

The diagram illustrates a multi-layered architecture with three main layers: Storage Layer, Processing Layer (Azure Services), and Data Input Layer. The layers are separated by horizontal dashed lines. On the left, a vertical line separates the layers from the 'Activities >>' section. On the right, a horizontal arrow points from the 'Processing Layer' towards a 'Python (Runtime)' box.

**Storage Layer:** Contains 'Azure Blob Storage'.

**Processing Layer (Azure Services):** Contains 'Custom Vision', 'Video Analyzer', 'Face API', and 'Form Recognizer'.

**Data Input Layer:** Contains 'Manifest Table', 'Video (Kiosk)', 'ID Card', 'Boarding Pass', and 'Baggage Images'.

**Activities >>:** This section shows the flow of data and services between the layers:

- A red arrow points from 'Manifest Table' to 'Azure Blob Storage'.
- A green arrow points from 'Azure Blob Storage' to 'Custom Vision'.
- A green arrow points from 'Azure Blob Storage' to 'Face API'.
- A green arrow points from 'Azure Blob Storage' to 'Form Recognizer'.
- An orange arrow points from 'Video (Kiosk)' to 'Custom Vision'.
- A purple arrow points from 'ID Card' to 'Face API'.
- A blue arrow points from 'Boarding Pass' to 'Form Recognizer'.
- A yellow arrow points from 'Baggage Images' to 'Form Recognizer'.

A horizontal arrow on the right points from the 'Processing Layer' towards a 'Python (Runtime)' box.

- Identify the services you will be using and categorize them into storage, processing, input, output, execution layers
- Select all the activities your application will perform
- Now you can create a graph where on X axis you can have all activities and on Y axis you can have all the layers in their proper order
- Choice of keeping content on X and Y axis is your choice
- Now display all the content you identify in their specific layer

- We have several activities and components in our project as Manifest Table, Id card, Video, boarding pass and baggage images
- We are using Azure Vision services as Custom Vision, Form Recognizer, Face API, Video analyzer
- We store all of our data at the Azure Blob Storage
- Based on the above collections, we create 3 layers as storage, processing and input for our architecture.
- We place proper content to Blob storage to the storage layer
- We place all the Azure services into the Processing layer
- We place all the inputs at the data input place.
- Now we need to connect these components together based on their interaction inside the project.

Our objective is that looking at the architecture diagram, the reader should be able to understand various services and components that interact in our project.