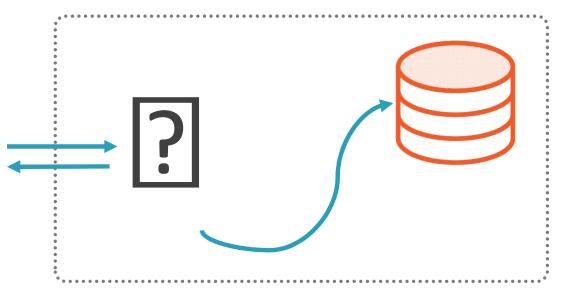
Modernizing .NET Framework Apps with Docker

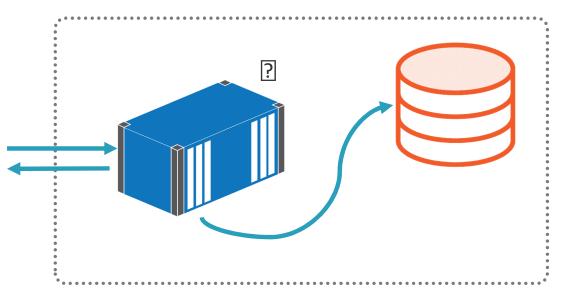
PACKAGING ASP.NET APPS IN DOCKER

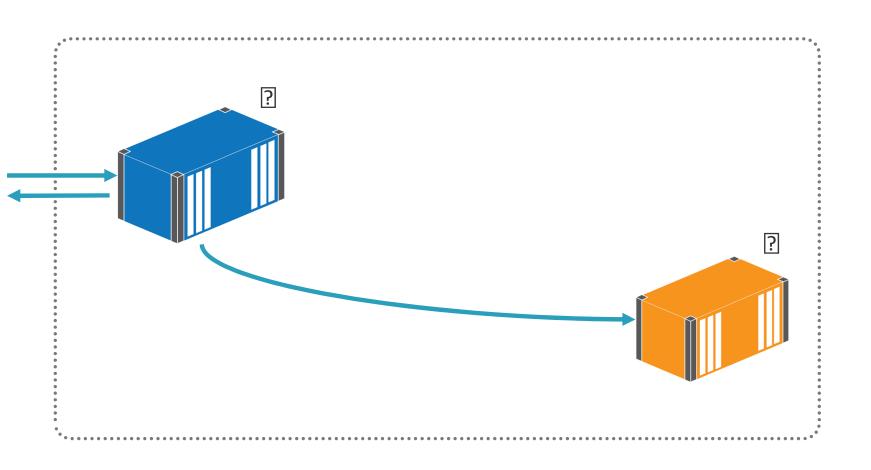


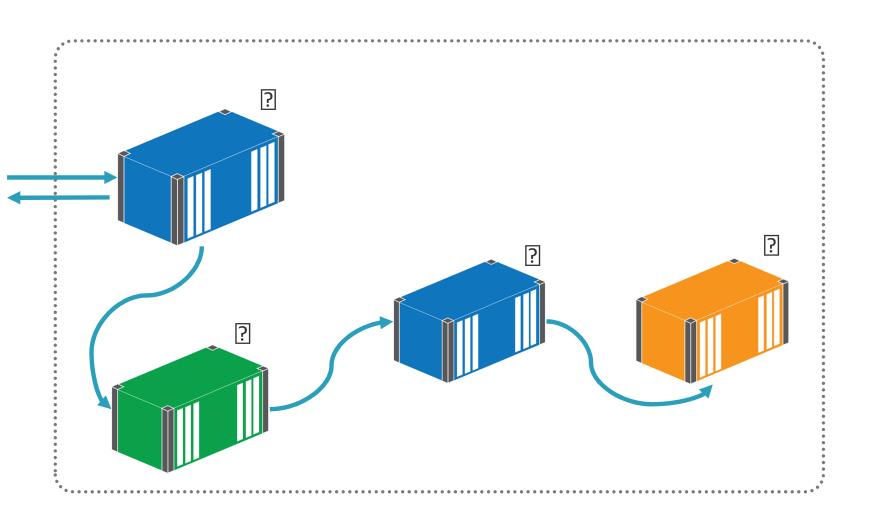
Elton Stoneman
DEVELOPER ADVOCATE

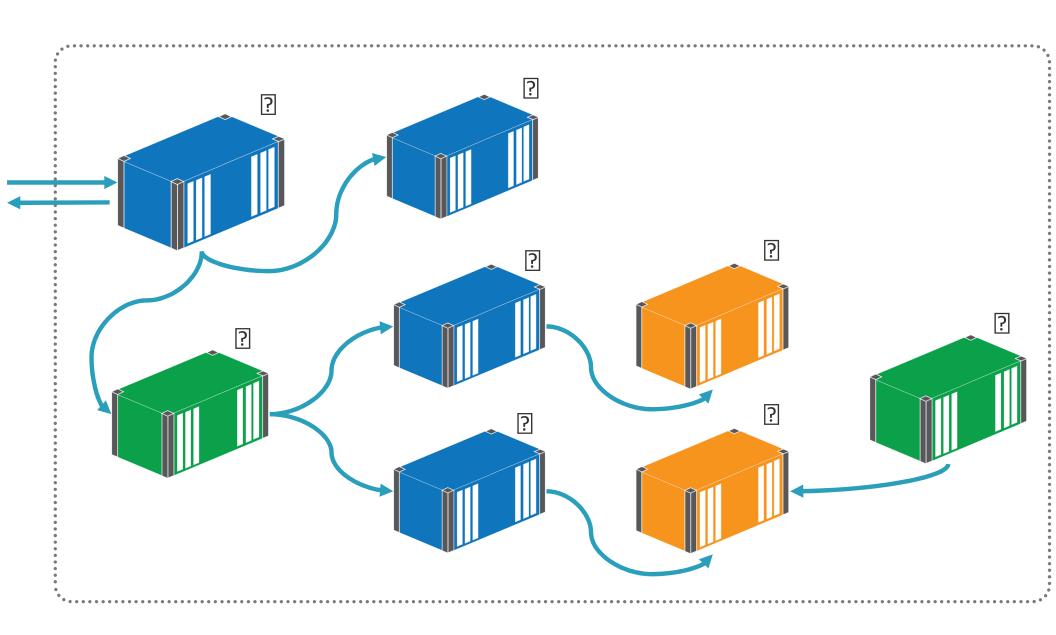
@EltonStoneman https://blog.sixeyed.com





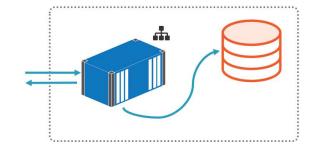




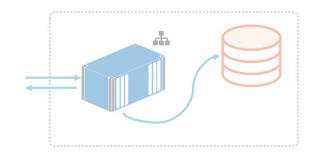


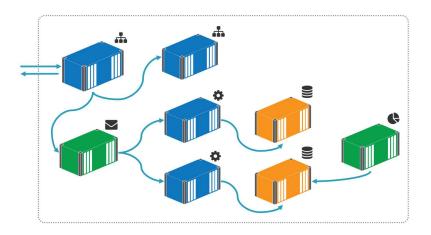
Packaging ASP.NET

Running in Docker



Packaging ASP.NET
Running in Docker





The Path to Production

HA with Docker Swarm



Dockerfiles



Images



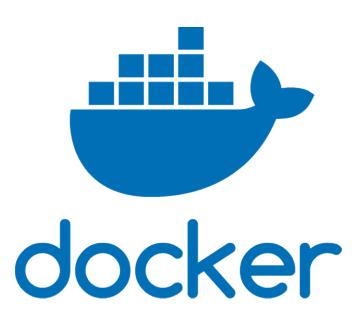
Containers

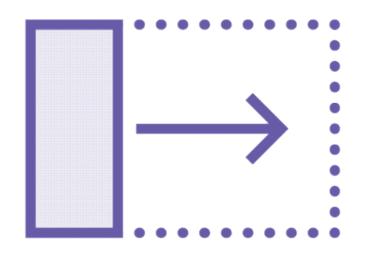


Registries



Swarms





Modernization is a spectrum

- From migration
- To re-architecture



Docker is part of your toolkit

- Containers mix well
- Connecting to external services



Container-first design

- Registries of packaged apps
- Drop-in instead of build



Environmental consistency

- Tools, processes and artifacts
- Consistent from dev to prod

Packaging ASP.NET
Running in Docker

Scaling performance
Async messaging

Self-service content

CMS in containers

Path to production

Docker swarm

SQL Server in containers
Integrating the database

Self-service analytics

Document database

Managing and monitoring

Multi-container solutions

Demo



Packaging ASP.NET apps in Docker

Writing the Dockerfile

- Using an MSI

Building the Docker image

Running the app in a container

FROM microsoft/aspnet:windowsservercore

COPY output/SignUp.msi .

RUN powershell Start-Process .\SignUp.msi -Wait

Dockerfile for ASP.NET

Deploying an MSI using PowerShell

docker image build `
 --tag webinar-app:v1 .

Building the Docker image **Executing the steps in the Dockerfile**

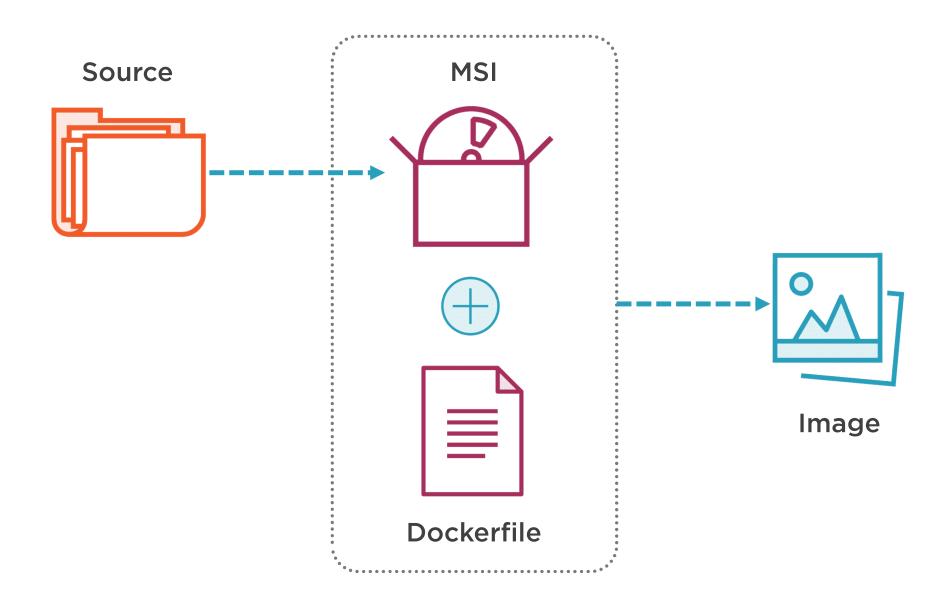
docker container run `
 --detach --publish 80 `
 webinar-app:v1

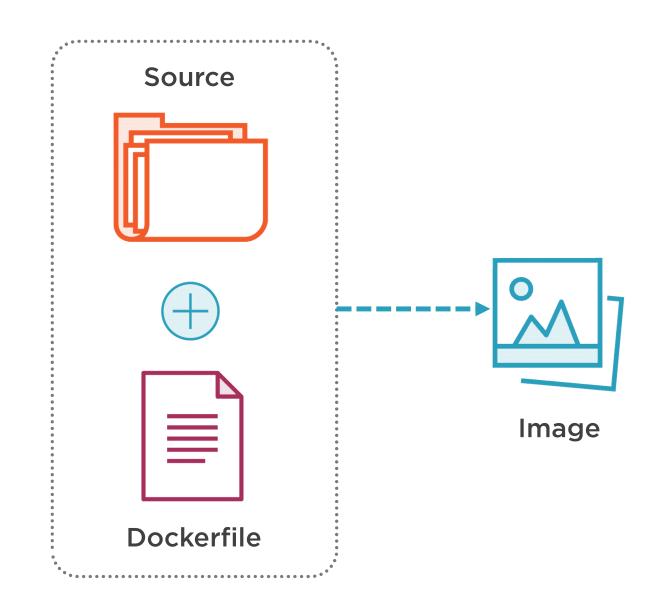
Running the app in Docker Starting a container from the image

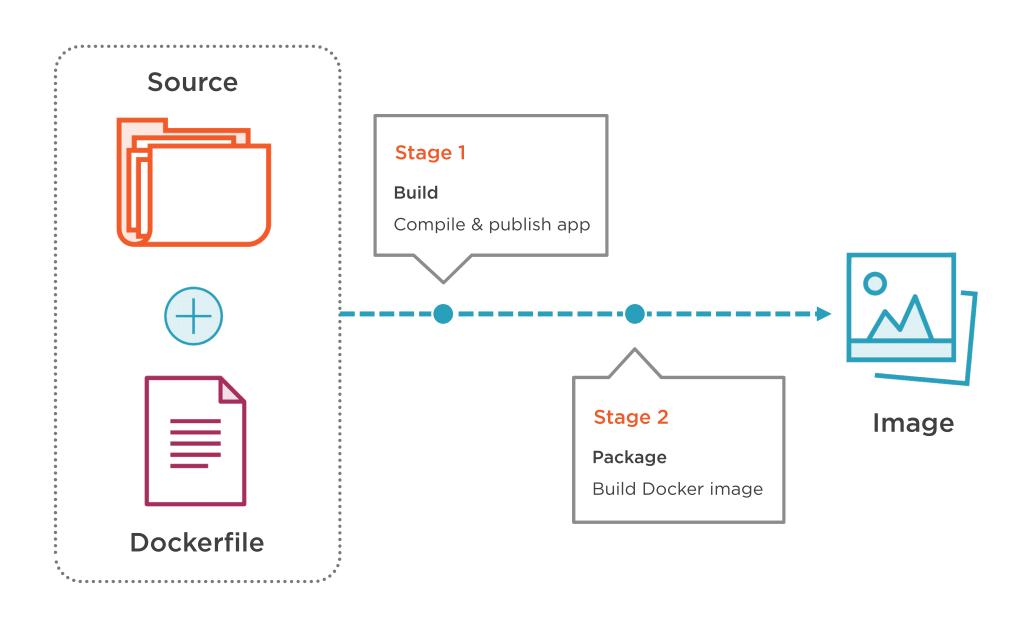
FROM microsoft/aspnet:windowsservercore

COPY output/SignUp.msi .

RUN powershell Start-Process .\SignUp.msi -Wait







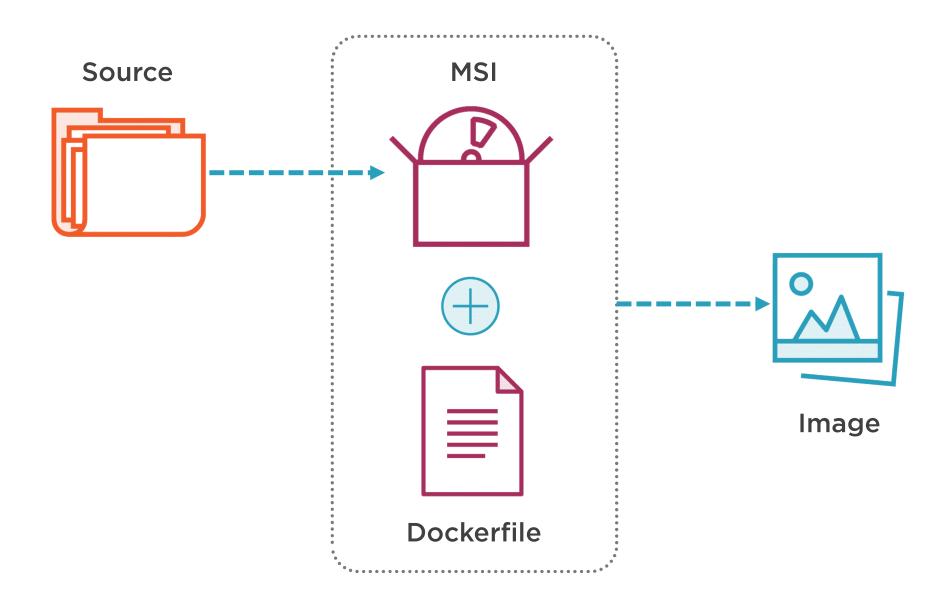
Demo

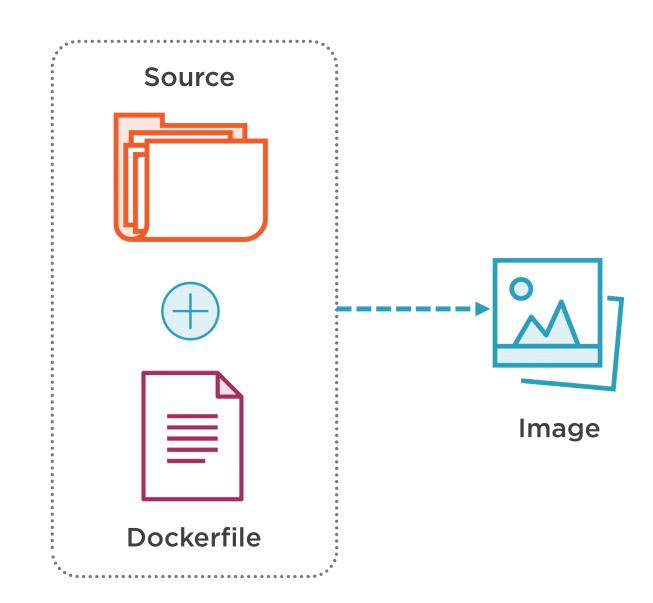


Packaging ASP.NET apps in Docker

Multi-stage Dockerfile

- Compile from source
- Package in Docker





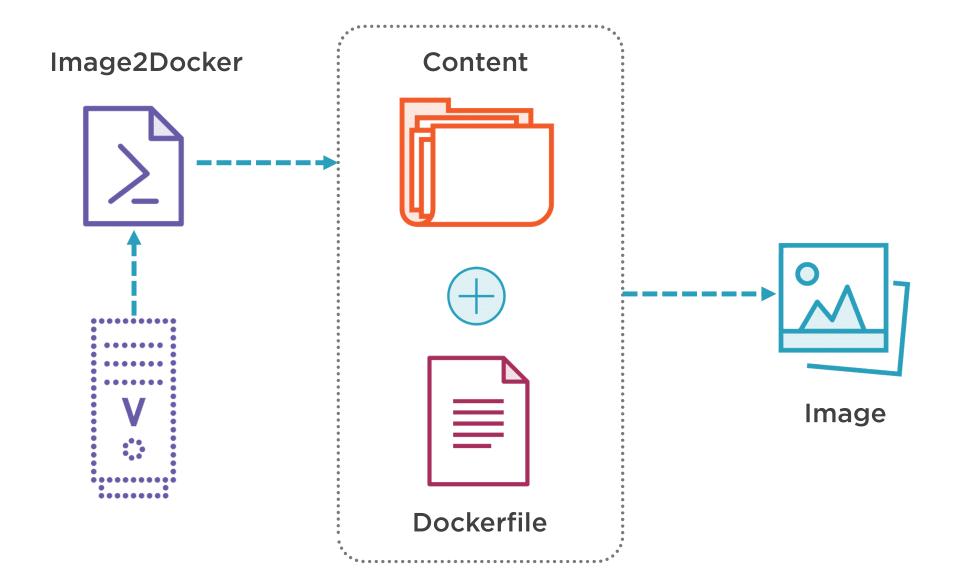


Image2Docker

https://is.gd/image2docker

Migrate as-is Adopt platform idioms Adapt to new runtime Extract key features And renew * https://is.gd/about_mta

Portability | Security | Efficiency

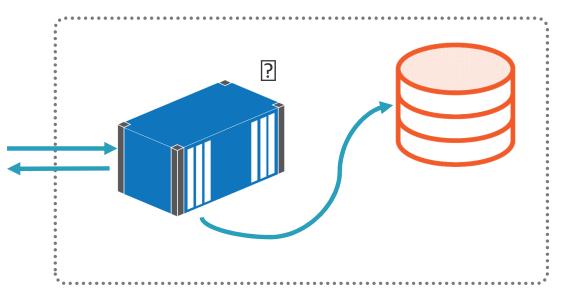
Image2Docker

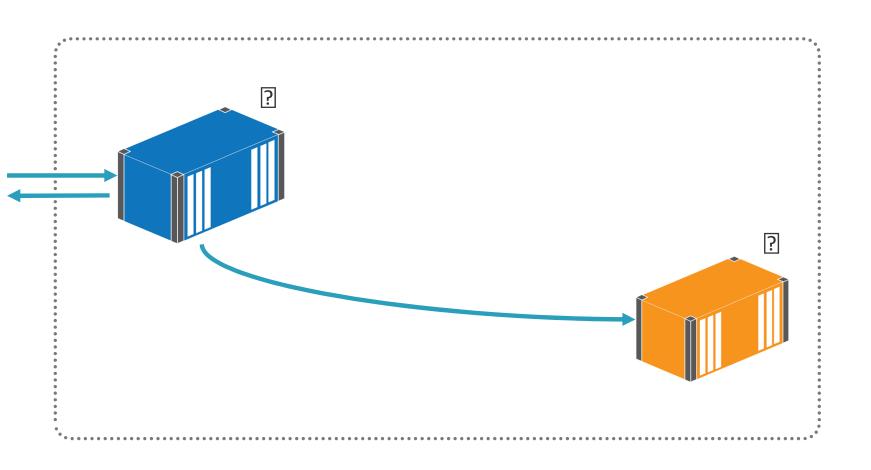
MSI-based Dockerfiles



Docker is part of your toolkit

- Containers mix well
- Connecting to external services





Coming Next



SQL Server in Docker

- Packaging schemas in images
- Running databases in containers
- Using containers as deployment tools