TECH CONFERENCE
DotNet 2020

#DotNet2020

Building Microservices with Tye

ORGANIZATION

plain concepts

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Thank you!

Glenn Condron

Program Manager

I lead a team of PMs that work on .NET application models/frameworks. ASP.NET, Entity Framework, Tye, etc

I’ve worked on ASP.NET Core since before it had a name.

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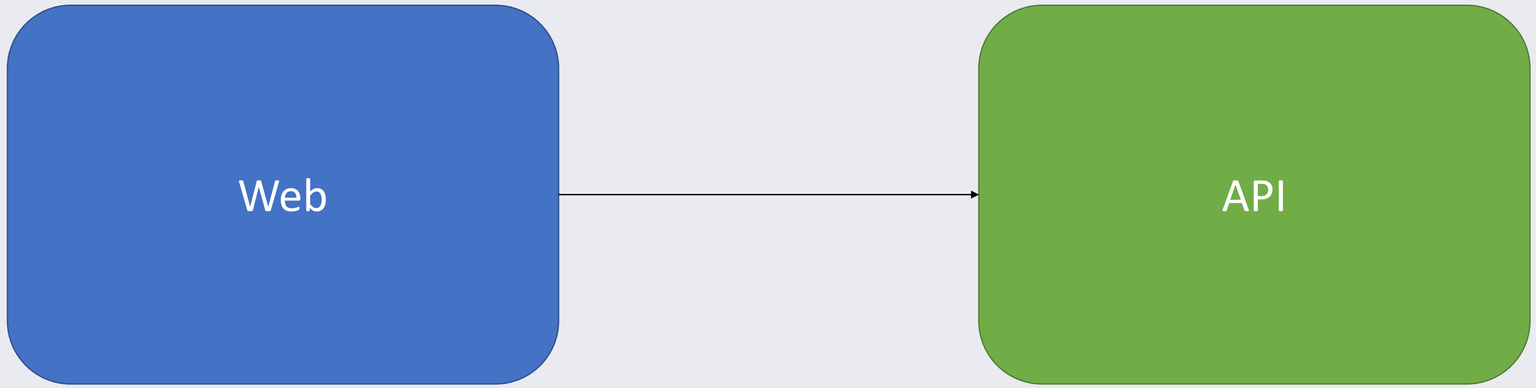
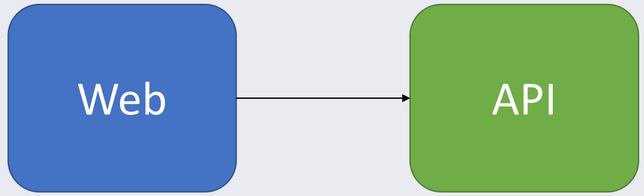
Getting started: Today



Getting started: Today

- Multiple project startup
  - It’s slightly easier in VS than VS Code.
- Service Discovery
  - Configuring ports in each service for every service
  - Fragile to change, touch every project
- What about dependencies?
  - Redis, SQL, message queues, etc



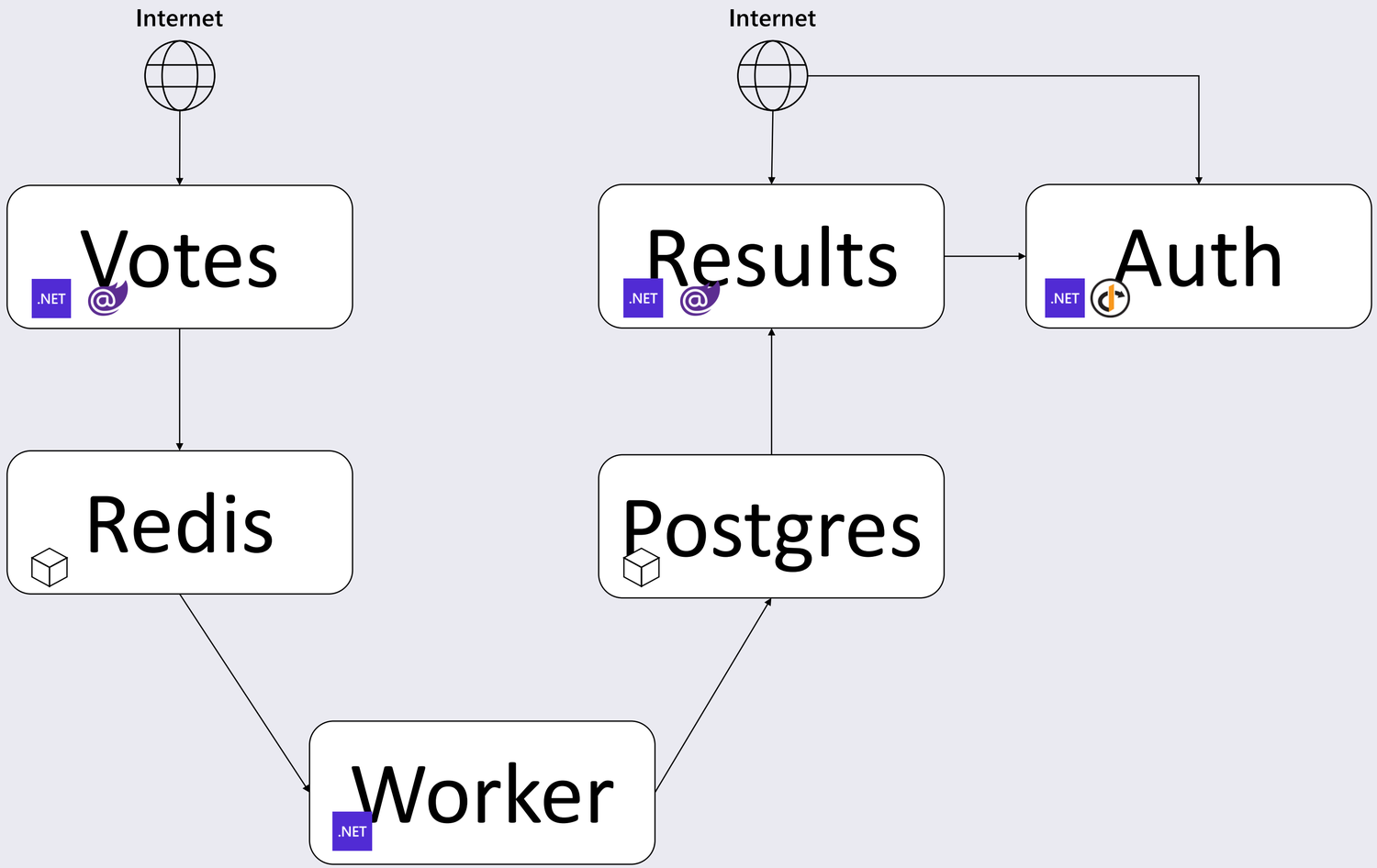
Getting started: Today

- Is Docker Compose the solution to some of these problems?
  - Docker is the answer to dependencies,
  - The docker ecosystem only partially solves the other problems we showed
  - Steep learning/getting started curve.
  - Docker is heavy during development and can make debugging hard if you are trying to run in a container on your dev machine.

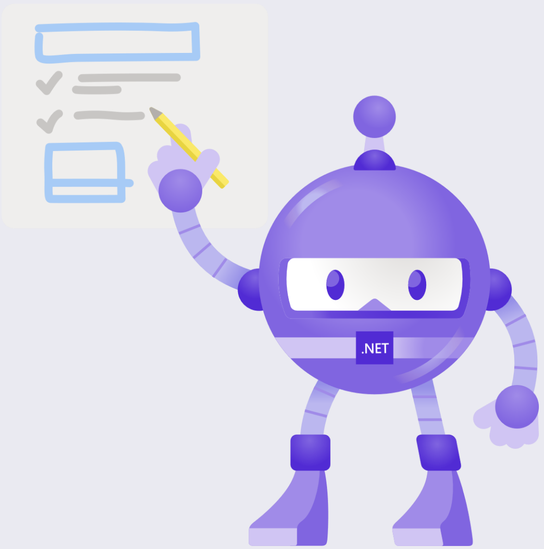
Getting started: Tomorrow

- Tye
  - Service Discovery via configuration conventions
  - Understands .NET project files
  - Dashboard for logs, metrics, etc locally
  - Can run Docker dependencies
  - Can dockerize and deploy your services to AKS
  - “Hot Reload”: Watch support

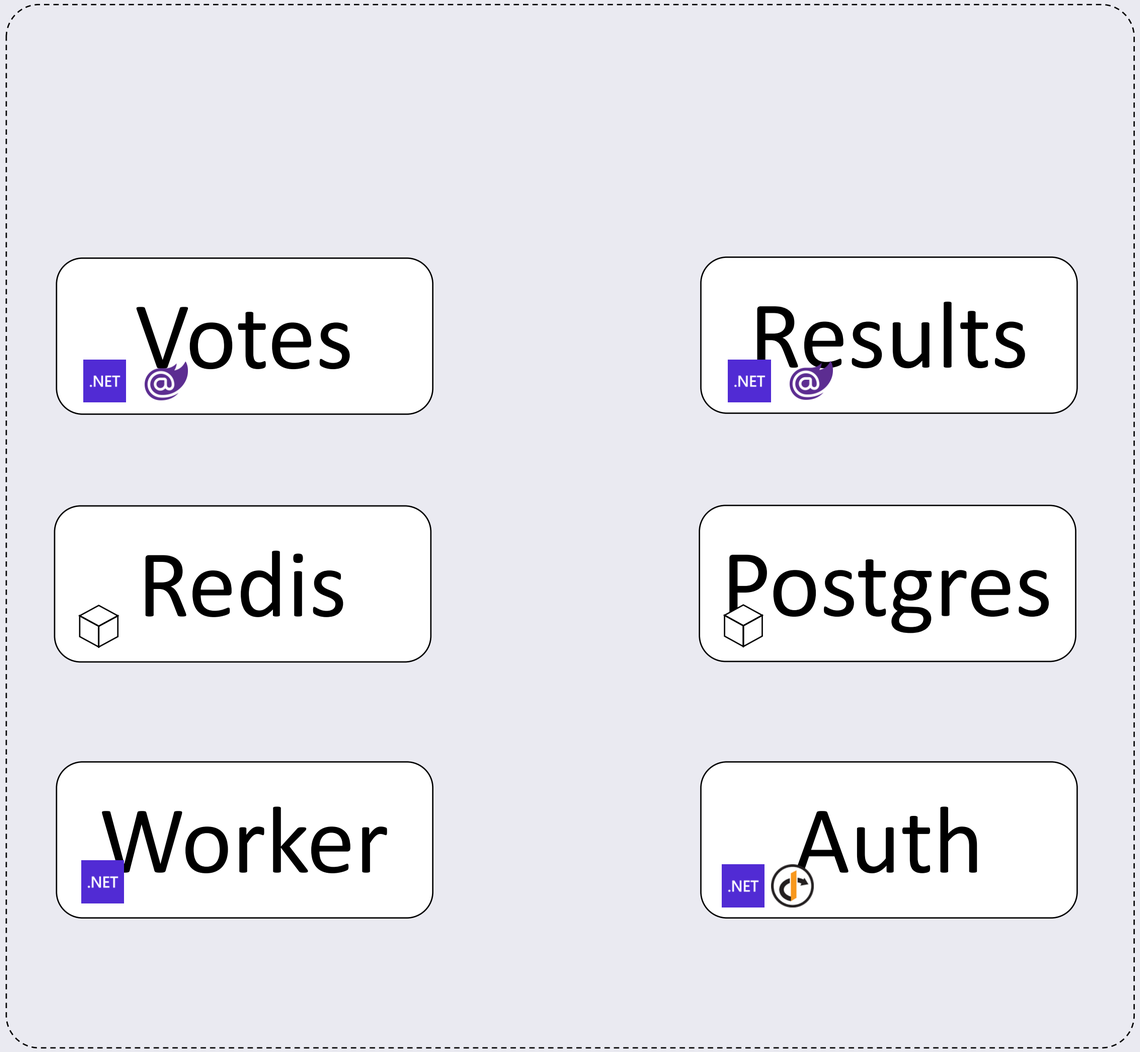
The App: Voting



Demo Voting App



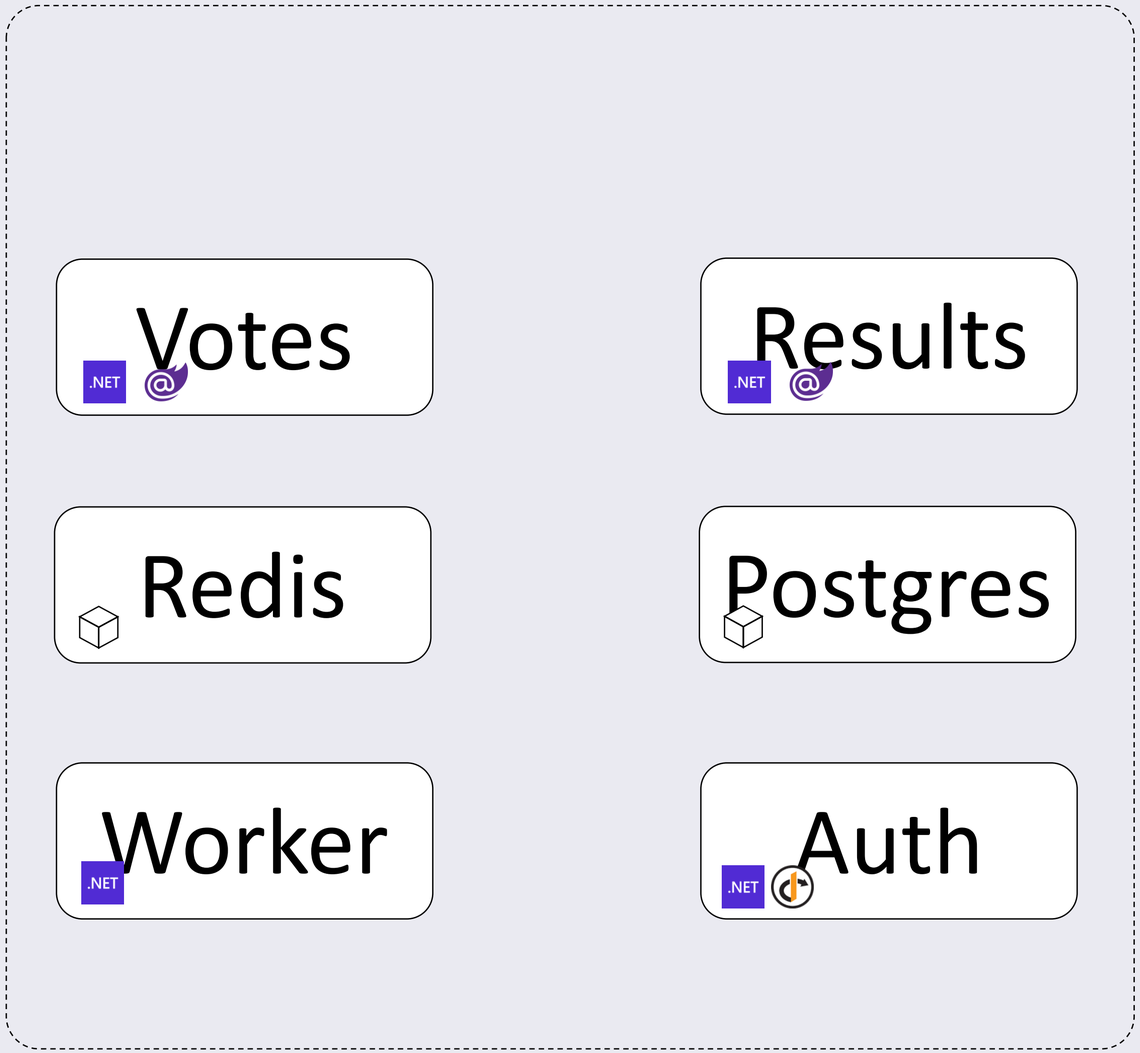
Deploying



Container Registry

Kubernetes

Deploying: Configure



Container Registry

Kubernetes

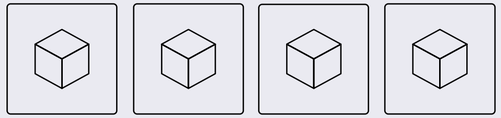
Secrets

Redis:ConnStr
Postgres:ConnStr

Deploying: Containerize

Local

Docker



Votes

Results

Worker

Auth

Container Registry

Kubernetes

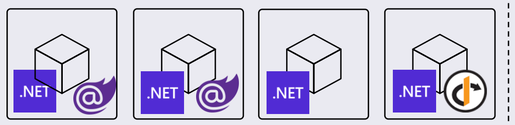
Secrets

Redis:ConnStr
Postgres:ConnStr

Deploying: Push

Local

Docker



Container Registry

Kubernetes

Secrets

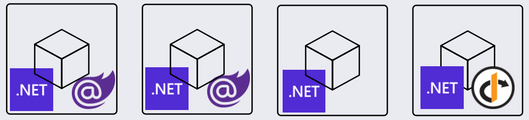
Redis:ConnStr
Postgres:ConnStr

Deploying: Deploy

Local

Docker

Container Registry

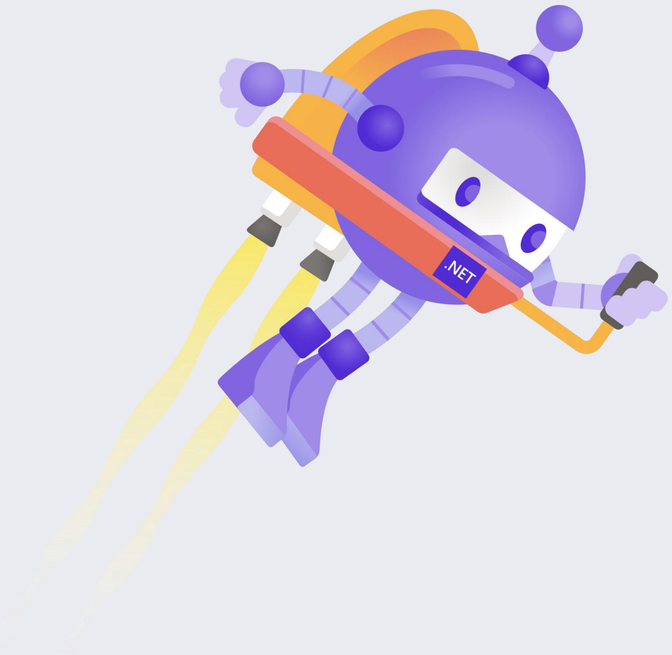


Kubernetes

Secrets

Redis:ConnStr
Postgres:ConnStr

Demo: Deploy



Thanks and …
See you soon!

Thanks also to the sponsors.
Without whom this would not have been posible.

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