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# The Options pattern / Injecting options into services

## Example #

With ASP.NET Core the Microsoft team also introduced the Options pattern, which allows to have strong typed options and once configured the ability to inject the options into your services.

First we start with a strong typed class, which will hold our configuration.

```
public class MySettings
{
    public string Value1 { get; set; }
    public string Value2 { get; set; }
}
```

And an entry in the `appsettings.json`.

```
{
  "mysettings" : {
    "value1": "Hello",
    "value2": "World"
  }
}
```

Next we initialize it in the Startup class. There are two ways to do this

1. Load it directly from the `appsettings.json` "mysettings" section

```
services.Configure<MySettings>(Configuration.GetSection("mysettings"));
```

2. Do it manually

```
services.Configure<MySettings>(new MySettings
{
    Value1 = "Hello",
    Value2 = Configuration["mysettings:value2"]
});
```

Each hierarchy level of the `appsettings.json` is separated by a `:`. Since `value2` is a property of the `mysettings` object, we access it via `mysettings:value2`.

Finally we can inject the options into our services, using the `IOptions<T>` interface

```
public class MyService : IMyService
{
    private readonly MySettings settings;

    public MyService(IOptions<MySettings> mysettings)
    {
        this.settings = mySettings.Value;
    }
}
```

## Remarks

If the `IOptions<T>` isn't configured during the startup, injecting `IOptions<T>` will inject the default instance of `T` class.



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