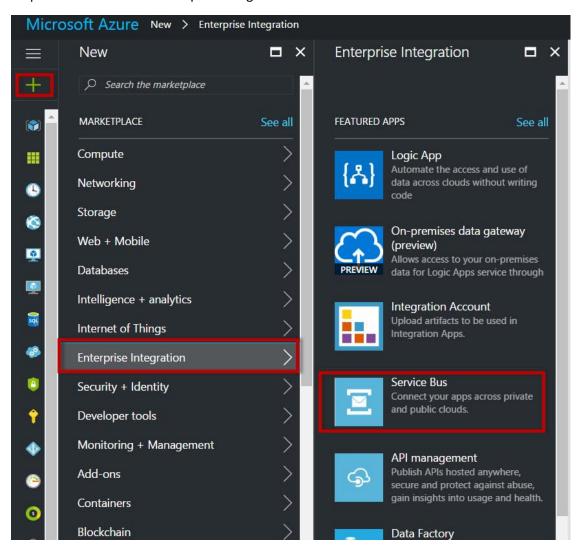
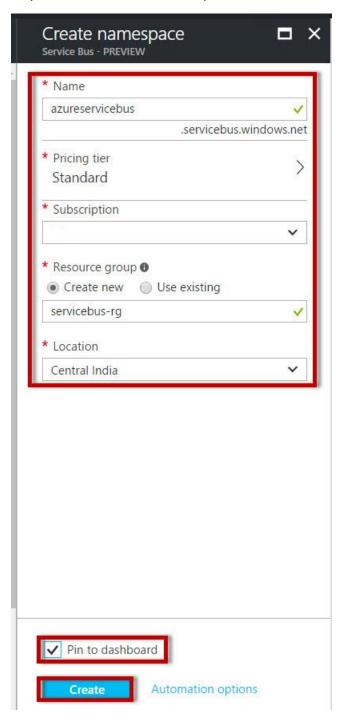
Azure Service Bus - Queue

Step 1: Navigate to Azure Portal.

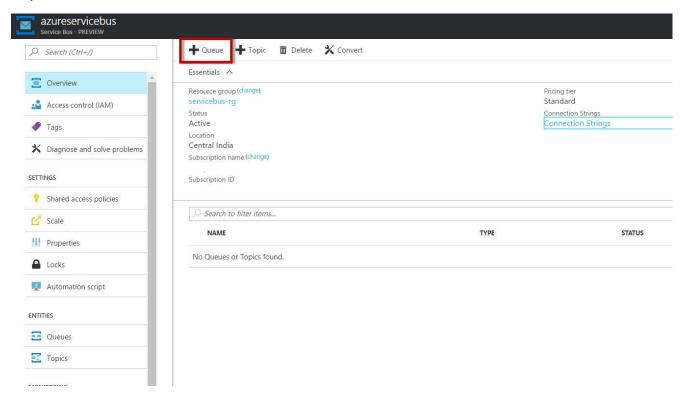
Step 2: Click on +New -> Enterprise Integration -> Service Bus



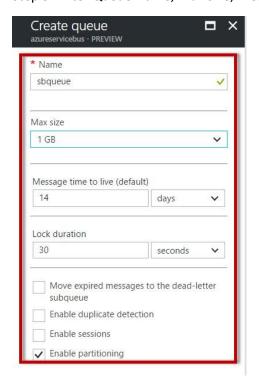
Step 3: Enter Service Bus Namespace Name, Choose Pricing Tier, Resource Group, Location



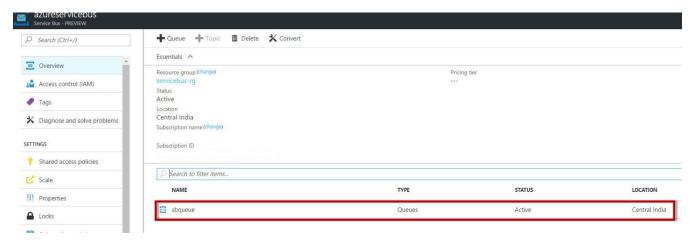
Step 4: Click on + Queue to create new Queue



Step 5: Enter Queue Name, Max Size, Message time to live, Lock duration, etc.

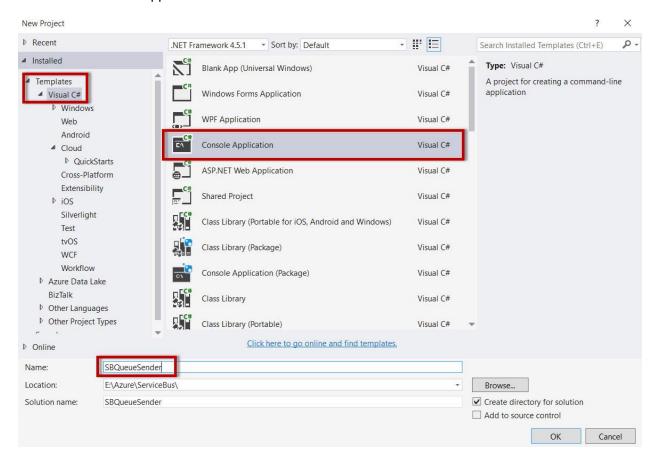


Queue created successfully.

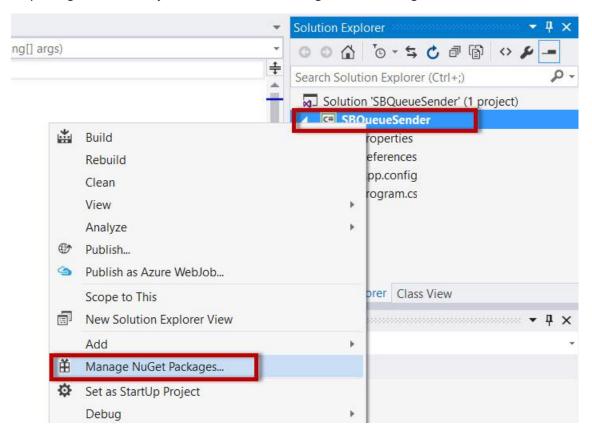


Step 6: Start Visual Studio & Choose Visual C# Template.

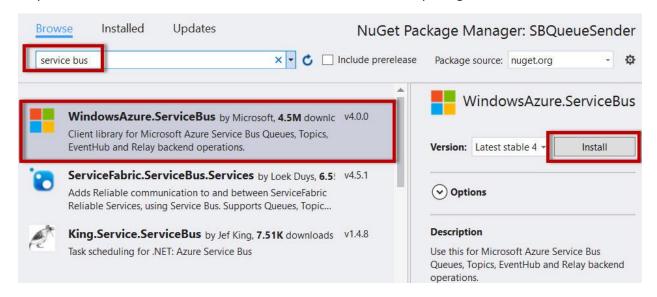
Create New Console Application



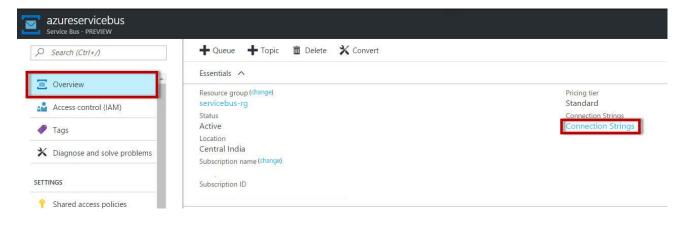
Step 7: Right click on Project Name & select "Manage NuGet Packages..."



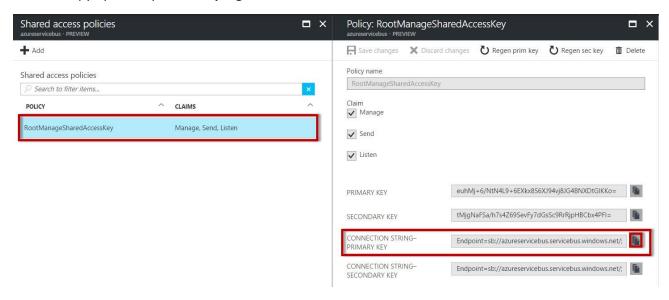
Step 8: Search for "service bus" & install WindowsAzure.ServiceBus packages.



Step 9: Navigate to Azure Portal & Select **Connection String** option.



Click on Copy option & paste into program.cs file



```
using Microsoft.ServiceBus.Messaging;
```

```
namespace SBQueueSender
    class Program
    {
       static string ConnectionString =
"Endpoint=sb://<mark>azureservicebus</mark>.servicebus.windows.net/;SharedAccessKeyName=RootManageShar
edAccessKey;SharedAccessKey=<copy-servicebus-sharedkey-from-azure-portal>";
      static string QueuePath = "sbqueue";
        static void Main(string[] args)
            //Service Bus Queue Sender
            var queueClient = QueueClient.CreateFromConnectionString(ConnectionString,
QueuePath);
            for (int i = 0; i < 10; i++)
            {
                var message = new BrokeredMessage("Sender's Message ==> " + i);
// message.SessionId = "test";
                queueClient.Send(message);
                Console.Write("\nSent Message : = " + i );
            Console.WriteLine("Press Enter to Exit...");
            Console.ReadLine();
            queueClient.Close();
       }
   }
}
```

```
C# SBOueueSende

    SBQueueSender.Program

                                                                                      → 🗣 Main(string[] args)
             using System.Text;
             using System.Threading.Tasks;
            using Microsoft.ServiceBus.Messaging;
      8
                                                                   Copy from Azure Portal
           □namespace SBQueueSender
     10
     11
            {
                 class Program
     12
     13
                     static string ConnectionString = "<ServiceBusQueueConnectionString)'
static string QueuePath = "<QueueName>";
     14
     15
     16
                      static void Main(string[] args)
     17
                                                          Queue Name
     18
                          //Service Bus Queue Sender
     19
                          var queueClient = QueueClient.CreateFromConnectionString(ConnectionString, QueuePath);
     20
     21
                          for (int i = 0; i < 10; i++)
     22
                              var message = new BrokeredMessage("Sender's Message ==> " + i);
     23
     24
                              queueClient.Send(message);
                              Console.Write("Sent Message : = " + i);
     25
     26
     27
                          Console.WriteLine("Press Enter to Exit...");
     28
                          Console.ReadLine();
     29
                          queueClient.Close();
     30
     31
     32
                     }
     33
                 }
            }
     34
```

Step 11: Now run the Sender program

```
<u>D</u>ebug Tea<u>m</u> <u>T</u>ools Te<u>s</u>t A<u>n</u>alyze <u>W</u>indow <u>H</u>elp
Debug - Any CPU
                            - Natart - 🎜 😅 🔚 🖫 🏗 🥞 🗎 🧸
■ SBQueueSender

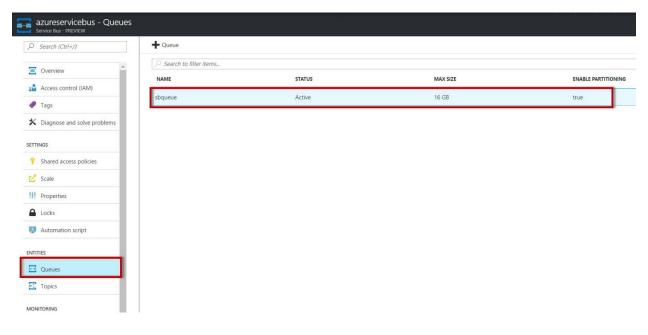
    SBQueueSender.Program

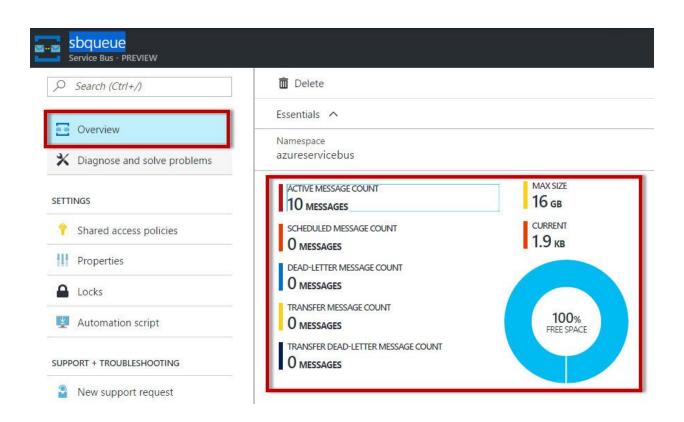
             using System.Text;
      5
             using System.Threading.Tasks;
      6
      7
            using Microsoft.ServiceBus.Messaging;
      8
      9
    10
           namespace SBQueueSender
    11
    12
                 class Program
    13
                      static string ConnectionString = "Endpoint=sb://a
    14
                      static string QueuePath = "sbqueue";
    15
    16
```

```
file:///E/Azure/ServiceBus/SBQueueSender/SBQueueSender.EXE

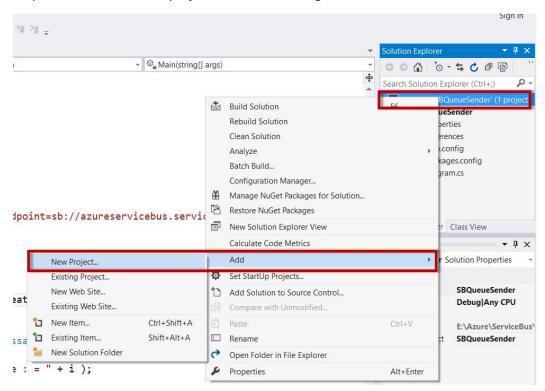
ent Message : = 0
Sent Message : = 1
Sent Message : = 2
Sent Message : = 3
Sent Message : = 5
Sent Message : = 5
Sent Message : = 5
Sent Message : = 6
Sent Message : = 7
Sent Message : = 8
Sent Message : = 9Press Enter to Exit...
```

Again Navigate to Service Bus Queue option

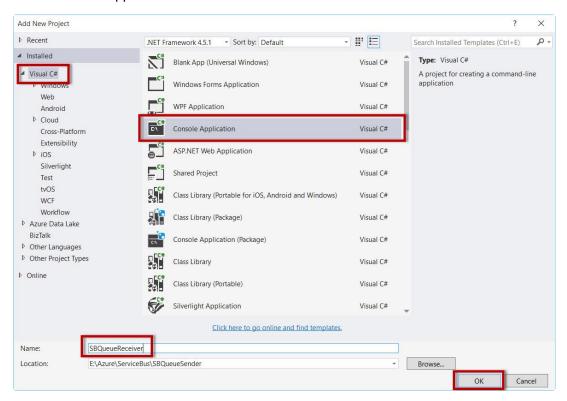




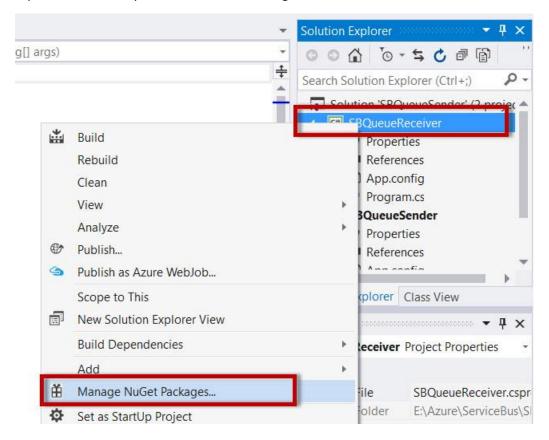
Step 12: Create one more project for Receiver using Visual Studio.



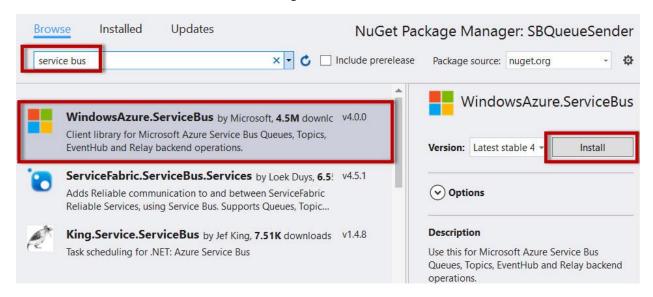
Create Console Application.



repeat the same steps to install NuGet Packages of Azure Service Bus.



Search for "service bus" & install NuGet Packages.



Step 13:

Add Service Bus Namespace

using Microsoft.ServiceBus.Messaging;

Get ConnectionString & QueueName from Azure Portal or copy from Sender's Project.

```
Program.cs + X Program.cs
C# SBQueueRecei
                                         SROueueReceiver,Program
                                                                                 → 🗣 Main(string[] args)
            using Microsoft.ServiceBus.Messaging;
      8
      9
           namespace SBQueueReceiver
     10
            {
                 class Program
     11
     12
     13
                     static string ConnectionString = "<ServiceBusQueueConnectionString>";
     14
                     static string QueuePath = "QueueName";
     15
     16
     17
                     static void Main(string[] args)
     18
     19
                          //Service Bus Queue Receiver
     20
                         var queueClient = QueueClient.CreateFromConnectionString(ConnectionString, QueuePath);
     21
                         queueClient.OnMessage(msg => ProcessMessage(msg));
     22
     23
     24
                         Console.WriteLine("Press Enter to Exit...");
     25
                         Console.ReadLine();
     26
                         queueClient.Close();
     27
     28
                     }
     29
                     private static void ProcessMessage(BrokeredMessage msg)
     30
     31
     32
                         var text = msg.GetBody<string>();
     33
                         Console.WriteLine("\nReceived Messages : " + text);
     34
     35
     36
                 }
```

```
namespace SBQueueReceiver
   class Program
       static string ConnectionString =
"Endpoint=sb://azureservicebus.servicebus.windows.net/;SharedAccessKeyName=RootManageShar
edAccessKey;SharedAccessKey=<copy-servicebus-sharedkey-from-azure-portal>";
       static string QueuePath = "sbqueue";
       static void Main(string[] args)
           //Service Bus Queue Receiver
           var queueClient = QueueClient.CreateFromConnectionString(ConnectionString,
QueuePath);
           queueClient.OnMessage(msg => ProcessMessage(msg));
           Console.WriteLine("Press Enter to Exit...");
           Console.ReadLine();
          queueClient.Close();
       private static void ProcessMessage(BrokeredMessage msg)
           var text = msg.GetBody<string>();
           Console.WriteLine("\nReceived Messages : " + text);
   }
}
```

Step 14: Now run the Receiver project.

```
Fress Enter to Exit...

Received Messages: Sender's Message ==> 0
Received Messages: Sender's Message ==> 4
Received Messages: Sender's Message ==> 3
Received Messages: Sender's Message ==> 7
Received Messages: Sender's Message ==> 1
Received Messages: Sender's Message ==> 8
Received Messages: Sender's Message ==> 8
Received Messages: Sender's Message ==> 6
Received Messages: Sender's Message ==> 9
Received Messages: Sender's Message ==> 5
Received Messages: Sender's Message ==> 5
Received Messages: Sender's Message ==> 2
```

Navigate to Azure Portal.

