2020

Netcoreconf

Configuración de aplicaciones en .net core



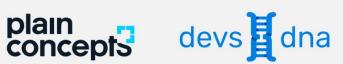
Fermín Sáez Programador en AIDA @mintxelas



























Application configuration

- Host Configuration vs. App Configuration
- Configuration comes as key/value pairs
- Dictionary-like structure filled by an arbitrary number of providers
- Settings can be overridden: last provider wins.
- Documentation: https://docs.microsoft.com/en-us/aspnet/core/fundamentals/configuration/index?view=aspnetcore-3.1
- More providers: https://github.com/andrewlock/NetEscapades.Configuration
- Examples repo: https://github.com/mintxelas/netcoreconfiguration



Command line arguments, key convention

(DEMO - example 1)

Nuget: Microsoft.Extensions.Configuration.CommandLine

$$FOO="Bar" \rightarrow conf["foo"] == "Bar"$$



Environment Variables, convention

(DEMO - example 2)

(Included in asp.net SDK projects by default)

```
PREFIX_FOO = "Bar" → conf["foo"] == "Bar"
```



Json Files, complex hierarchy

```
(DEMO - example 3) (Included in asp.net SDK projects by default)
```



Azure App Configuration, UserSecrets

(DEMO - example 4)

Azure App Configuration nuget: Microsoft.Extensions.Configuration.AzureAppConfiguration

UserSecrets nuget: Included in asp.net SDK projects by default

C:\Users\xxxxxX\AppData\Roaming\Microsoft\UserSecrets



Custom Configuration Provider

builder.AddCustomProvider(conf["ConnectionStrings:sqlserver"]);

```
public class CustomConfigurationSource : IConfigurationSource

public class CustomConfigurationProvider : IConfigurationProvider

public static IConfigurationBuilderAddCustomProvider(this IConfigurationBuilder builder, string connectionString)
{
    return builder.Add(new CustomConfigurationSource(connectionString));
}
```



Strongly-Typed configuration

(DEMO - example 6)

```
services.Configure<ExternalApiConfiguration>(Configuration.GetSection("ExternalApi"));

{
  public class ExternalApiConfiguration
  {
    public string AuthorizationServer { get; set; }
    public string ClientId { get; set; }
    public string ClientSecret { get; set; }
    public string ClientSecret { get; set; }
    "AuthorizationServer": "",
    "ClientId": "settings tipados",
    "ClientSecret": ""
    }
}
```



Configuration injection, hot reload

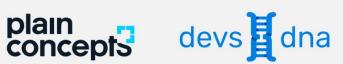
```
(DEMO - example 7)
 builder.AddJsonFile("appsettings.json", optional: true, reloadOnChange: true);
 services.Configure<ExternalApiConfiguration>(Configuration.GetSection("ExternalApi"));
 private readonly ExternalApiConfiguration configuration;
 private readonly ExternalApiConfiguration configurationSnapshot;
 public HomeController(IOptions<ExternalApiConfiguration> options,
           IOptionsSnapshot<ExternalApiConfiguration> optionsSnapshot)
     configuration = options.Value;
     configurationSnapshot = optionsSnapshot.Value;
```





























Más información:

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