

Improving productivity of microservices development with Project Tye

Pedro Ignacio Errico | September 15, 2021



“Being productive is not about getting more done. It's about having less to do.”

— Paraphrasing *Francine Jay*



Agenda

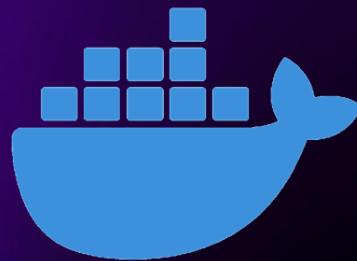
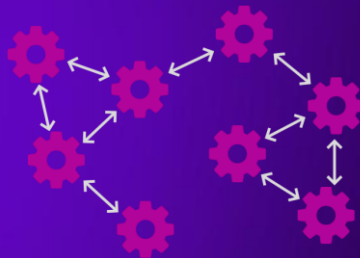
- **What is Tye?**
- **Getting Tye**
- **How Tye helps us:**
 - **Develop an app**
 - **Containerize and deploy an app to Kubernetes**
- **Shortcomings and future**



Assumptions

At least a basic knowledge of:

- .NET Core
- Microservices
- Containers



— What is Tye?

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Dev tool
(Demos coming up!)



.NET tool
Frontends exist



Experiment
at Microsoft



Open source



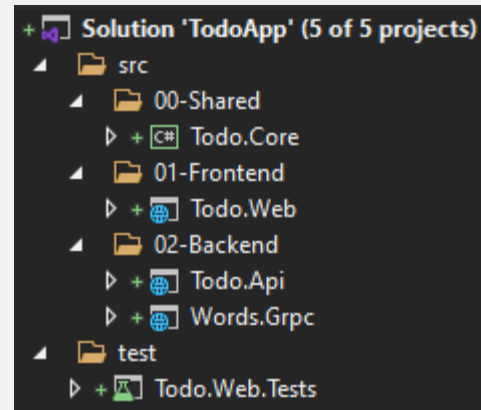
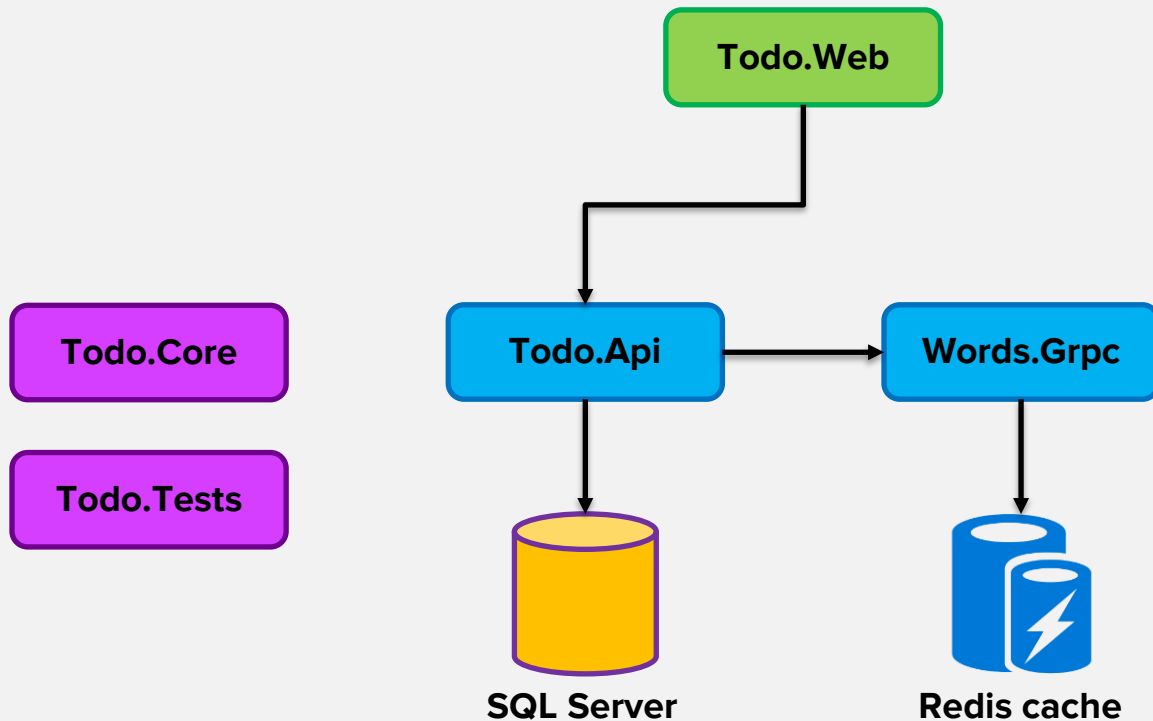
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Let's get Tye!



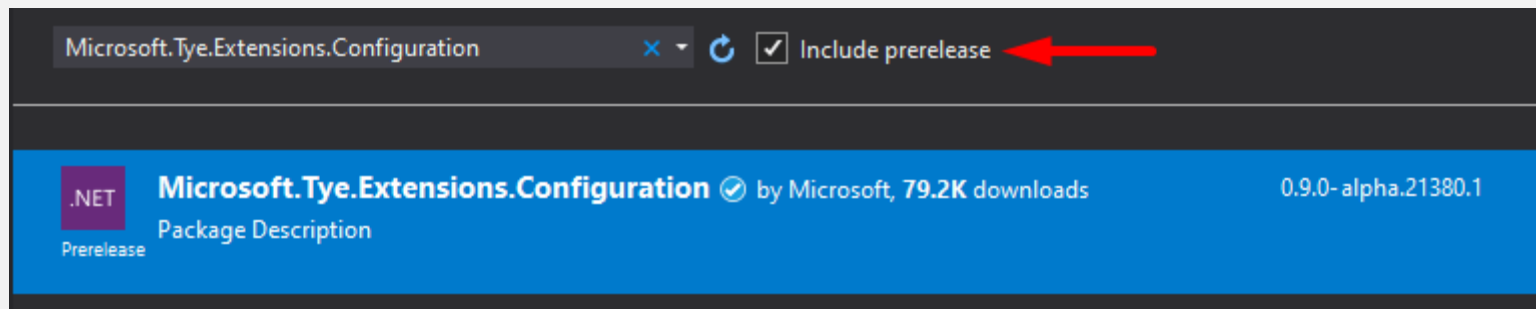
— A not-so-trivial app

14



— Service Discovery

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The screenshot shows the NuGet package search interface. At the top, the search bar contains 'Microsoft.Tye.Extensions.Configuration'. To the right of the search bar are icons for clearing the search, refreshing, and a checked checkbox labeled 'Include prerelease', which is pointed to by a red arrow. Below the search bar, the first result is displayed on a blue background. It features the .NET logo, the package name 'Microsoft.Tye.Extensions.Configuration' with a verified badge, the text 'by Microsoft, 79.2K downloads', and the version '0.9.0-alpha.21380.1'. Below the package name, the text 'Package Description' is visible. A 'Prerelease' label is positioned to the left of the package name.

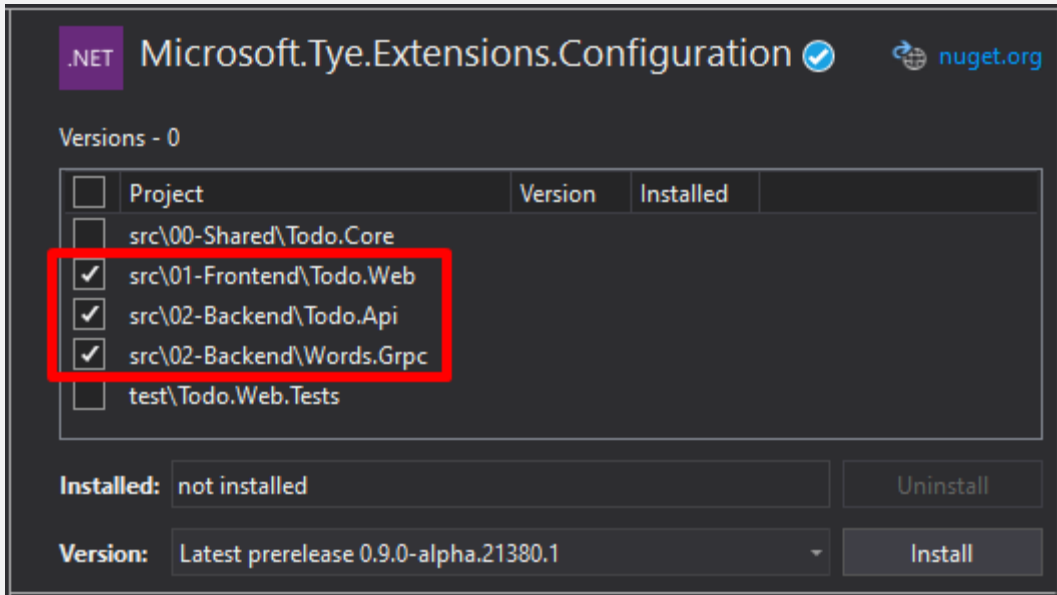
Microsoft.Tye.Extensions.Configuration x ↻ ☒ Include prerelease

.NET **Microsoft.Tye.Extensions.Configuration** ✓ by Microsoft, 79.2K downloads 0.9.0-alpha.21380.1
Prerelease Package Description



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— Service Discovery



— Cheat sheet

```
tye init
```

```
tye run --watch
```

```
tye deploy -i
```

```
tye undeploy
```



— Source code

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[https://github.com/ignacioerrico/
pw-2021-tye-demo](https://github.com/ignacioerrico/pw-2021-tye-demo)

Repo for my solution



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Thank you!

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