process Model Function runs within the same process as the Azure Functions host. It provides low latency and tight integration in the run time. In-Process Model Function performs better but is limited by the hosts runtime. (ggailey777, 2024)

Isolated Worker Model runs in a separate process from Azure Functions host which provides more flexibility and isolation, however it provides a lower latency than the In-Process model function. (ggailey777, 2024)

References

Eastbury, W. (2024) *Azure functions overview*, *Azure Functions Overview | Microsoft Learn*. Available at: <https://learn.microsoft.com/en-us/azure/azure-functions/functions-overview?pivots=programming-language-csharp> (Accessed: 14 October 2024).

ggailey777 (2024) *Differences between in-process and isolate worker process .net azure functions*, *Differences between in-process and isolate worker process .NET Azure Functions | Microsoft Learn*. Available at: <https://learn.microsoft.com/en-us/azure/azure-functions/dotnet-isolated-in-process-differences> (Accessed: 14 October 2024).