## Generalizing the monitoring configuration

## Start

Let's now extract the Prometheus configuration we currently have in our Trading microservice into our Common library so that enabling metrics becomes very straightforward for future microservices.

## In Common repo

1. Copy the Prometheus exporter package reference from Trading project to Play.Common.csproj:

```
<Project Sdk="Microsoft.NET.Sdk">
 <ItemGroup>
  <PackageReference Include="OpenTelemetry.Exporter.Jaeger" Version="1.3.0-beta.1" />
  <PackageReference Include="OpenTelemetry.Exporter.Prometheus" Version="1.2.0-rc5" />
  <PackageReference Include="OpenTelemetry.Extensions.Hosting" Version="1.0.0-rc9.3" />
 </ltemGroup>
</Project>
2. Add the AddMetrics method to OpenTelemetry\Extensions.cs:
public static IServiceCollection AddMetrics(this IServiceCollection services, IConfiguration config)
  services.AddOpenTelemetryMetrics(builder =>
    var serviceSettings = config.GetSection(nameof(ServiceSettings)).Get<ServiceSettings>();
    builder.AddMeter(serviceSettings.ServiceName)
        .AddMeter("MassTransit")
        .AddHttpClientInstrumentation()
        .AddAspNetCoreInstrumentation()
        .AddPrometheusExporter();
  });
  return services;
}
3. Add a UseInstrumentation() calls to MassTransit\Extensions.cs:
public static class Extensions
  ...
```

```
public static void UsingPlayEconomyRabbitMq(
    this IBusRegistrationConfigurator configure,
    Action<IRetryConfigurator> configureRetries = null)
  {
      configurator.UseMessageRetry(configureRetries);
      configurator.UseInstrumentation(serviceName: serviceSettings.ServiceName);
    });
  }
  public static void UsingPlayEconomyAzureServiceBus(
    this IBusRegistrationConfigurator configure,
    Action<IRetryConfigurator> configureRetries = null)
  {
    configure.UsingAzureServiceBus((context, configurator) =>
    {
      configurator.UseMessageRetry(configureRetries);
      configurator.UseInstrumentation(serviceName: serviceSettings.ServiceName);
    });
 }
}
```

- 4. Commit and push changes
- 5. Wait for the GitHub workflow to complete

## In Trading repo

- 6. Bump the version of Play. Common to the just published NuGet package version
- 7. Remove OpenTelemetry package references
- 8. Use the new AddMetrics method in Startup.ConfigureServices and remove call to AddOpenTelemetryMetrics:

var serviceSettings = Configuration.GetSection(nameof(ServiceSettings)).Get <servicesettings>(</servicesettings>	ŀ÷
	,,
— builder.AddMeter(serviceSettings.ServiceName)	
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AddPrometheusExporter():	
wider remediation (i)	
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. ***	
}	

- 9. Run all microservices
- 10. Perform a few purchases in Frontend portal
- 11. Verify Trading metrics keep reporting
- 12. Show the new MassTransit metrics
- 13. Commit and push changes

In the next lesson you will deploy Prometheus to your AKS cluster.