



DevContainers What They Are and Why You Need Them

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Agenda

Getting Started

What is a Developer Container

Build Containers

Customize the Containers

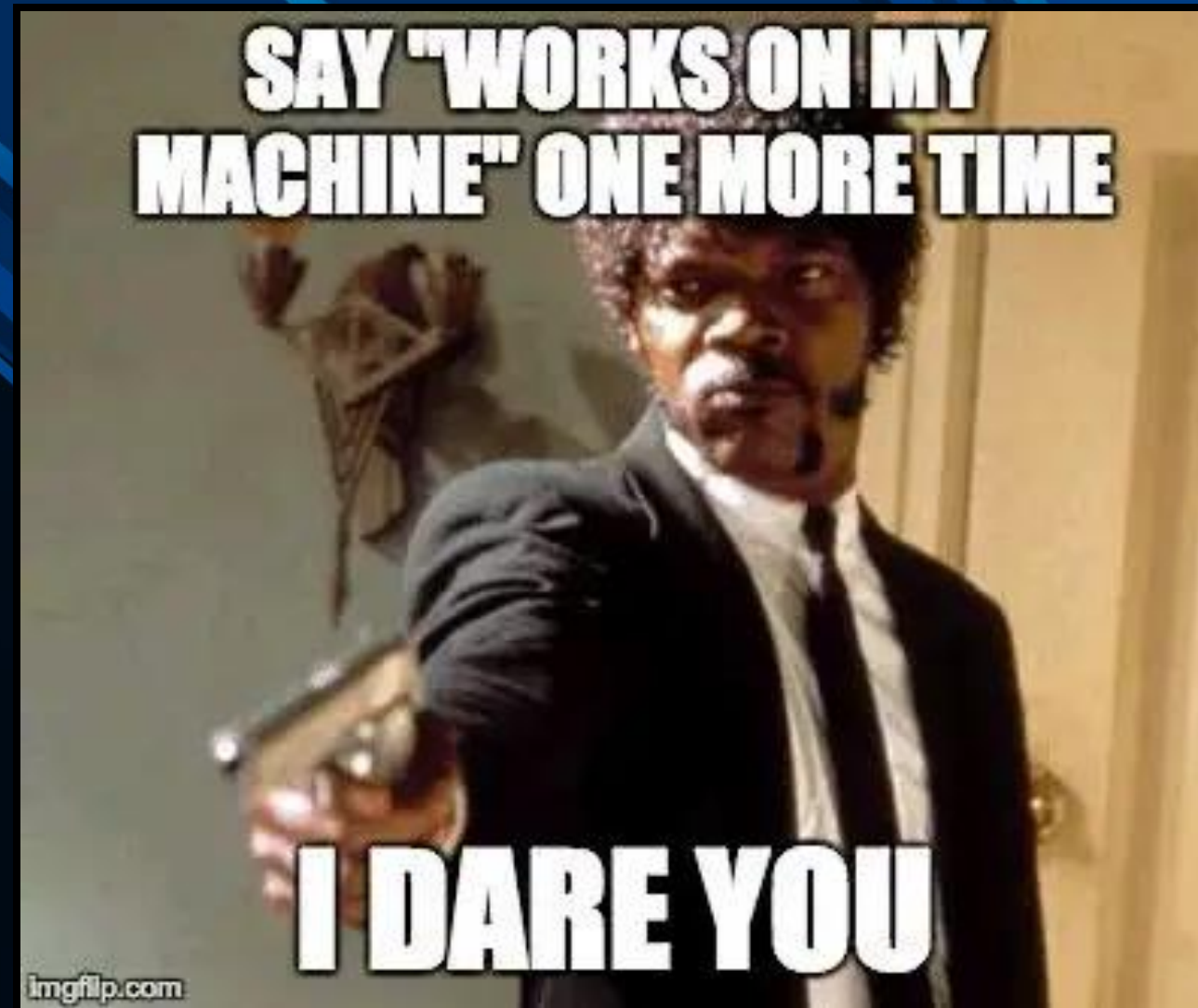
Using Container in VS Code

Multiple Containers

Opening on GitHub

Getting Started

Why?



Requirements

Docker Desktop (macOS/Windows)

Docker CE/EE (Linux)

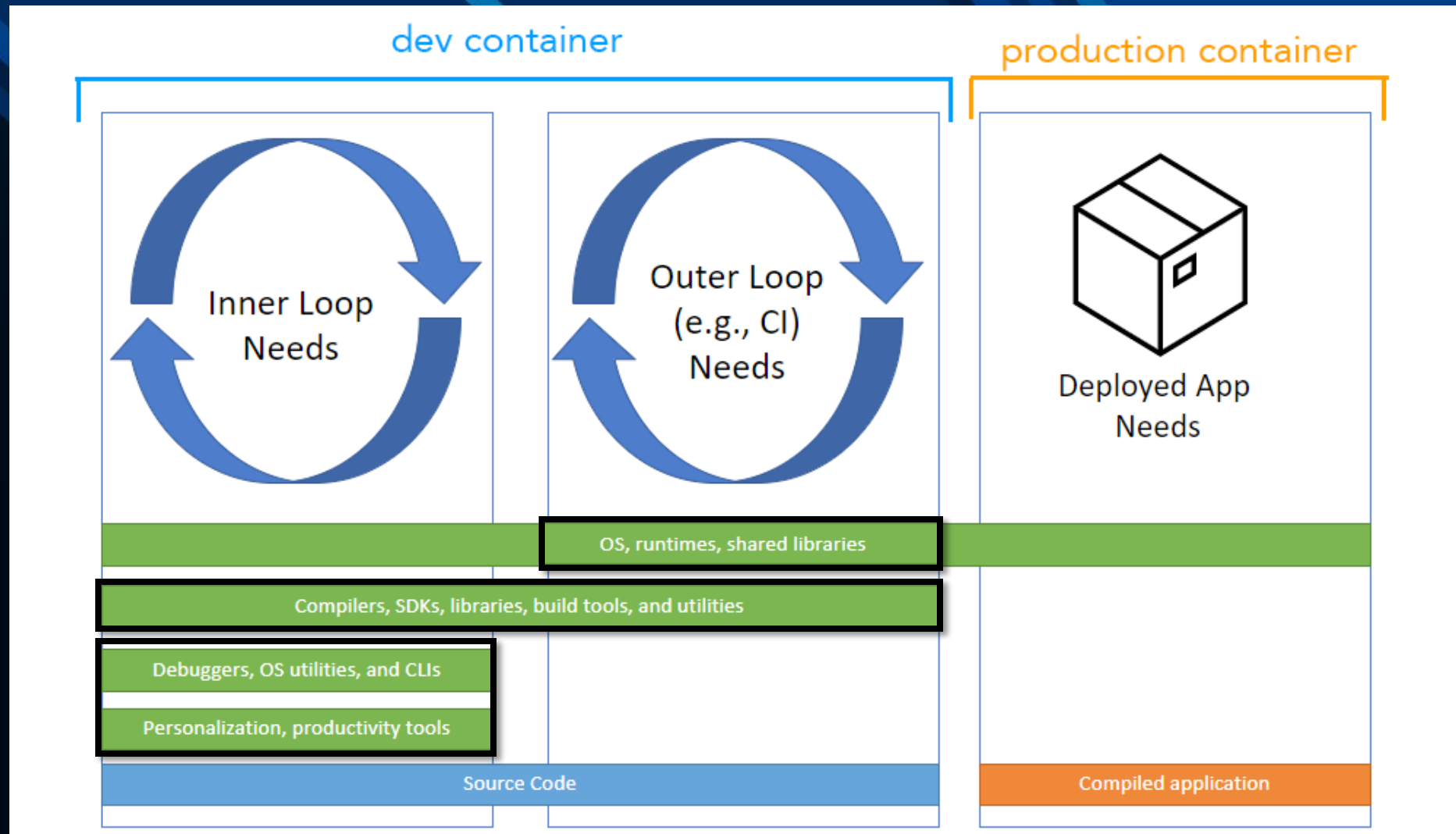
Visual Studio Code

Dev Containers Extension

The background is a solid dark blue color. Overlaid on this are several diagonal lines of varying shades of blue, ranging from a medium blue to a lighter, almost white blue. These lines are oriented from the top-left towards the bottom-right, creating a sense of motion and depth. The lines vary in thickness and are slightly offset from each other, giving the impression of multiple layers or a 3D effect.

Build Some Containers

Development vs. Production



What Makes Up the Developer Container

Developer Container

Productivity
Tools

Debuggers

Personalization

Feature

Compiler

Build Tools

Template

Operating System

Libraries/SDKs

Templates (Images)

Alpine

Debian

C#

C# and MS SQL

Java

Jekyll

Ruby

... and more

<https://containers.dev/templates>

Features (Add-ons)

AWS CLI

Azure CLI

Dotnet CLI

Hugo

PowerShell

NPM

... and more

<https://containers.dev/features>

Build a Developer Container

DevContainers.json Common Settings

Settings	Usage
name	A name for the dev container displayed in the UI.
features	A Dev Container feature id and related options to be added into your primary container.
forwardPorts	An array of port numbers or “host:port” values that should always be forwarded from inside the container.
customizations	Product specific properties
remoteUser	Overrides the user that devcontainer.json supporting services tools / runs as in the container (along with sub-processes like terminals, tasks, or debugging).
postCreateCommand	This command is the last of three that finalizes container setup when a dev container is created.
postStartCommand	A command to run each time the container is successfully started.

Source: https://containers.dev/implementors/json_reference/

Remember

IT WORKS ON MY MACHINE

IT'S A DEVOP PROBLEM NOW

imgflip.com



Q & A

Resources

Site	Url
JosephGuadagno.NET	https://jjg.me/mysite
jguadagno.github.io	https://jjg.me/blog_repo
Blog Post	https://jjg.me/container_post
Docker Desktop	https://www.docker.com/
Visual Studio Code	https://visualstudio.microsoft.com/
Remote Containers Extension	https://jjg.me/container_ext
Available Dev Container Features	https://containers.dev/features

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