



Azure Event Hubs

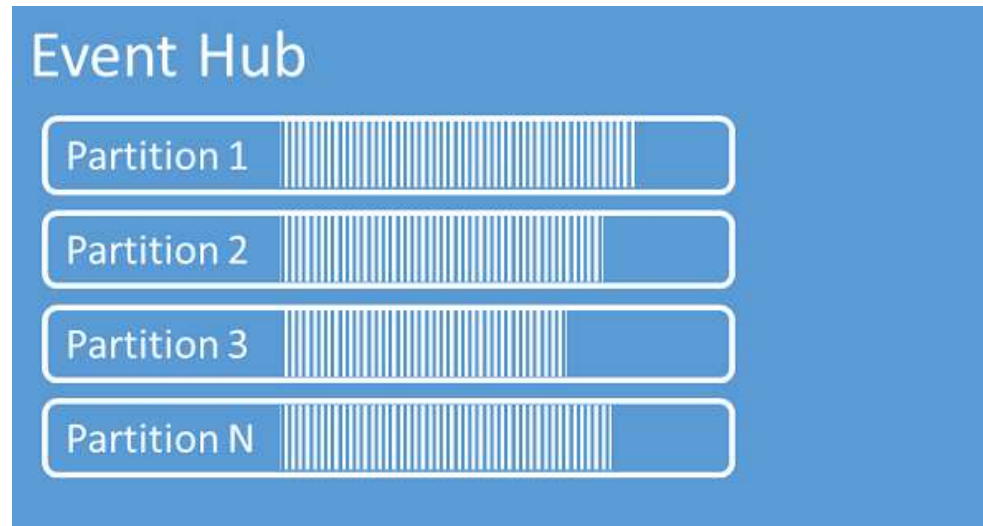
Azure Event Hubs

- A big data streaming platform and event ingestion service
- It can receive and process millions of events per second
- Data sent to an event hub can be transformed and stored by using
 - Real-time analytics provider or
 - Batching/storage adapters.



Partitions

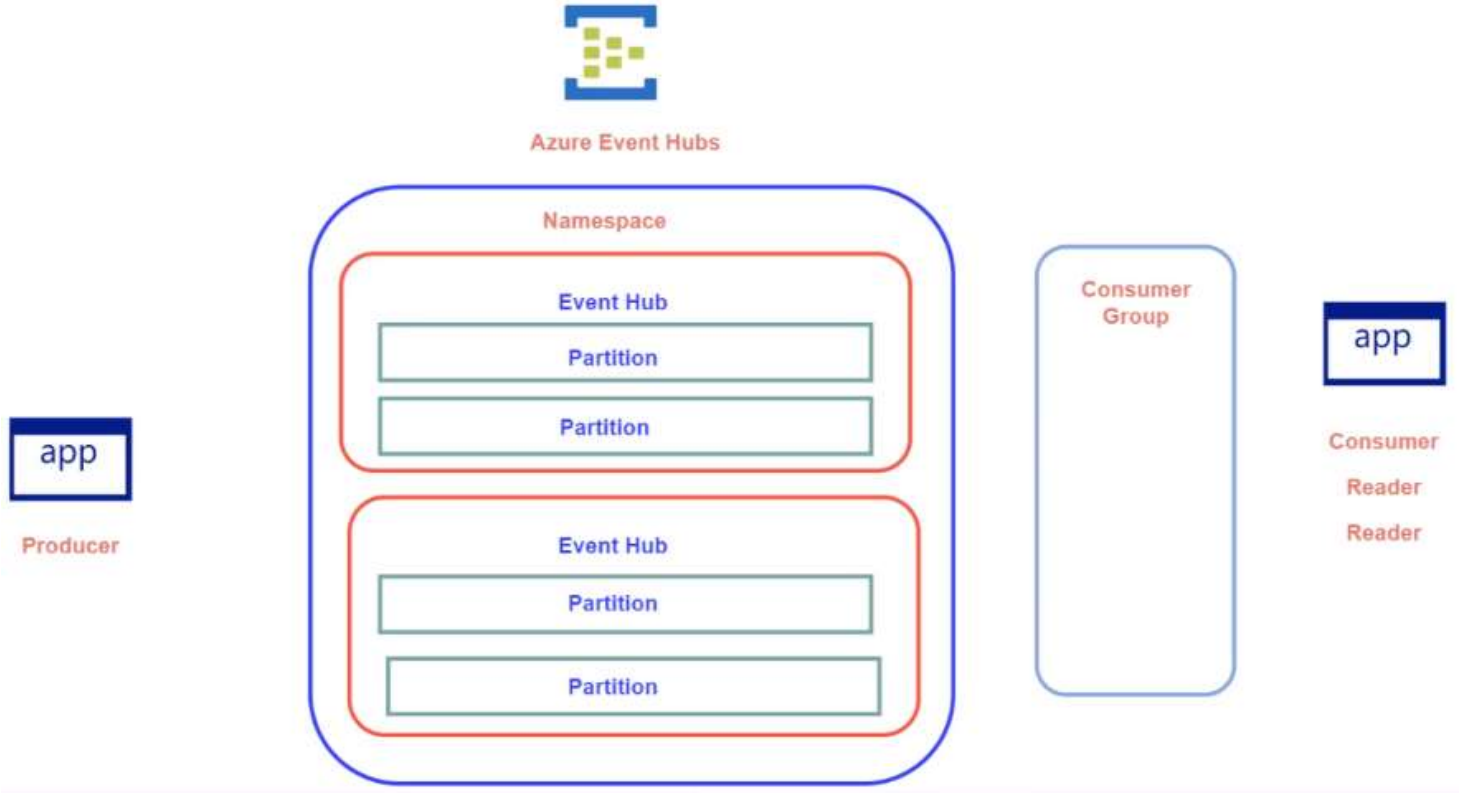
- Event Hubs organizes sequences of events sent to an event hub into one or more partitions
- As newer events arrive, they're added to the end of this sequence.



Consumer groups

- Allow multiple consumers to have distinct views of an event stream
 - (i.e. read at their own pace)
- If another consumer would like to subscribe to the same stream but process the data differently

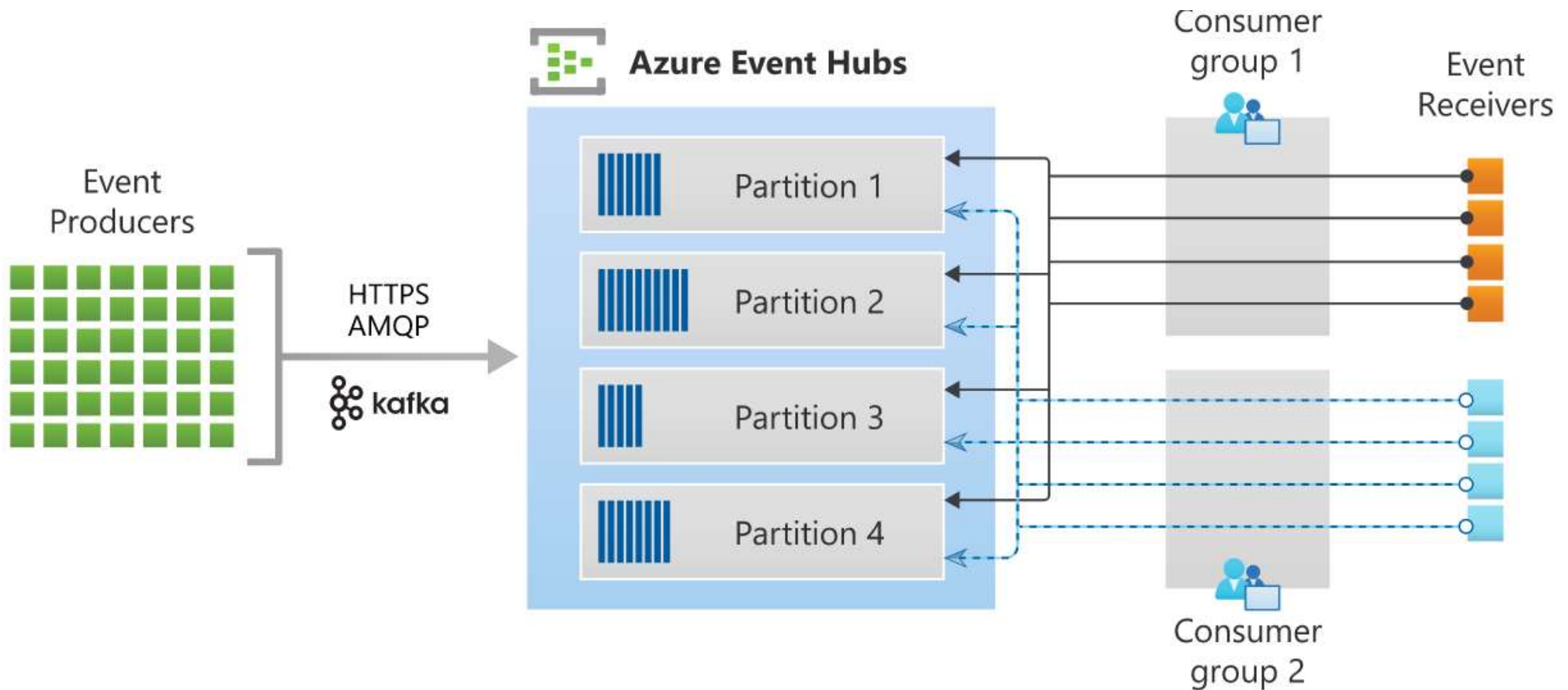
Architecture



Hands-on

- Create Event Hub Namespace and Event Hub
- Generate Shared Access Policy in Event Hub
- Use .Net programs to
 - Produce event and send to event hub
 - Consume events
- Refer:
 - `eventhubs-send+--+Sendtopartition.zip`
 - `eventhub-receive+--+Showing+partition+key.zip`
- Modify source code to specify the event hub details

Key architecture components



Assignment: Reading from an Offset

- Refer
 - `eventhub-receive+--ReadOffset.zip`

Assignment: Azure Event Hub - Event Processor

- Refer
 - EventHub-Processor.zip

Thanks