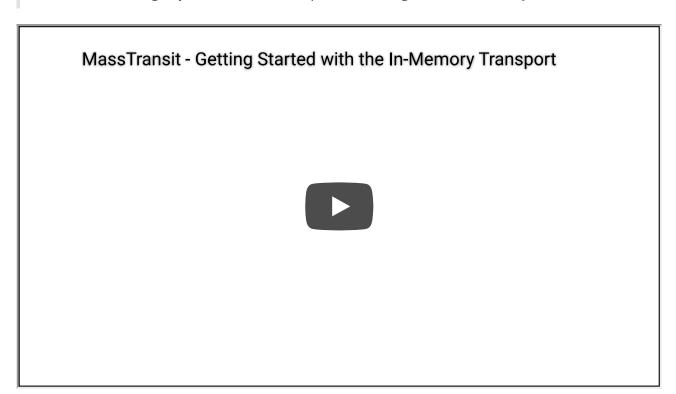


In Memory

This tutorial will get you from zero to up and running with In Memory and MassTransit.



Prerequisites

This example requires the following:

• a functioning installation of the dotnet runtime and sdk (at least 6.0)

Install MassTransit Templates

MassTransit includes project and item **templates** simplifying the creation of new projects. Install the templates by executing dotnet new -i MassTransit.Templates at the console. A video introducing the templates is available on **YouTube** .





Initial Project Creation

Create the worker project

To create a service using MassTransit, create a worker via the Command Prompt.

```
$ dotnet new mtworker -n GettingStarted
$ cd GettingStarted
$ dotnet new mtconsumer
```

sh

Overview of the code

When you open the project you will see that you have 3 class files.

- Program.cs is the standard entry point and here we configure the host builder.
- Consumers/GettingStartedConsumer.cs is the MassTransit Consumer
- Contracts/GettingStarted.cs is an example message

Add A BackgroundService

In the root of the project add Worker.cs

```
namespace GettingStarted;

using System;
using System.Threading;
using System.Threading.Tasks;
using Contracts;
using MassTransit;
using Microsoft.Extensions.Hosting;

public class Worker : BackgroundService
{
    readonly IBus _bus;
```



```
protected override async Task ExecuteAsync(CancellationToken stoppingToken)
{
    while (!stoppingToken.IsCancellationRequested)
    {
        await _bus.Publish(new GettingStarted { Value = $"The time is {DateTimeOffsome await Task.Delay(1000, stoppingToken);
    }
}
```

Register Worker

In Program.cs at the bottom of the ConfigureServices method add

```
services.AddHostedService<Worker>();
```

Update your Consumer

In your Consumers folder, edit the GettingStartedConsumer with a logging statement that looks like this.

```
namespace GettingStarted.Consumers;

using System.Threading.Tasks;
using Contracts;
using MassTransit;
using Microsoft.Extensions.Logging;

public class GettingStartedConsumer :
    IConsumer<GettingStarted>
{
    readonly ILogger<GettingStartedConsumer> logger;
```



```
__logger = logger;
}

public Task Consume(ConsumeContext<GettingStarted> context)
{
    __logger.LogInformation("Received Text: {Text}", context.Message.Value);
    return Task.CompletedTask;
}
```

Run the project

```
$ dotnet run
```

The output should have changed to show the message consumer generating the output (again, press Control+C to exit).



Configuration \rightarrow