

PIZZA HOUSE CLOUD DATA PLATFORM

Microsoft Azure Resources Used

1. **Azure Event Hub:** It is the big data streaming service of Azure.
 - a. **Azure Hub for Online Ordering:** It is used as a stream ingestion service to consume billions of events per day
 - b. **Azure Hub for POS:** It is also used to get events from POS system every 15 minutes. The output is then stored as files on **Azure Data Lake Storage Gen2**.
2. **Azure Stream Analytics:** Azure Stream Analytics can run perpetual queries against an unbounded stream of data. It is used to consume streams of data from **Event Hub**. The data can be queried and transformed and can be directly used to visualize and analyze using **PowerBI**. The real time stream data can also be stored on **Azure SQL DB/DW** for long-term storage or batch analysis. Tools like Azure Machine Learning can be utilized through Azure Stream Analytics.
3. **Azure SQL DB/DW:** Data stored in ADLS as files can be processed as Batch using Azure data factory and can be stored in SQL DB/DW further analysis using PowerBI.