**Design challenge Global APIM (45’)**

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 is producing identifiers used globally by all retail players and online shops. Each identifier corresponds to a product for which a corresponding bar code is generated. Retail players in the entire world, request their identifiers to Contoso through API channels. You must design an Azure-hosted solution that allows Contoso customers to get their identifiers.*

You must respect the following requirements

* APIs must be protected by a WAF
* You must geo-distribute APIs to the US, Europe and Asia
* Each customer should automatically be routed to the closest API
* Each backend service involved in writing/querying the data store should talk to the closest possible data store, whether for writing or querying.
* If one region goes down, or a backend of a given region is down, the calls should be redirected to the remaining regions

Your HLD, must represent:

* All the components and their interactions
* The flows