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Setup Autofac Dependency Injection in ASP .NET Core 8



Robert Richardson · Follow

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I was recently setting up Autofac in the latest version of ASP .NET Core 8, and I couldn't find any useful information on how to set it up with the new format of the program.cs file. So here it is.

The new format of the program.cs will look something like this.

```
1 var builder = WebApplication.CreateBuilder(args);
2
3 // Add services to the container.
4
5 builder.Services.AddControllers();
6 // Learn more about configuring Swagger/OpenAPI at https://aka.ms/aspnetcore/swashbuckle
7 builder.Services.AddEndpointsApiExplorer();
8 builder.Services.AddSwaggerGen();
9
10 var app = builder.Build();
11
12 // Configure the HTTP request pipeline.
13 if (app.Environment.IsDevelopment())
14 {
15     app.UseSwagger();
16     app.UseSwaggerUI();
17 }
```

ASP.NET Core program.cs

So where do you add Autofac? First you'll obviously need to make sure to add the Autofac nuget package to your solution, and secondly also add the Extensions package. The two packages are

Autofac

Autofac.Extensions.DependencyInjection

Once you've installed the two packages, add the following code

```
builder.Host
    .UseServiceProviderFactory(new AutofacServiceProviderFactory())
    .ConfigureContainer<ContainerBuilder>((container) =>
    {
        container.RegisterType<MagicKeyVault>().InstancePerLifetimeScope();
    });
```

You can register your services within the ConfigureContainer method, or include any Autofac modules you have throughout your project.

So your program.cs should now look something like this.

```
using Autofac;
using Autofac.Extensions.DependencyInjection;
using Blog.AutofacAspDotNet;

var builder = WebApplication.CreateBuilder(args);

builder.Host
    .UseServiceProviderFactory(new AutofacServiceProviderFactory())
    .ConfigureContainer<ContainerBuilder>((container) =>
    {
        container.RegisterType<MagicKeyVault>().InstancePerLifetimeScope();
    });
```

```
// Add services to the container.
builder.Services.AddControllers();
// Learn more about configuring Swagger/OpenAPI at https://aka.ms/aspnetcore/swashbuckle
builder.Services.AddEndpointsApiExplorer();
builder.Services.AddSwaggerGen();


var app = builder.Build();
```


I hope this helps you! I will do another blog post about how to register your controllers with Autofac and how to Autowire their properties.


Thanks I hope you learned something new! Follow for more C# knowledge, tips, tricks!

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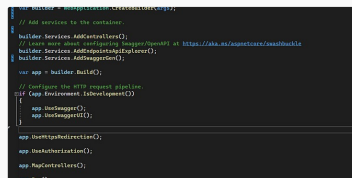


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
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
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