**YARP ->** API Gateway

**BackgroundService** -> to run task in background using asp.net core

**System.Threading.Channels.Channel** -> internal messaging for component communication in asp.net core project

**Redis Streaming** -> Pub/Sub messaging

gRPC, gRPC Stream

HttpClient with Polly

<https://www.weatherapi.com> API to fetch weather data

**Apache Pulsar** -> Message Broker

Running it as docker

docker run --name pulsar -p 6650:6650 -p 8080:8080 -d apachepulsar/pulsar bin/pulsar standalone

**CorrelationId** -> to trace request (System.Diagnostics.Activity)

**Portainer -> Dcoker container**

**C# Key Features**:

IAsyncEnumerable

Interlocked.Exchange

BlockingCollection