

Backend get D2C message





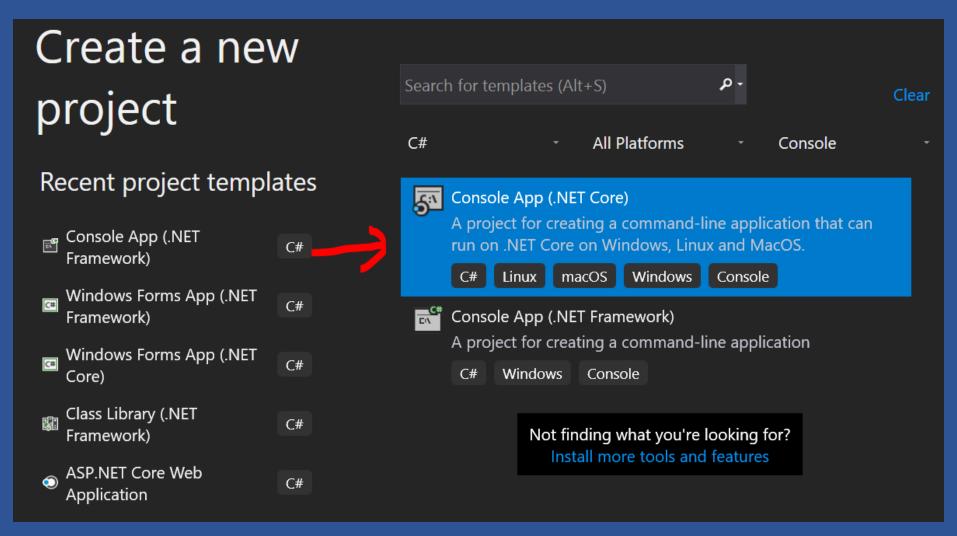
What to do?

Develop a back-end application to monitor message from device via IoT Hub



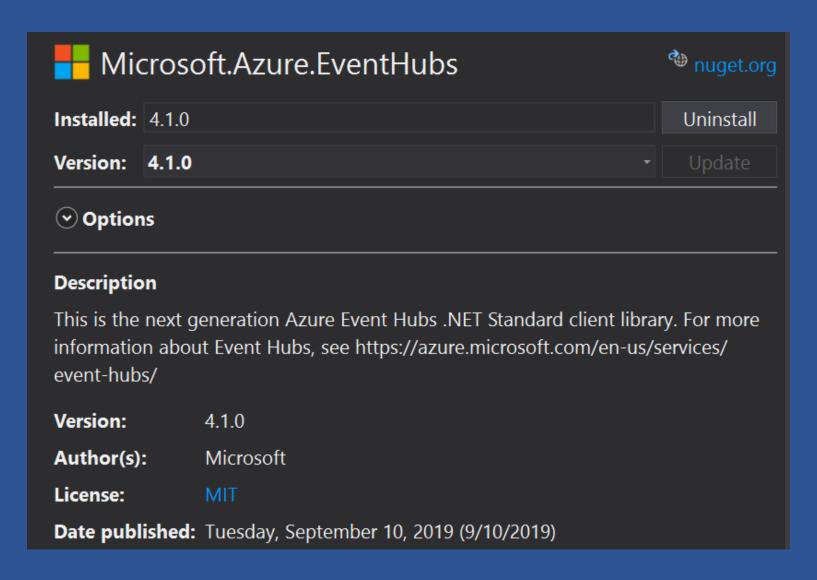


Open Visual Studio / Create C# Console App .NET Core / Name = backD2C





NuGet Microsoft.Azure.EventHubs

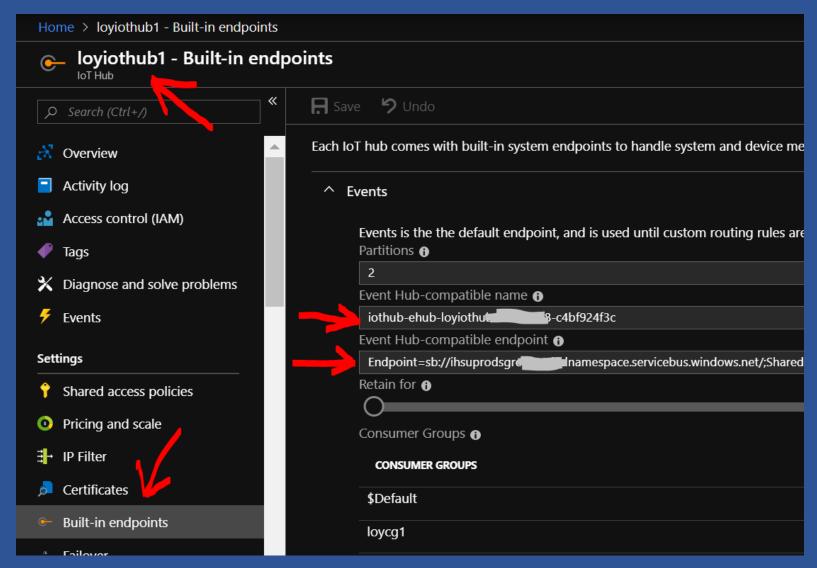




Add Namespace

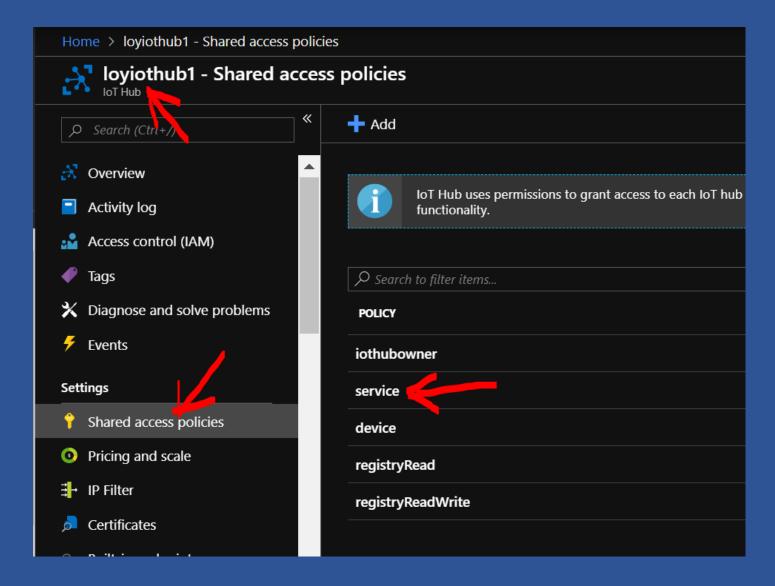


Get Event Hubs Compatible Endpoint & Path



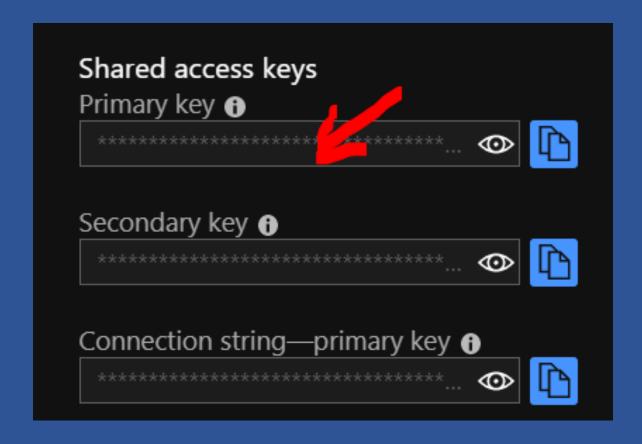


Get lot Hub Sas Key





Get lot Hub Sas Key





Add 5 class private fields



Add method GetD2CMessage

```
30
                private static async Task GetD2CMessage(
                    string partition, CancellationToken ct)
31
32
33
                    var eventHubReceiver = s_eventHubClient.CreateReceiver(
                        "$Default",
34
                        partition,
35
                        EventPosition.FromEngueuedTime(DateTime.Now));
36
                    while (true)
37
38
                        if (ct.IsCancellationRequested) break;
39
                        var events = await eventHubReceiver.ReceiveAsync(100);
40
                        if (events == null) continue;
41
                        foreach (EventData eventData in events)
42
43
                            Console.WriteLine(
44
                                Encoding.UTF8.GetString(eventData.Body.Array));
45
46
47
48
```

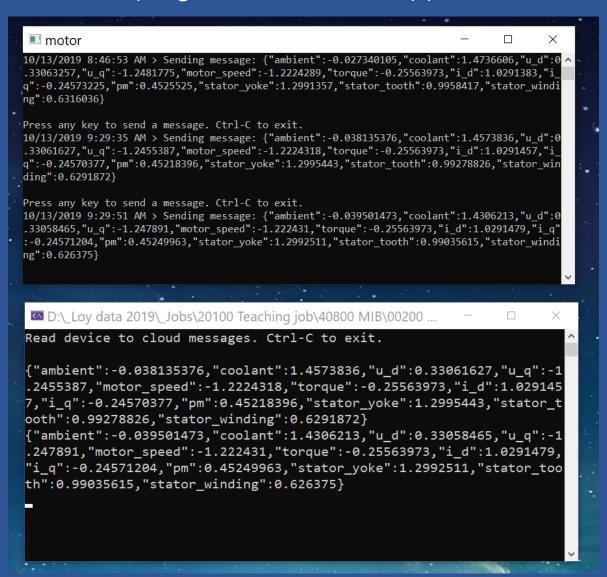


Add code to Main

```
private static async Task Main(string[] args)
50
51
52
                   Console.WriteLine(
                        "Read device to cloud messages. Ctrl-C to exit.\n");
53
                    var connectionString = new EventHubsConnectionStringBuilder(
                        new Uri(s_eventHubsCompatibleEndpoint),
                        s_eventHubsCompatiblePath,
56
                       s_iotHubSasKeyName,
57
                        s_iotHubSasKey);
                    s eventHubClient = EventHubClient.CreateFromConnectionString(
                        connectionString.ToString());
                    var runtimeInfo =
                        await s_eventHubClient.GetRuntimeInformationAsync();
62
                    var d2cPartitions = runtimeInfo.PartitionIds;
63
                    CancellationTokenSource cts = new CancellationTokenSource();
64
                    Console.CancelKeyPress += (s, e) =>
                       e.Cancel = true;
67
                       cts.Cancel();
                        Console.WriteLine("Exiting...");
                    };
70
                    var tasks = new List<Task>();
71
                    foreach (string partition in d2cPartitions)
72
73
                        tasks.Add(GetD2CMessage(partition, cts.Token));
74
75
                    Task.WaitAll(tasks.ToArray());
76
```



Run program c2d and this app to test





What's next?

