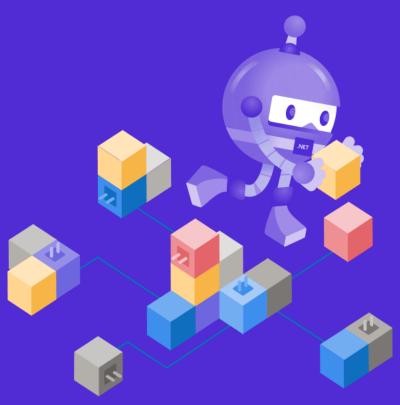
A Journey into .NET Microservices with



.NET Conf 2020 David Dieruf - @dierufdavid



Logs

[nope] IIS logs, Event Store, To local disk

[yup] Write to console, let platform forward to aggregator

You're going to the cloud.

applications:

 name: some-cool-app instances: 3 memory: 256M buildpack: dotnet core buildpack

Metrics

[nope] IIS, Do nothing

[yup] Endpoint for scraping (Prometheus, telegraf, ...)

Health

[nope] Global.asax, Do nothing

[yup] Endpoint for status (as HTTP 200)

Environment & Instance Info

[nope] IIS, Manually write everything :(

[yup] Endpoint for querying



Connection

oohh the [backing] services!

Highly Available

Multiple instances, Multiple datacenters(zones)

Resilient to change





A cloud-native rock star.

```
(x) => {
   x. GetType() is typeof [Database | Cache | Messaging |
Config | Discovery]
}
```

External Configuration

Circuit Breakers

Auth(entication | orization)

Service Discovery

Message Bus

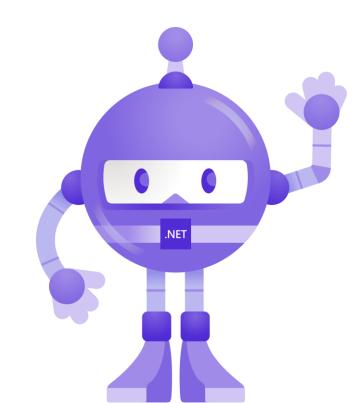




Meet,



steeltoe





What is Steeltoe?

Created in 2015, Steeltoe is an **open source** project that enables .NET developers to build resilient, best practice microservices for the cloud.

Steeltoe's many **purpose-built features** make it easy to build and run both ASP.NET **Framework** as well as ASP.NET **Core** microservices in production at scale.



Does Steeltoe replace .NET?

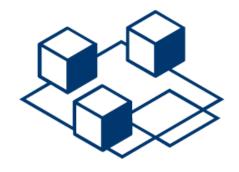
No Way!

Steeltoe adds to .NET's cloud opinions with ready-to-run patterns like distributed tracing, discovery, external configuration, management, and circuit-breaking.



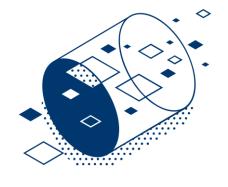


Code for the business, not the platform.









Microservices

Quickly deliver production-grade features that are independently evolvable.

Cloud

Your code, on any cloud. Connect and scale your services, whatever the platform.

Webapps

A framework for fast, secure, and responsive ASP.NET web applications.

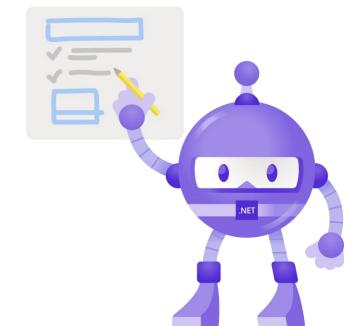
Event Driven

Integrate with your enterprise. React to business events. Act on your streaming data in real-time.



Demo: Adding Steeltoe to webapi





Get started with Steeltoe today!

https://Steeltoe.io

Learn more, step by step guides, documentation

Support

Slack https://slack.Steeltoe.io

GitHub https://github.com/steeltoeoss

NuGet https://nuget.org/profiles/steeltoe

