# Bước 1 – tạo dịch vụ

using System;

using System.ServiceModel;

namespace SimpleMsmqWcf

{

[ServiceContract(Namespace = "http://MyServices/IServiceContract")]

public interface IServiceContract

{

[OperationContract(IsOneWay = true)]

void SendMessage(string message);

[OperationContract(IsOneWay = true)]

void SendNumber(long message);

}

public class ServiceContract : IServiceContract

{

public void SendMessage(string message)

{

Console.WriteLine($"{DateTime.Now} [{nameof(SendMessage)}]: {message}");

}

public void SendNumber(long message)

{

Console.WriteLine($"{DateTime.Now} [{nameof(SendNumber)}]: {message}");

}

}

}

`

Bước 2 – Tạo ứng dụng để Console App (Client)

using SimpleMsmqWcf;

using System;

using System.Messaging;

using System.ServiceModel;

namespace SimpleMsmqWcfClient

{

class Program

{

static void Main(string[] args)

{

var endpointAddress = "net.msmq://localhost/private/SimpleMsmqWcfQueue";

String strPath = ".\\private$\\SimpleMsmqWcfQueue";

if(!MessageQueue.Exists(strPath)){

MessageQueue.Create(strPath,true);

}

NetMsmqBinding binding = new NetMsmqBinding(NetMsmqSecurityMode.None);

EndpointAddress myEndpoint = new EndpointAddress(endpointAddress);

ChannelFactory<IServiceContract> channel = new ChannelFactory<IServiceContract>(binding, myEndpoint);

IServiceContract service = channel.CreateChannel();

try

{

service.SendMessage($"The current time is {DateTime.Now}");

service.SendNumber(DateTime.Now.Ticks);

}

catch (Exception ex) {

Console.WriteLine("Error: " + ex.Message);

}

Console.WriteLine("Client is running ....");

Console.WriteLine("Messages was sent....");

Console.ReadLine();

}

}

}

Bước 3 – Server

using SimpleMsmqWcf;

using System;

using System.ServiceModel;

namespace SimpleMsmqWcfServer

{

[ServiceBehavior(AddressFilterMode = AddressFilterMode.Any, InstanceContextMode = InstanceContextMode.PerCall, ConcurrencyMode = ConcurrencyMode.Multiple)]

public sealed class ServiceContract : IServiceContract

{

public void SendMessage(string message)

{

Console.WriteLine($"{DateTime.Now} [{nameof(SendMessage)}]: {message}");

}

public void SendNumber(long message)

{

Console.WriteLine($"{DateTime.Now} [{nameof(SendNumber)}]: {message}");

}

}

}

using System;

using System.ServiceModel;

using System.Threading;

namespace SimpleMsmqWcfServer

{

class Program

{

public static ServiceHost \_host;

public static Thread \_heartBeatThread;

static void Main(string[] args)

{

\_host = new ServiceHost(typeof(ServiceContract));

\_host.Open();

\_heartBeatThread = new Thread(new ThreadStart(WriteHeartBeat));

\_heartBeatThread.Start();

\_heartBeatThread.Join();

}

public static void WriteHeartBeat()

{

while (true)

{

Console.WriteLine("{0} Sleeping...", DateTime.Now);

Thread.Sleep(1000);

}

}

}

}