

Setting up an Event Hub in Azure



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Module Outline



Set up an Event Hub in the Azure portal

**Understand throughput units
and partitions**

Calculate the costs



Demo



Create an Event Hub in Azure



Understand Throughput Units

Event Hub Namespace

Throughput unit

Throughput unit

1 MB/s or 1000 events/s ingress

2 MB/s or 2000 events/s egress

Event Hub

Event
Hub

Event
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Event
Hub



You have to pay for
throughput units



On a standard Event Hub a
throughput unit costs
\$0.03 per hour



Understand Throughput Units

Event Hub Namespace

Throughput unit

Event Hub

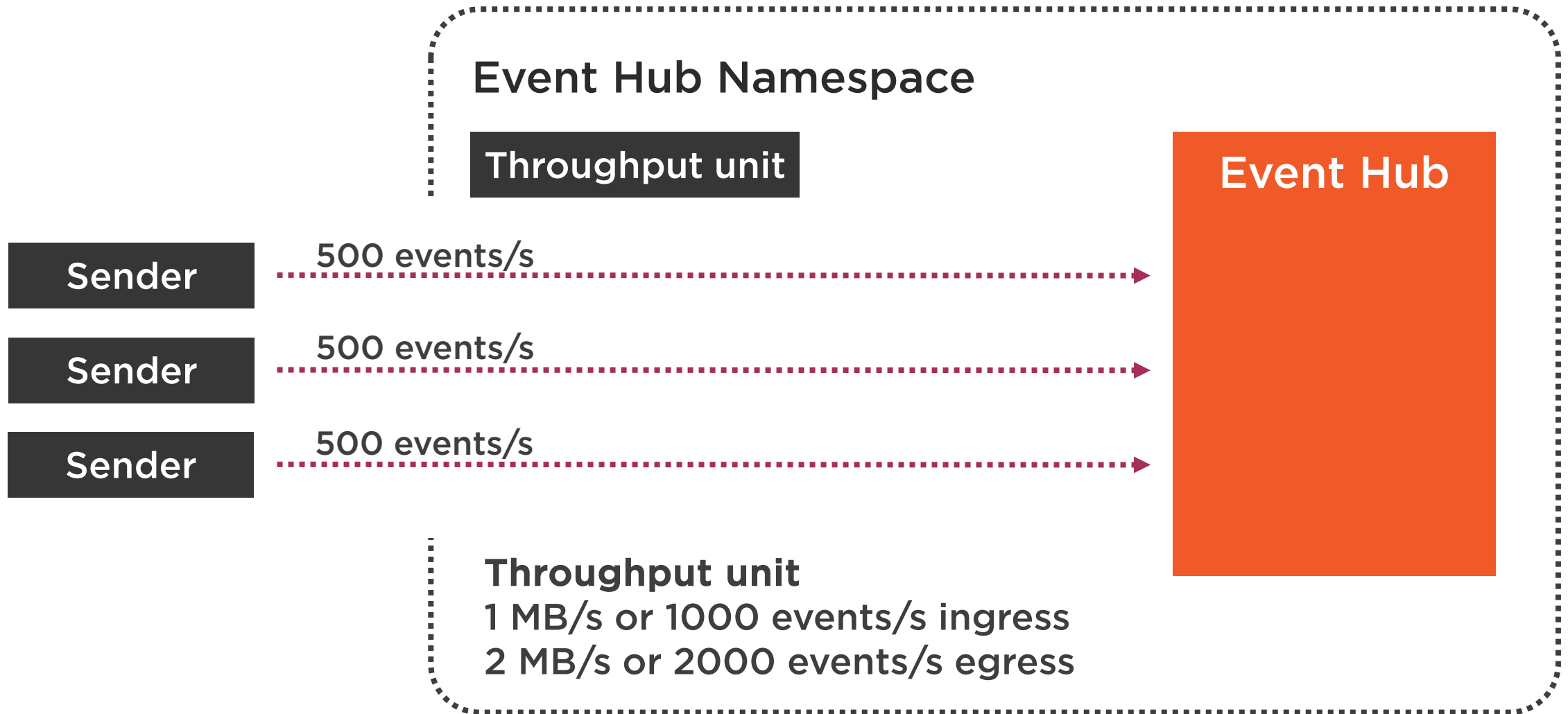
Throughput unit

1 MB/s or 1000 events/s ingress

2 MB/s or 2000 events/s egress



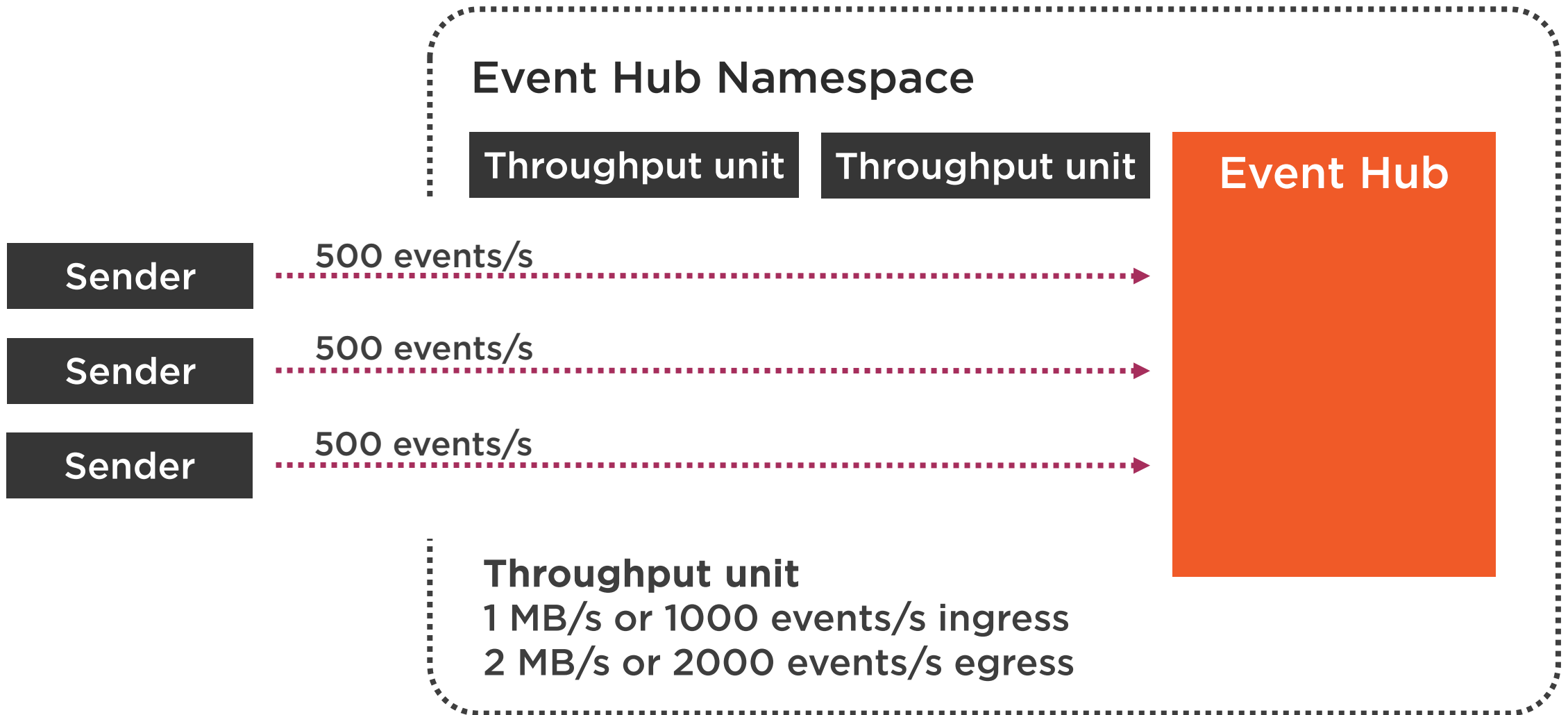
Throttling and Auto Inflate



Senders will be throttled



Throttling and Auto Inflate



Demo

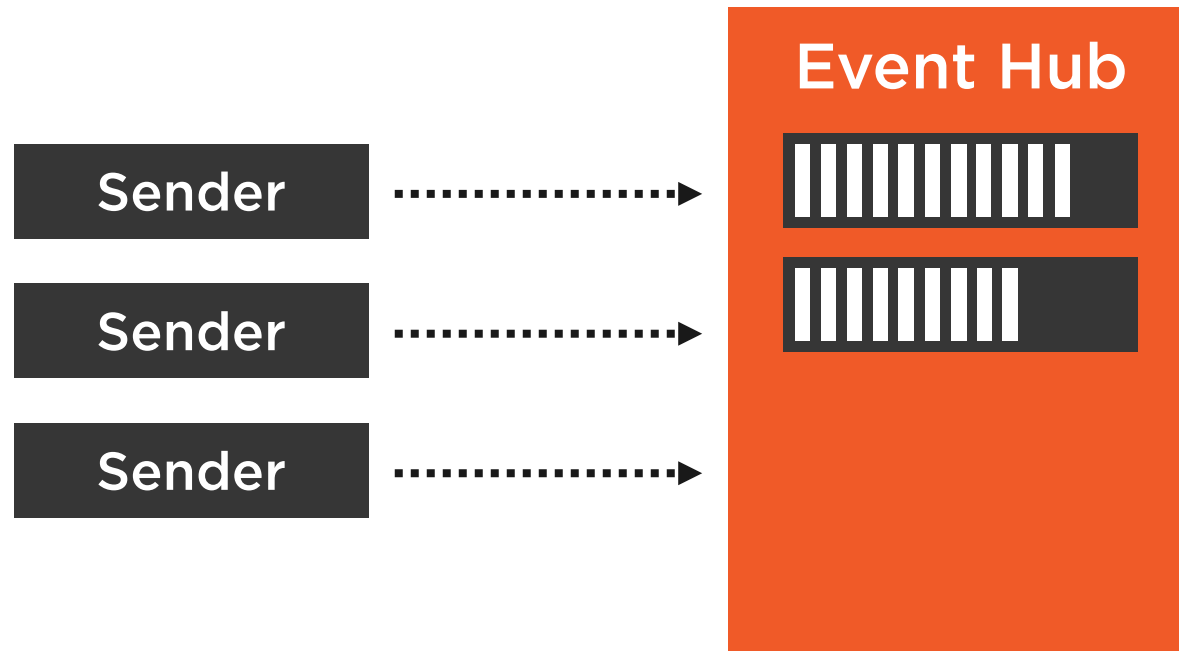


Increase throughput units automatically

Increase throughput units manually



Plan the Partitions



You pay for throughput units,
but not for partitions



Beside 1 MB/s ingress
and 2 MB/s egress, a single
throughput unit includes
84GB storage per day

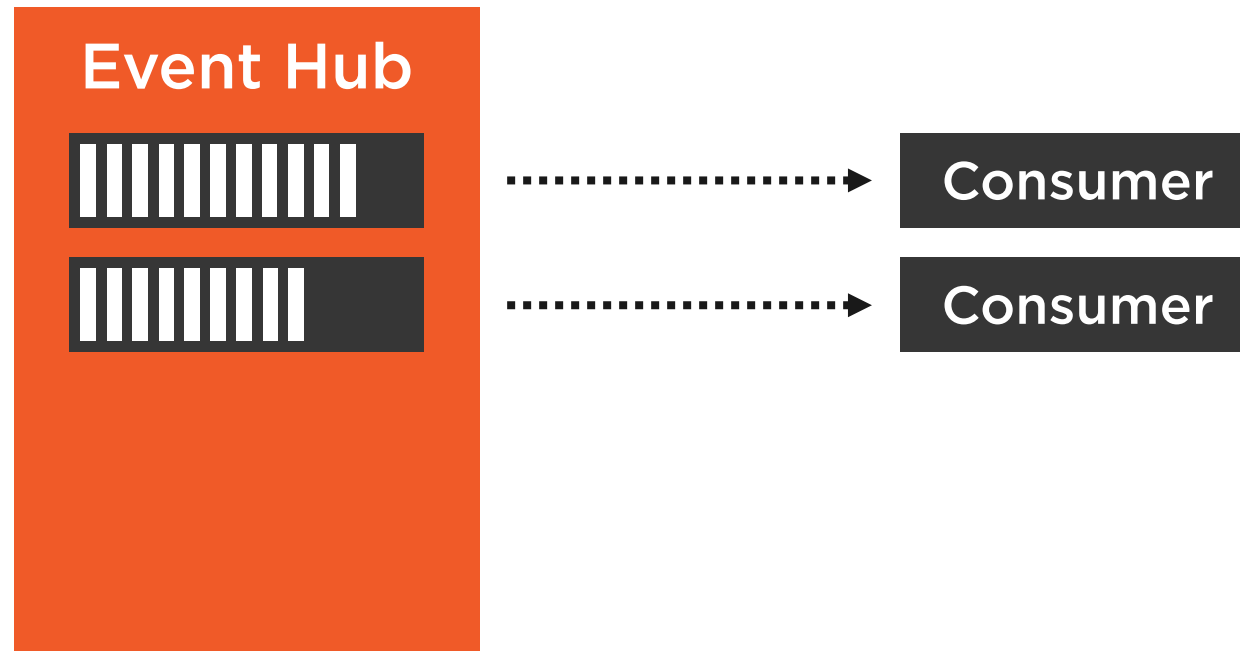


“The number of partitions in an Event Hub directly relates to the number of concurrent readers you expect to have”

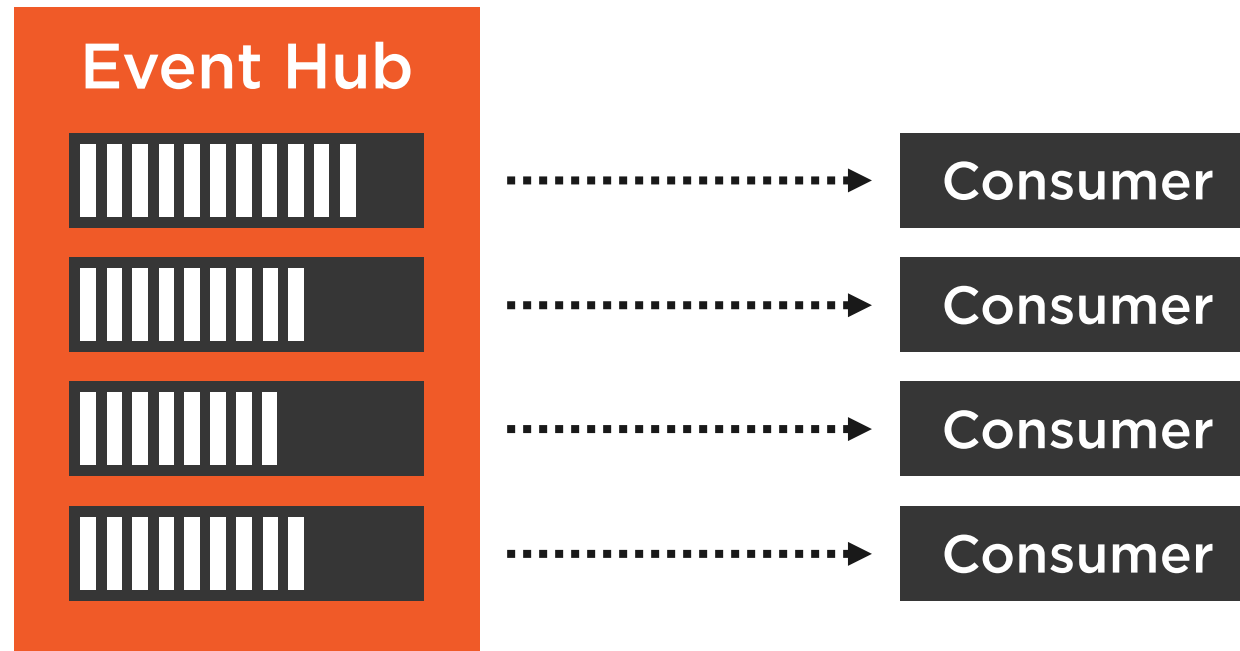
Tooltip for partition count in the Azure portal



Plan the Partitions



Plan the Partitions



After your Event Hub was created, you can't change the number of partitions anymore



Plan the Partitions

Event Hub

Partition

Partition

Partition

Partition

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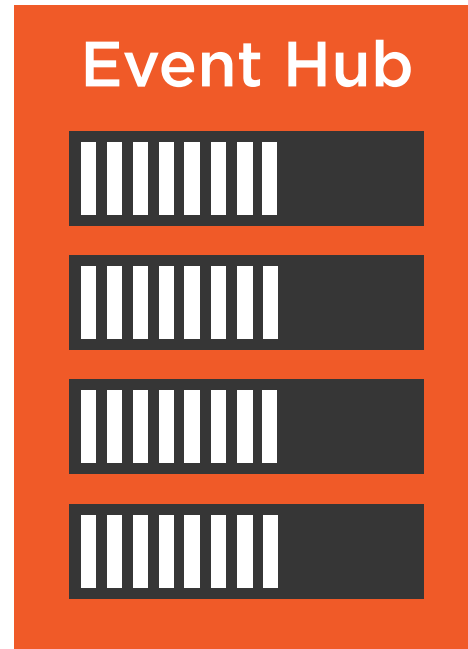


Plan the Partitions

Event Hub



Plan the Partitions



Set the number of your
partitions to the anticipated
number of concurrent
consumers



Calculate the Costs

Basic

Standard

Dedicated



Demo



Switch between basic and standard

Calculate the costs for your event hub



Summary



Event Hub is part of a namespace

Namespace has throughput units

- 1TU = 1MB/s ingress, 2MB/s egress

Event Hub has partitions

- Set the number to the expected number of concurrent readers