**Design challenge (20’)**

In this exercise, you have to design a solution (HLD is enough), using whatever drawing software (Visio, Draw.io, etc.), for the following scenario:

*Contoso has an existing application based on the following high-level architecture:*

*Diagram

Description automatically generated*

* *An Event Producer, used in a broader Big Data scenario, which is not under their control, sends its events at a very high pace (about 1250/sec). Peak times are unpredictable.*
* *An Azure Function is used to handle those events and is notified by Event Hub. It is hosted on an ILB App Service Environment*

*They are suffering from many failures because the function cannot follow the pace. They tried to fine tune the auto scaling setting of the isolated plan the function runs on, but with no luck. They can’t afford to pay permanently for hundreds of instances. Contoso had initially underestimated the time required by the isolated plan to scale dynamically.*

Craft a new design proposal that could alleviate all the problems encountered by Contoso.

Note: for sake of time, do not dive too deep in the design