

## Create event hub

The screenshot shows the Microsoft Azure Marketplace interface. At the top, there's a search bar with 'event hubs' entered. Below the search bar, there are filters for Pricing, Operating System, Publisher Type, Product Type, and Publisher name, all set to 'All'. The search results show 1 to 19 results for 'event hubs'. The first result is 'Event Hubs' by Microsoft, which is highlighted. Other results include 'Event Hubs Cluster', 'Azure Event Hubs solution for Sentinel', 'Lag Metrics for Event Hubs', 'Omnitech Unified Commerce Cloud - Event', and 'Service Connector App View'. Each result card shows the publisher, a brief description, and a 'Create' button.

The screenshot shows the 'Create Namespace' form in the Microsoft Azure Marketplace. The form is titled 'Create Namespace' and has a sub-header 'Event Hubs'. It includes fields for 'Subscription' (Manohar Subscription) and 'Resource group' (test-grp). Below these fields is a section for 'Instance Details'. The 'Instance Details' section includes a description: 'Enter required settings for this namespace, including a price tier and configuring the number of units (capacity)'. It has fields for 'Namespace name' (eventhub10010), 'Location' (Central India), 'Pricing tier' (Standard (~\$22 USD per TU per Month)), 'Throughput Units' (1), and 'Enable Auto-Inflate' (unchecked). At the bottom of the form are three buttons: 'Review + create', '< Previous', and 'Next: Advanced >'.

Home > Marketplace >

Create Namespace

Event Hubs

Validation succeeded.

Basics

Namespace name	eventhub10010
Subscription	Manohar Subscription
Resource group	test-grp
Location	Central India
Pricing tier	Standard
Throughput Units	1
Availability Zones (Zone Redundancy)	Enabled
Auto-Inflate Maximum Throughput Units	Disabled

Networking

Connectivity method	Public access
---------------------	---------------

Security

Minimum TLS version	1.2
Local Authentication	Enabled

Create

< Previous

Next >

Microsoft Azure

Search resources, services, and docs (G+/I)

Copilot

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CLOUDHUB.BIZ (MAHESHKUMA...

Home >

eventhub10010 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : eventhub10010  
Subscription : Manohar Subscription  
Resource group : test-grp

Start time : 2/13/2025, 1:01:21 AM  
Correlation ID : e4363ef4-01ab-477e-8d3d-20aba91d8d11

> Deployment details

< Next steps

Go to resource

Cost management

Get notified to stay within your budget and prevent unexpected charges on your bill.  
Set up cost alerts >

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Microsoft Azure

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Home >

eventhub10010

Event Hubs Namespace

Search

+ Event Hub

Delete

Refresh

Give feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Data Explorer

Events

Settings

Entities

Monitoring

Automation

Help

You can start generating test data or inspect data that has already been sent with the new Azure Event Hubs Data Explorer. Click on this message to try the feature!

Essentials

Resource group (move) : test-grp

Status : Active

Location : Central India

Subscription (move) : Manohar Subscription

Subscription ID : 32aeb345-c46e-4708-be87-491dbf8d1da9

Host name : eventhub10010.servicebus.windows.net

Created : Thursday, February 13, 2025 at 01:01:27 GMT+5:30

Updated : Thursday, February 13, 2025 at 01:01:58 GMT+5:30

Zone Redundancy : Enabled

Pricing tier : Standard

Throughput Units : 1 unit

Auto-inflate throughput ... : Disabled

Local Authentication : Enabled

Tags (edit) : Add tags

JSON View

NAMESPACE CONTENTS

0 EVENT HUBS

KAFKA SURFACE

ENABLED

ZONE REDUNDANCY

ENABLED

Show data for the last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

Requests

Messages

Throughput

Microsoft Azure

Search resources, services, and docs (G+/)

Home > eventhub10010 >

Create Event Hub

Event Hubs

Basics

Capture

Review + create

Event Hub Details

Enter required settings for this event hub, including partition count and message retention.

Name \*

apphub

✓

Partition count

2

Retention

Configure retention settings for this Event Hub. [Learn more](#)

Cleanup policy

Delete

▼

Retention time (hrs) \*

24

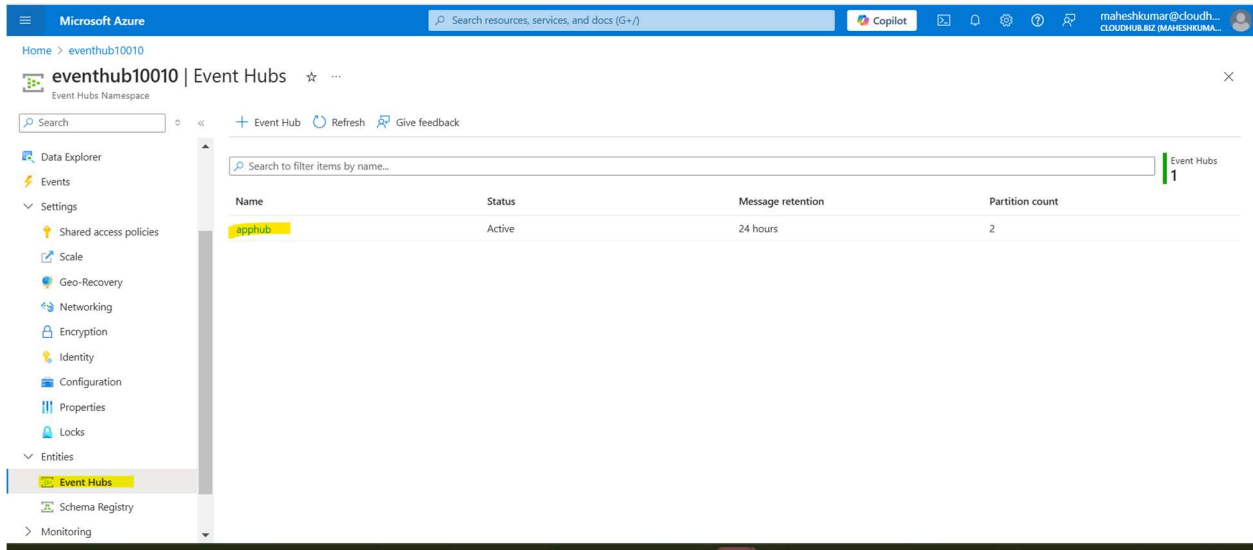
✓

min. 1 hour, max. 168 hours (7days)

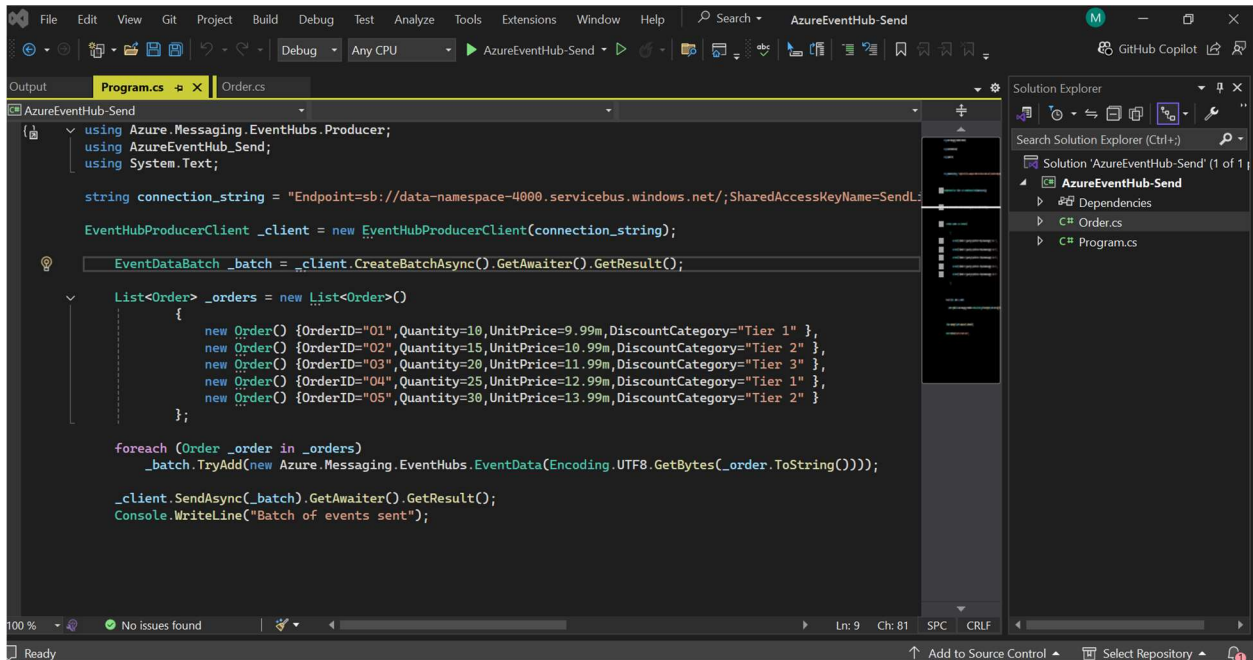
Review + create

< Previous

Next: Capture >



I have a .net program which we can use to send data onto the event hub



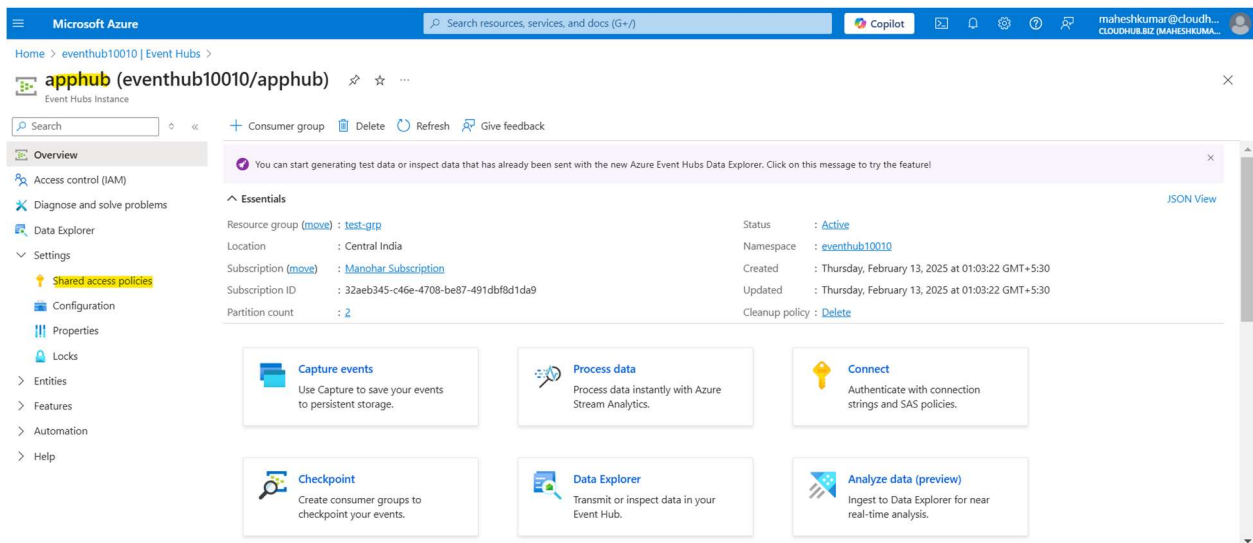
I am sending OrderID, Quantity, UnitPrice, DiscountCategory data onto the event hub

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Net.NetworkInformation;
using System.Text;
using System.Text.Json;
using System.Threading.Tasks;

namespace AzureEventHub_Send
{
    8 references
    class Order
    {
        5 references
        public string OrderID { get; set; }
        5 references
        public int Quantity { get; set; }
        5 references
        public decimal UnitPrice { get; set; }
        5 references
        public string DiscountCategory { get; set; }

        1 reference
        public override string ToString()
        {
            return JsonSerializer.Serialize(this);
        }
    }
}
```

I will create a shared access policy



Add policy

Microsoft Azure

Search resources, services, and docs (G+/I)

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Home > eventhub10010 | Event Hubs > apphub (eventhub10010/apphub)

apphub (eventhub10010/apphub) | Shared access policies ☆ ...

Event Hubs Instance

Search

Overview

Access control (IAM)

Diagnose and solve problems

Data Explorer

Settings

Shared access policies

Configuration

Properties

Locks

Entities

Features

Automation

Help

Search to filter items...

Policy	Claims
no policies have been set up yet.	

I will create a send policy

Microsoft Azure

Search resources, services, and docs (G+/I)

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Home > eventhub10010 | Event Hubs > apphub (eventhub10010/apphub)

apphub (eventhub10010/apphub) | Shared access policies ☆ ...

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Properties

Locks

Entities

Consumer groups

Features

Automation

Help

Search to filter items...

Policy	Claims
no policies have been set up yet.	

Add SAS Policy

Event Hubs

Policy name \*

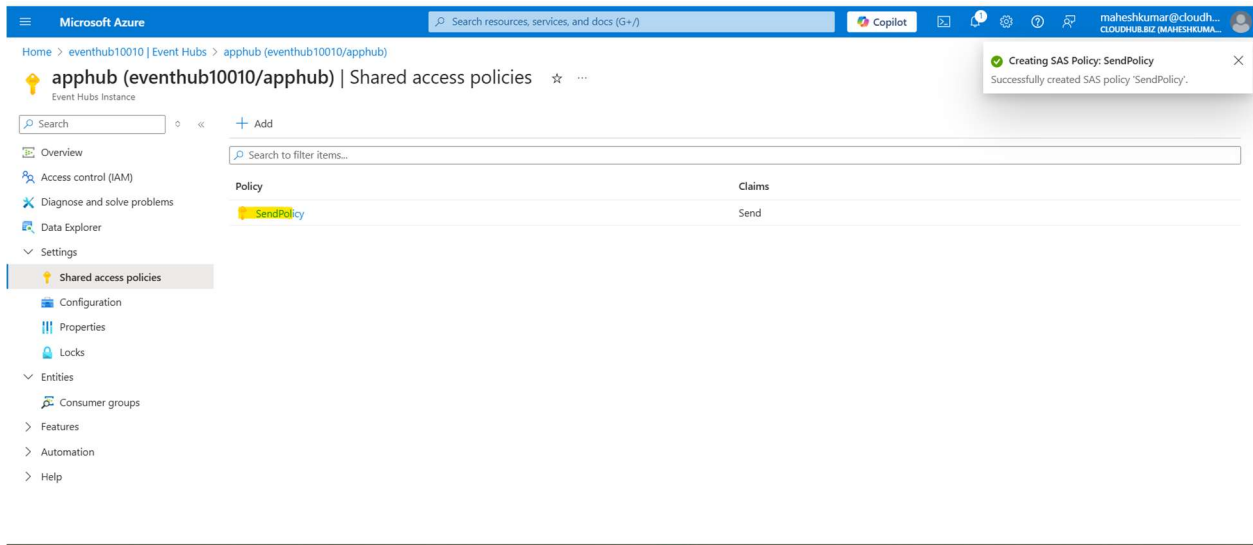
SendPolicy ✓

☐ Manage

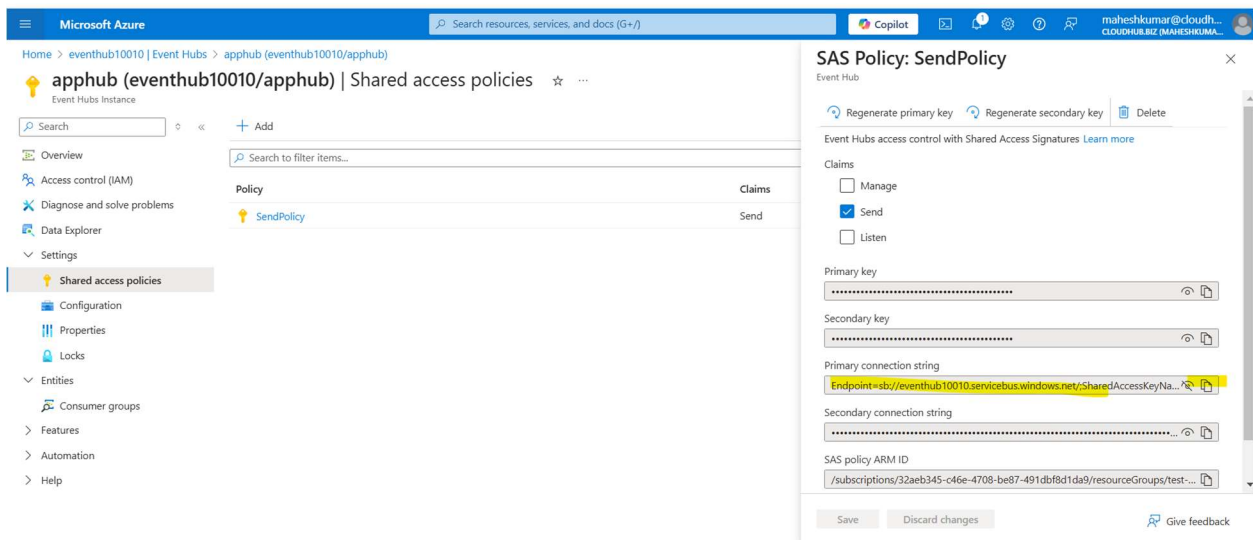
☒ Send

☐ Listen

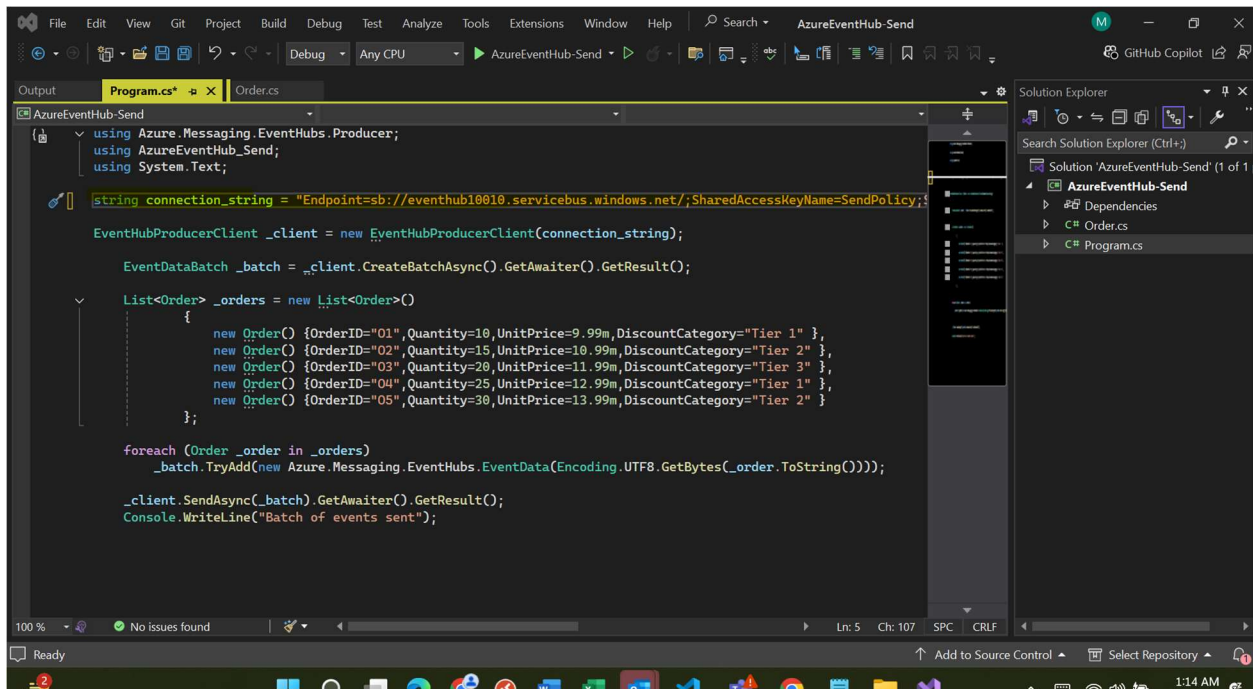
Create



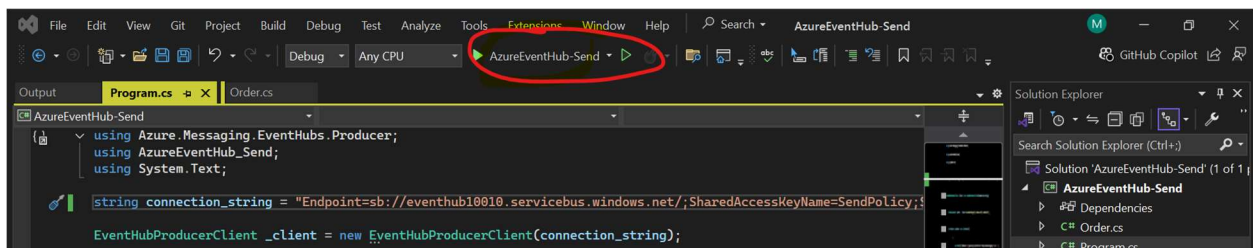
I will now copy the connection string from the policy and paste it in my .net program



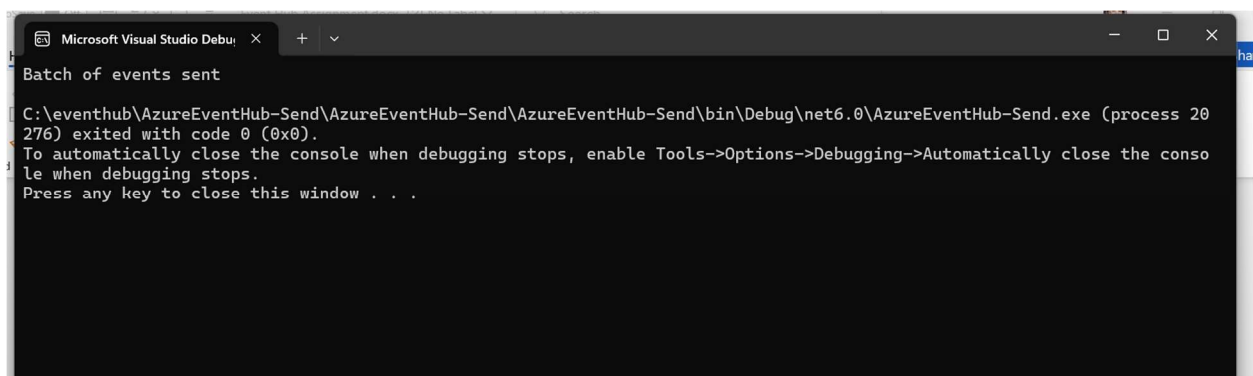




I will run the program

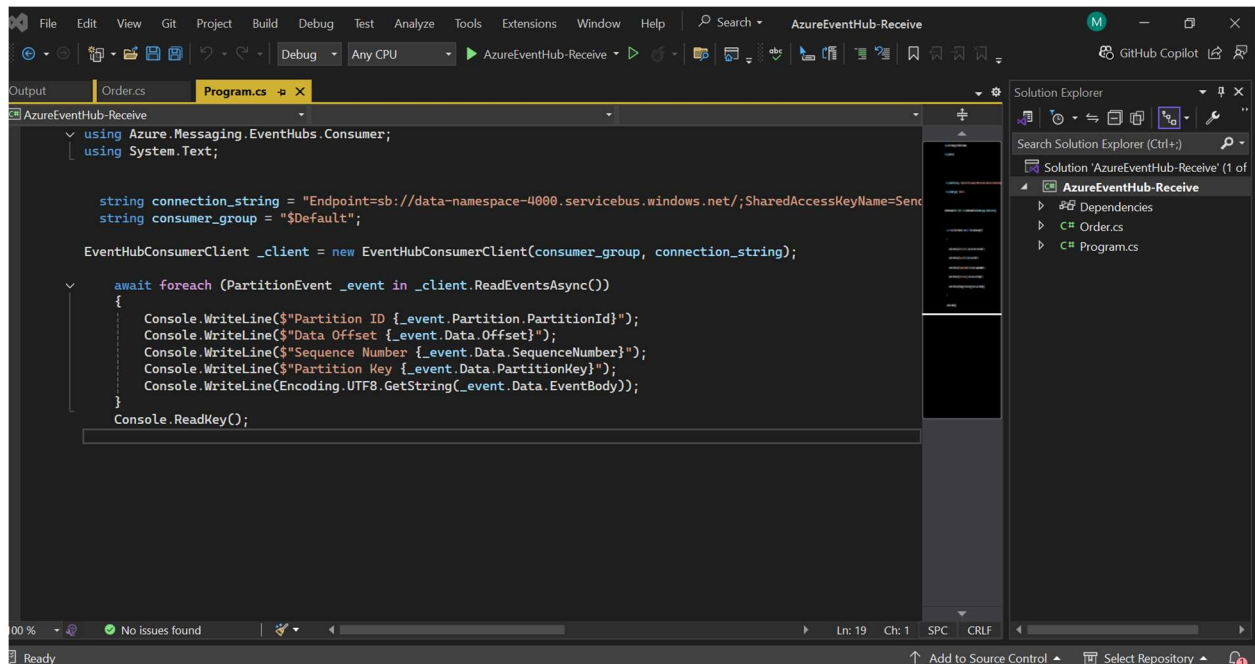


After waiting few seconds I have got a msg that batch of event sent.



I will now open the another .net program which will receive the data from the event hub





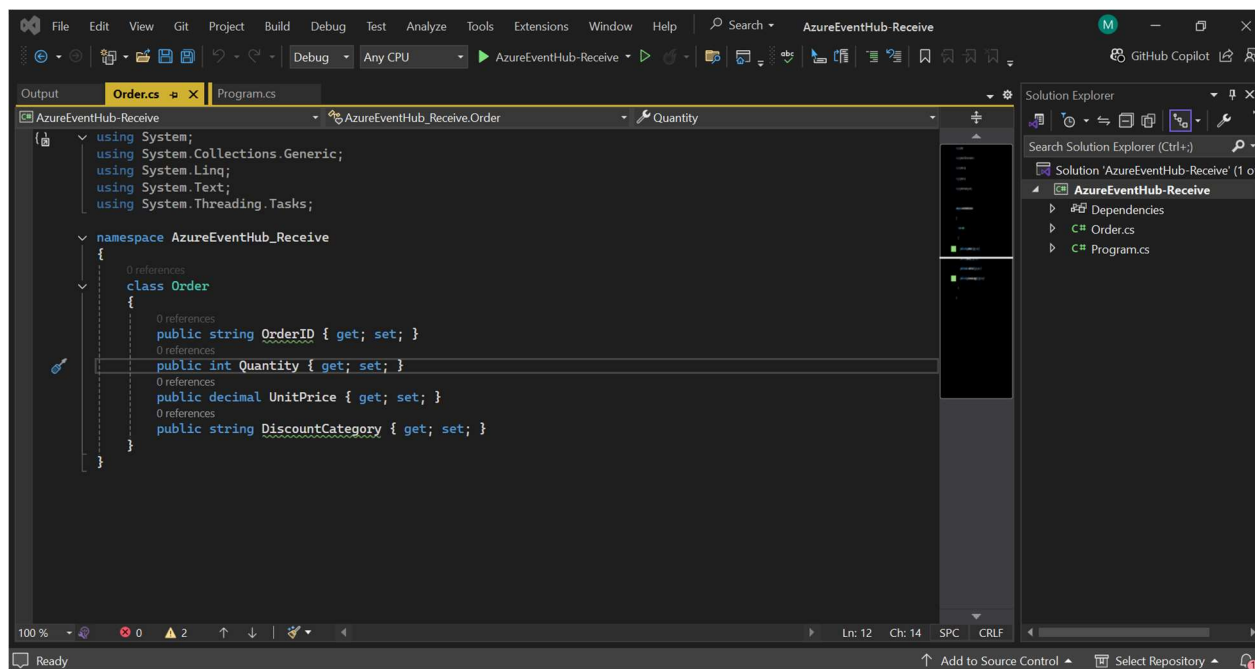
```
using Azure.Messaging.EventHubs.Consumer;
using System.Text;

string connection_string = "Endpoint=sb://data-namespace-4000.servicebus.windows.net;/SharedAccessKeyName=Send";
string consumer_group = "$Default";

EventHubConsumerClient _client = new EventHubConsumerClient(consumer_group, connection_string);

await foreach (PartitionEvent _event in _client.ReadEventsAsync())
{
    Console.WriteLine($"Partition ID {_event.Partition.PartitionId}");
    Console.WriteLine($"Data Offset {_event.Data.Offset}");
    Console.WriteLine($"Sequence Number {_event.Data.SequenceNumber}");
    Console.WriteLine($"Partition Key {_event.Data.PartitionKey}");
    Console.WriteLine(Encoding.UTF8.GetString(_event.Data.EventBody));
}

Console.ReadKey();
```



```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace AzureEventHub_Receive
{
    class Order
    {
        public string OrderID { get; set; }
        public int Quantity { get; set; }
        public decimal UnitPrice { get; set; }
        public string DiscountCategory { get; set; }
    }
}
```

I will add another shared access policy

Microsoft Azure

Search resources, services, and docs (G+/I)

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Home > eventhub10010 | Event Hubs > apphub (eventhub10010/apphub)

### apphub (eventhub10010/apphub) | Shared access policies

Event Hubs Instance

Search

Overview

Access control (IAM)

Diagnose and solve problems

Data Explorer

Settings

- Shared access policies
- Configuration
- Properties
- Locks

Entities

- Consumer groups

Features

Automation

Help

Search to filter items...

Policy	Claims
SendPolicy	Send

#### Add SAS Policy

Event Hubs

Policy name \*

ListenPolicy

☐ Manage

☐ Send

☒ Listen

Create

I will again copy the connection string from the listen policy and paste in my .net program

Microsoft Azure

Home > eventhub10010 | Event Hubs > apphub (eventhub10010/apphub)

apphub (eventhub10010/apphub) | Shared access policies

Search

Overview

Access control (IAM)

Diagnose and solve problems

Data Explorer

Settings

Shared access policies

Configuration

Properties

Locks

Entities

Consumer groups

Features

Automation

Help

Policy

SendPolicy

ListenPolicy

Claims

Send

Listen

SAS Policy: ListenPolicy

Event Hub

Regenerate primary key

Regenerate secondary key

Delete

Event Hubs access control with Shared Access Signatures [Learn more](#)

Claims

Manage

Send

Listen

Primary key

Secondary key

Primary connection string

Endpoint=sb://eventhub10010.servicebus.windows.net/;SharedAccessKeyName=ListenPolicy;SASPolicy=Listen

Secondary connection string

SAS policy ARM ID

/subscriptions/32aeb345-c46e-4708-be87-491dbf8d1da9/resourceGroups/test-...

Save

Discard changes

Give feedback

File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help

Search

AzureEventHub-Receive

Output

Order.cs

Program.cs

AzureEventHub-Receive

```
using Azure.Messaging.EventHubs.Consumer;
using System.Text;

string connection_string = "Endpoint=sb://eventhub10010.servicebus.windows.net/;SharedAccessKeyName=ListenPolicy;SASPolicy=Listen";
string consumer_group = "$Default";

EventHubConsumerClient _client = new EventHubConsumerClient(consumer_group, connection_string);

await foreach (PartitionEvent _event in _client.ReadEventsAsync())
{
    Console.WriteLine($"Partition ID {_event.Partition.PartitionId}");
    Console.WriteLine($"Data Offset {_event.Data.Offset}");
    Console.WriteLine($"Sequence Number {_event.Data.SequenceNumber}");
    Console.WriteLine($"Partition Key {_event.Data.PartitionKey}");
    Console.WriteLine(Encoding.UTF8.GetString(_event.Data.EventBody));
}

Console.ReadKey();
```

Solution Explorer

Search Solution Explorer (Ctrl+)

Solution 'AzureEventHub-Receive' (1 of 1)

AzureEventHub-Receive

# Dependencies

C# Order.cs

C# Program.cs

100 %

No issues found

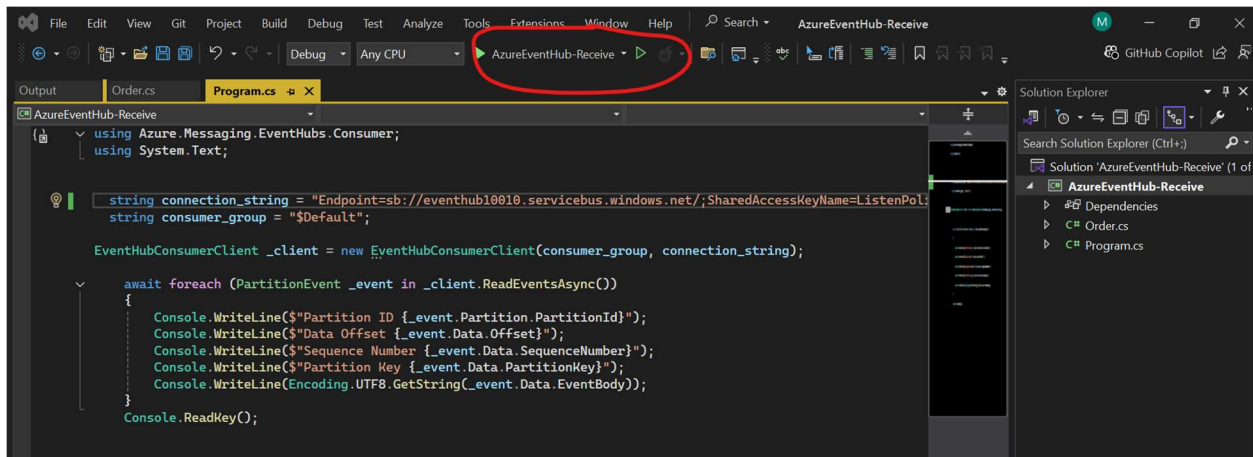
Ln: 5 Ch: 194 SPC CRLF

Item(s) Saved

Add to Source Control

Select Repository

I will now run my program



After waiting for few seconds I have receive the data from the event hub which I have sent before on to the event hub.

