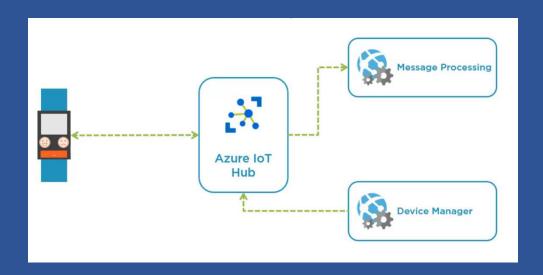


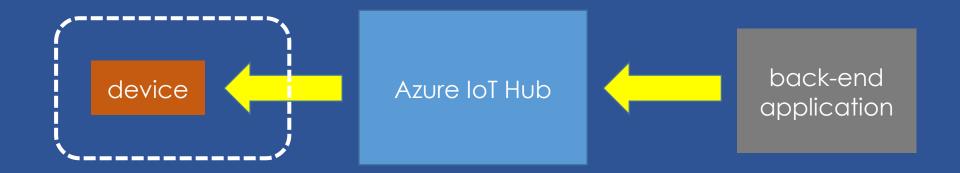
Send Cloud to Device message





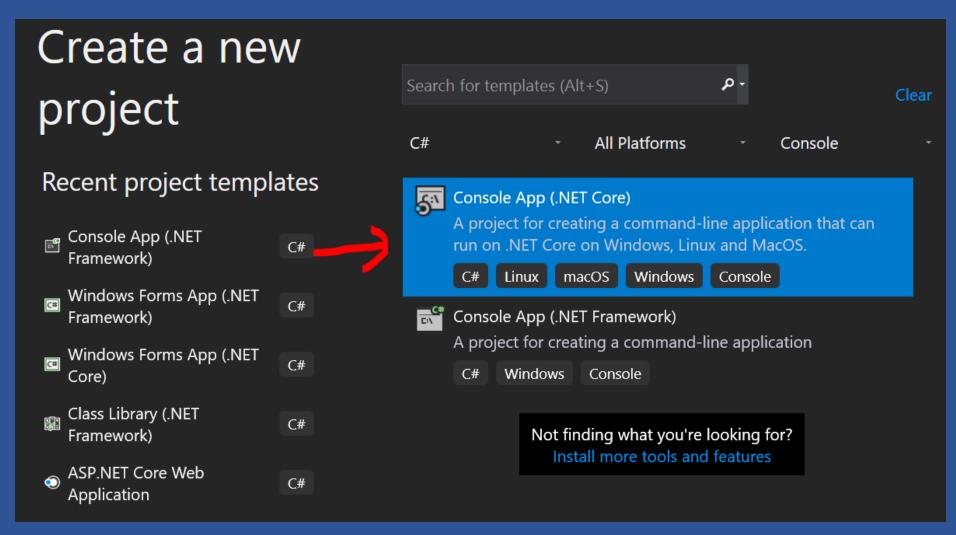
What to do?

Create Device Simulator that wait for message from Azure IoT Hub - back-end application





Open Visual Studio / Create C# Console App .NET Core / Name = d2c





NuGet 2 packages





Add name space

Add 2 Class fields

```
private static DeviceClient s_deviceClient;

private readonly static string s_connectionString =

"HostName=loyiothub1.azure-devices.net;DeviceId=loy-i
```



Add method ReciveC2dAsync

```
17
                private static async void ReceiveC2dAsync()
18
                   Console.WriteLine("\nReceiving cloud to device messages from service");
19
                   while (true)
20
21
                       Message receivedMessage = await s deviceClient.ReceiveAsync();
22
                       if (receivedMessage == null) continue;
23
24
                       Console.ForegroundColor = ConsoleColor.Yellow;
25
                       Console.WriteLine("Received message: {0}",
26
                        Encoding.ASCII.GetString(receivedMessage.GetBytes()));
27
                       Console.ResetColor();
28
29
                        // Notifies IoT Hub that the message has been successfully processed
30
                       await s deviceClient.CompleteAsync(receivedMessage);
31
32
33
```

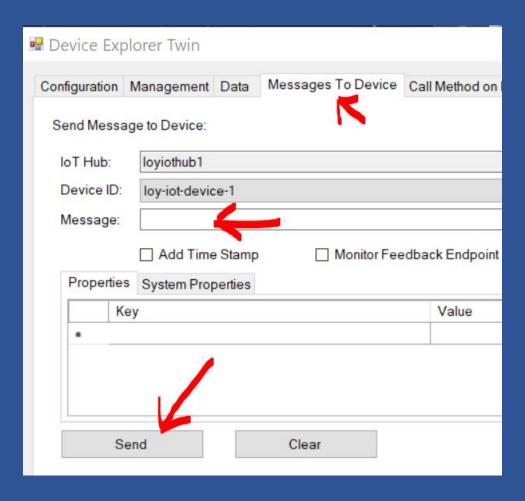


Add code to Main

```
private static void Main(string[] args)
35
36
                   // Connect to the IoT hub using the MQTT protocol
37
                    s_deviceClient = DeviceClient.CreateFromConnectionString(
38
                        s_connectionString,
39
                        TransportType.Mqtt);
40
                    ReceiveC2dAsync();
41
                    Console.ReadLine();
42
43
```



- Run program to wait for message from cloud
- 2. Device Explorer / Messages to device / Send





What's next?

