**Using ACIs with Logic Apps (60’)**

In this exercise, you are required to build what has just been demoed, and illustrated in the below diagram:

Diagram

Description automatically generated

Contoso users upload blobs into a Storage Account. Handling those blobs requires a lot of business logic. Hence, the solution architect (SA) decided to use custom code. Because the number of blobs is variable and the process is asynchronous, the SA found that ACIs were a good idea because they can be provisioned on the fly and destroyed right after the job completes. He also wants a PUSH model, hence the use of Event Grid.

**You must respect the following constraint**

* Azure AD authentication must be used all the way, except for the ACI to pull the image from the ACR (not supported)

**To achieve this, you’ll need the following components:**

* Azure Storage Account - Blobs
* Azure Event Grid System Topics+Subscription
* Azure Logic Apps
* Azure Container Instances
* Azure Container Registry (and leverage the Quick Task feature)
* Azure Managed Identity
* Write a console program to download the blob

For sake of time, you are NOT required to perform a full orchestration (ie: destroy the ACI once the job completes).

Tips:

* Use 2020-04-08 as the x-ms-version HTTP request header in your console program when trying to download the blob
* Use AzureServiceTokenProvider in your console program

Interesting link: <https://docs.microsoft.com/en-us/azure/storage/common/storage-auth-aad-app>