SQL DAY [XELA 2020]



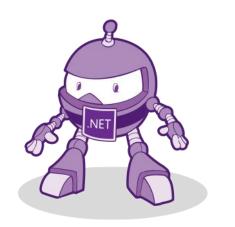






Conociendo la plataforma .NET Core

El futuro es .NET Core





SQL DAY [XELA 2020]

Gracias a nuestros patrocinadores











Hola!

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https://github.com/yovafree https://yovadeleon.dev

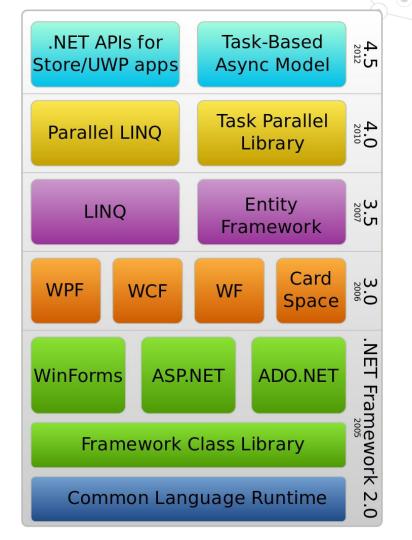
Agenda

- Qué es .NET Framework
- Historia de .NET
- Entorno de .NET
- Qué es .NET Standard
- Implementaciones de .NET Standard
- .NET Core
- Características de .NET Core
- .NET Core Tiempos modernos
- Demos
- Siguientes pasos



Qué es .NET Framework

- Es un conjunto de librerías lanzados por Microsoft en 2002
- Lenguajes empleados en .NET Framework: C#, Visual Basic, J#, F#
- Tecnología nativa de Microsoft, solo corre sobre sistemas operativos Windows



Historía de .NET





Qué es .NET Standard

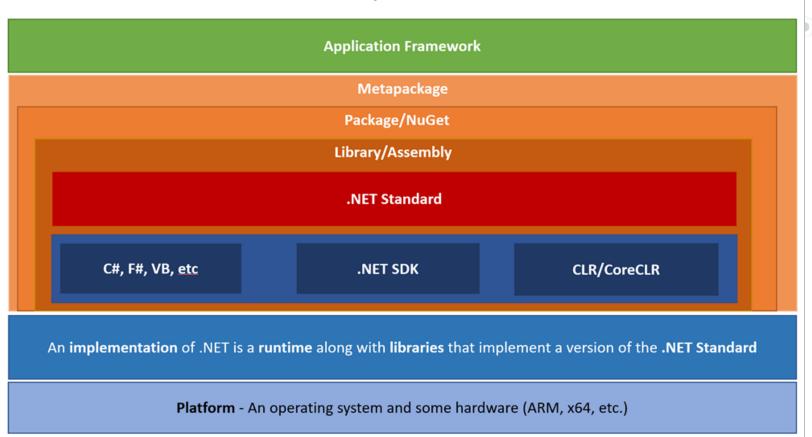
 NET Standard es un conjunto de API que se implementan mediante la biblioteca de clases base de una implementación de .NET.



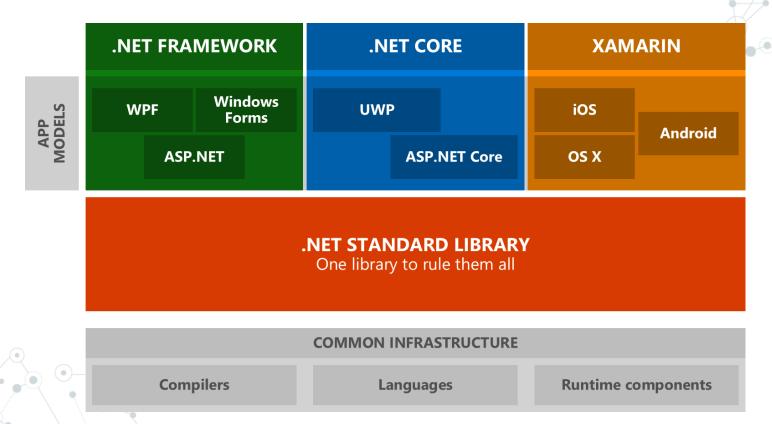
Versiones de .NET

Milestone	Release Date
.NET Core 2.1.x (servicing)	LTS (Long Term Support) release. Approximately every 1-2 months or as needed.
.NET Core 3.0.x (servicing)	Maintenance. Approximately every 1-2 months or as needed.
.NET Core 3.1.x (servicing)	LTS (Long Term Support) release. Approximately every 1-2 months or as needed.
.NET 5.0	Release scheduled for November 2020
.NET 6.0	LTS (Long Term Support) release, scheduled for November 2021
.NET 7.0	Release scheduled for November 2022
.NET 8.0	LTS (Long Term Support) release, scheduled for November 2023

.NET - "Do you know .NET?"



Implementación de .NET Standard



APIs en .NET Standard 2.0

XML	XLinq • XML Document • XPath • Schema • XSL		
SERIALIZATION	BinaryFormatter • Data Contract • XML		
NETWORKING	Sockets • HTTP • Mail • WebSockets		
Ю	Files • Compression • MMF		
THREADING	Threads • Thread Pool • Tasks		
CORE	Primitives • Collections • Reflection • Interop • Linq		

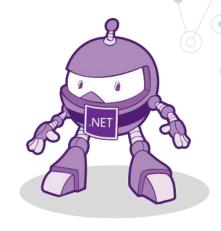


.NET Core

- NET Core es una implementación multiplataforma de .NET diseñada para controlar cargas de trabajo de servidor y en la nube a escala.
- Se ejecuta en Windows, macOS y Linux.
- Implementa .NET Standard, de forma que cualquier código que tenga como destino .NET Standard se puede ejecutar en .NET Core.
 - ASP.NET Core, Windows Forms y Windows Presentation Foundation (WPF) se ejecutan todos en .NET Core.

Características de .NET Core . NET (re

- Modular
- Preparado para el cloud
- **Open Source**
- Editores o herramientas de desarrollo
- **Cross Platform**







MODULAR







Ámbito de .NET – Una plataforma unificada



Versiones de .NET Core y su nueva versión 3.1

Long-term support

.NET Core 3.1 is an LTS release with support from Microsoft for the next three years. It's highly recommended that you move your apps to .NET Core 3.1. The current lifecycle of other major releases is as follows:

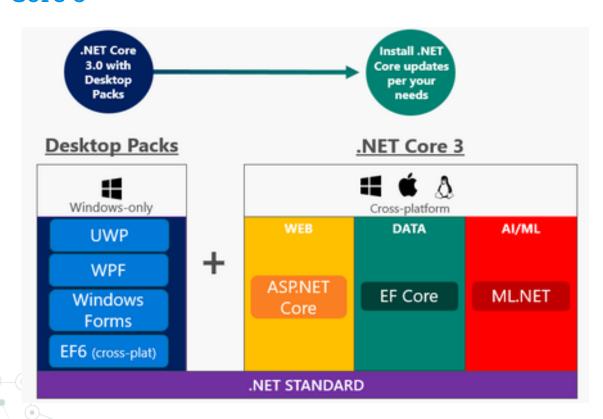
Release	Note
.NET Core 3.0	End of life on March 3, 2020.
.NET Core 2.2	End of life on December 23, 2019.
.NET Core 2.1	End of life on August 21, 2021.



¿Qué hay de nuevo en .NET Core 3?

- Language improvements C# 8.0
- NET Standard 2.1
- Windows Native Interop
- Linux
 - GPIO Support for Raspberry Pi
 - ARM64 Linux support
 - Docker and cgroup memory Limits

.NET Core 3

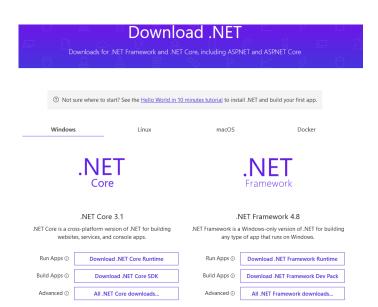


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API.NET a .NET Core

¿Cómo empiezo?





https://dotnet.microsoft.com/dow nload

Necesitamos un IDE! – Visual Studio Code

https://code.visualstudio.com/



Hola Mundo

Mi primer proyecto



dotnet new console –n myApp dotnet run





Tipos de proyectos

odotnet new --help

Templates	Short Name	Language	Tags
	console	[C#], F#, VB	Common/Console
Class library	classlib	[C#], F#, VB	Common/Library
WPF Application	wpf	[C#]	Common/WPF
WPF Class library	wpflib	[C#]	Common/WPF
WPF Custom Control Library	wpfcustomcontrollib	[C#]	Common/WPF
WPF User Control Library	wpfusercontrollib	[C#]	Common/WPF
Windows Forms (WinForms) Application	winforms	[C#]	Common/WinForms
Windows Forms (WinForms) Class library	winformslib	[C#]	Common/WinForms
Worker Service	worker	[C#]	Common/Worker/Web
Unit Test Project	mstest	[C#], F#, VB	Test/MSTest
NUnit 3 Test Project	nunit	[C#], F#, VB	Test/NUnit
NUnit 3 Test Item	nunit-test	[C#], F#, VB	Test/NUnit
xUnit Test Project	xunit	[C#], F#, VB	Test/xUnit
Razor Component	razorcomponent	[C#]	Web/ASP.NET
Razor Page	page	[C#]	Web/ASP.NET
MVC ViewImports	viewimports	[C#]	Web/ASP.NET



Conociendo NuGet

NuGet es un administrador de paquetes gratuito y de código abierto diseñado para la plataforma de desarrollo de Microsoft.



MVC.NET Core

WebAPI.NET Core

Contenedores

Siguientes pasos

- gRPC .NET Core
- Razor para .NET Core
- Async / await
- O Blazor
- Persistencia (Entity Framework Core y LINQ)
- Base de Datos (SQL Server, MySQL, PostgreSQL)
- Microservicios

Gracias!

¿Preguntas?

Puedes contactarme mediante:

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https://github.com/yovafree

https://yovadeleon.dev

Repositorio para las demos





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