

From sketch to Kubernetes

A developer's journey into infrastructure



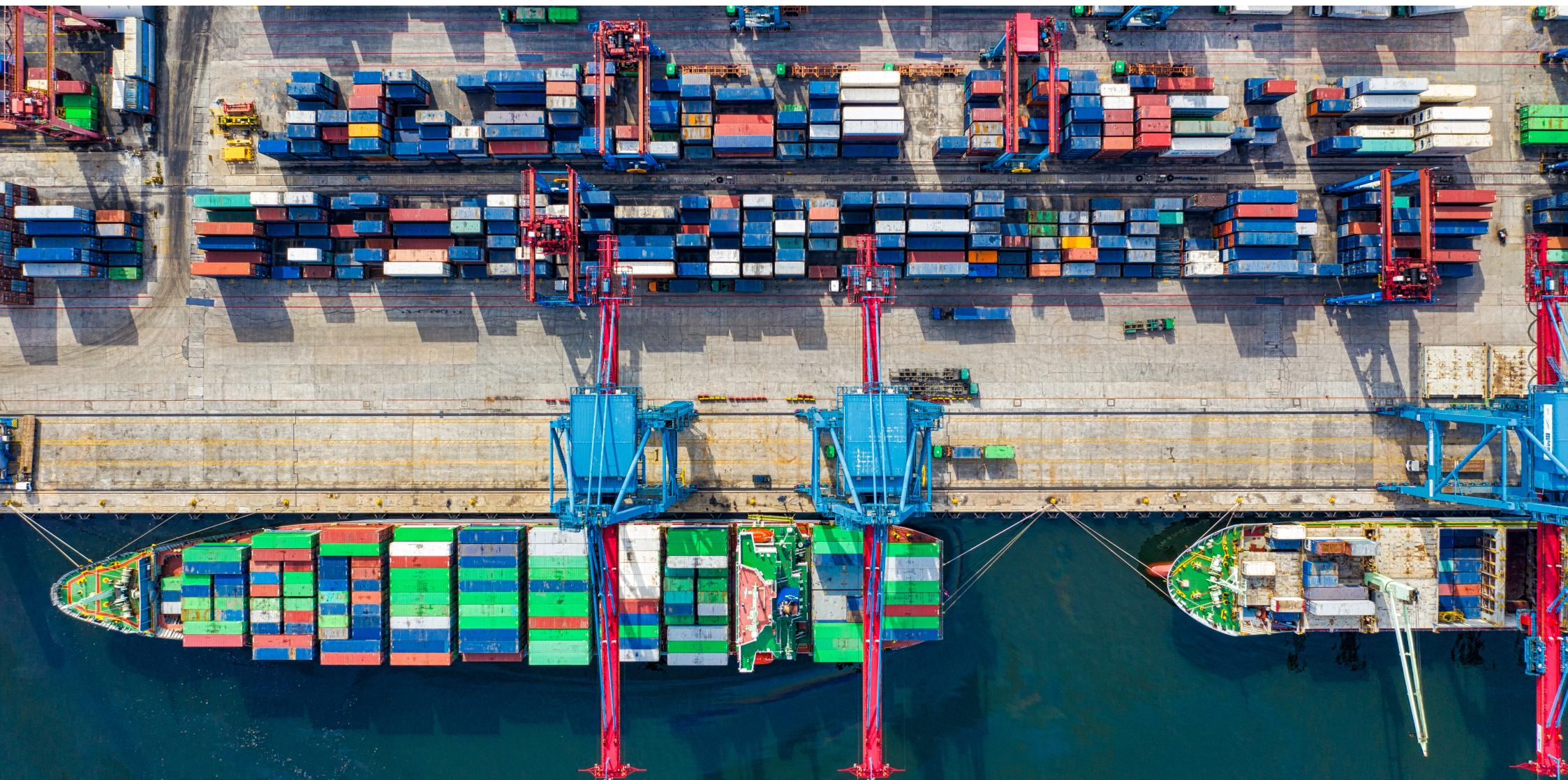
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DESIGN AND CODE

- Code first;
- Run locally
- Test locally
- Deploy directly, moving files.



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- Same code, with a DOCKERFILE or Docker-Compose
- Find and fix
 - Dependencies, files, ports, accesses
- Test in multiple environments
- Deploy packages/images, manually or automated

DO

DOCKERIZE

Faster configurations

Faster deployments

If you can rely on external security

Low Storage

Command/Web Applications

DO NOT

DOCKERIZE

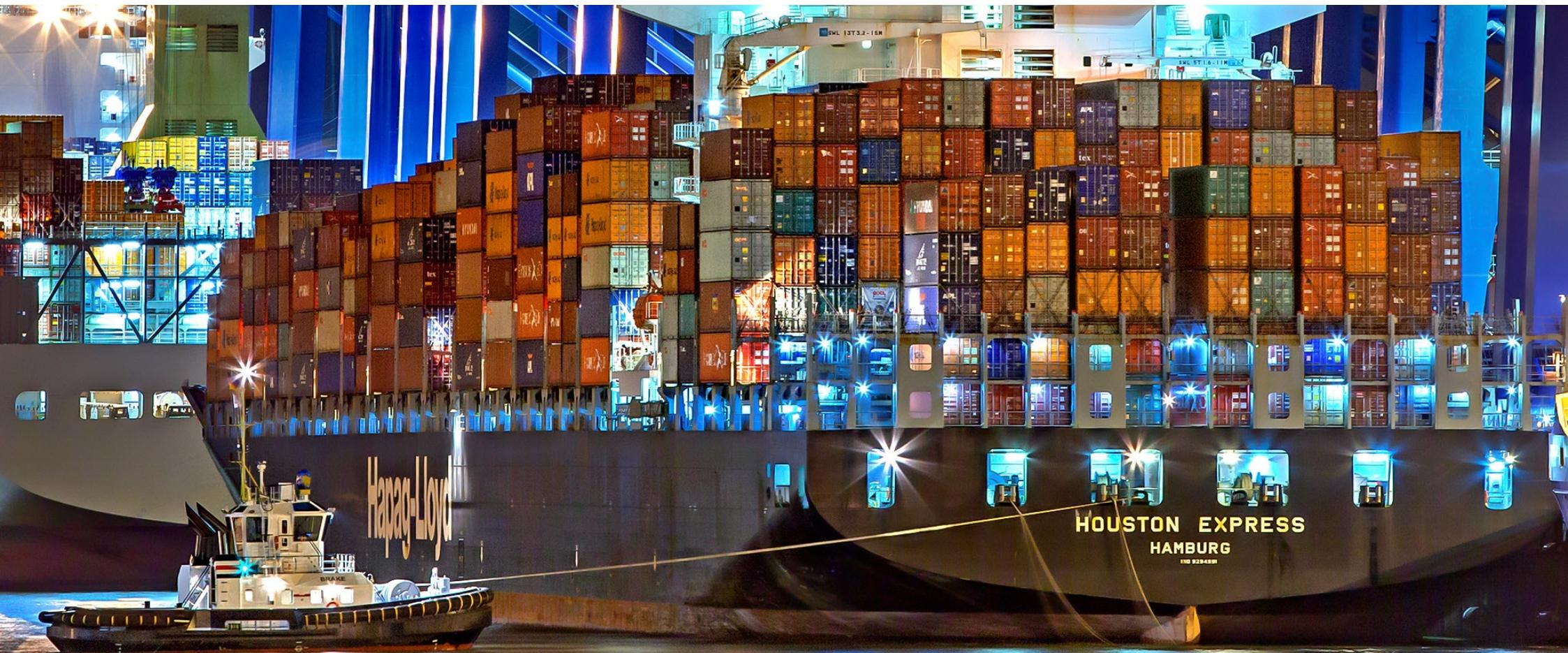
Faster and tuned application/OS

Built-in security

If you can rely on external security

High storage/file usage

Easy, simple and fast maintainability



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- Think first, map and measure your needs
- Provisions
 - Azure Kubernets Cluster
 - Azure Container Registry
 - Azure DevOps Pipelines (Github/Bitbucket integration)
- Automated deploy

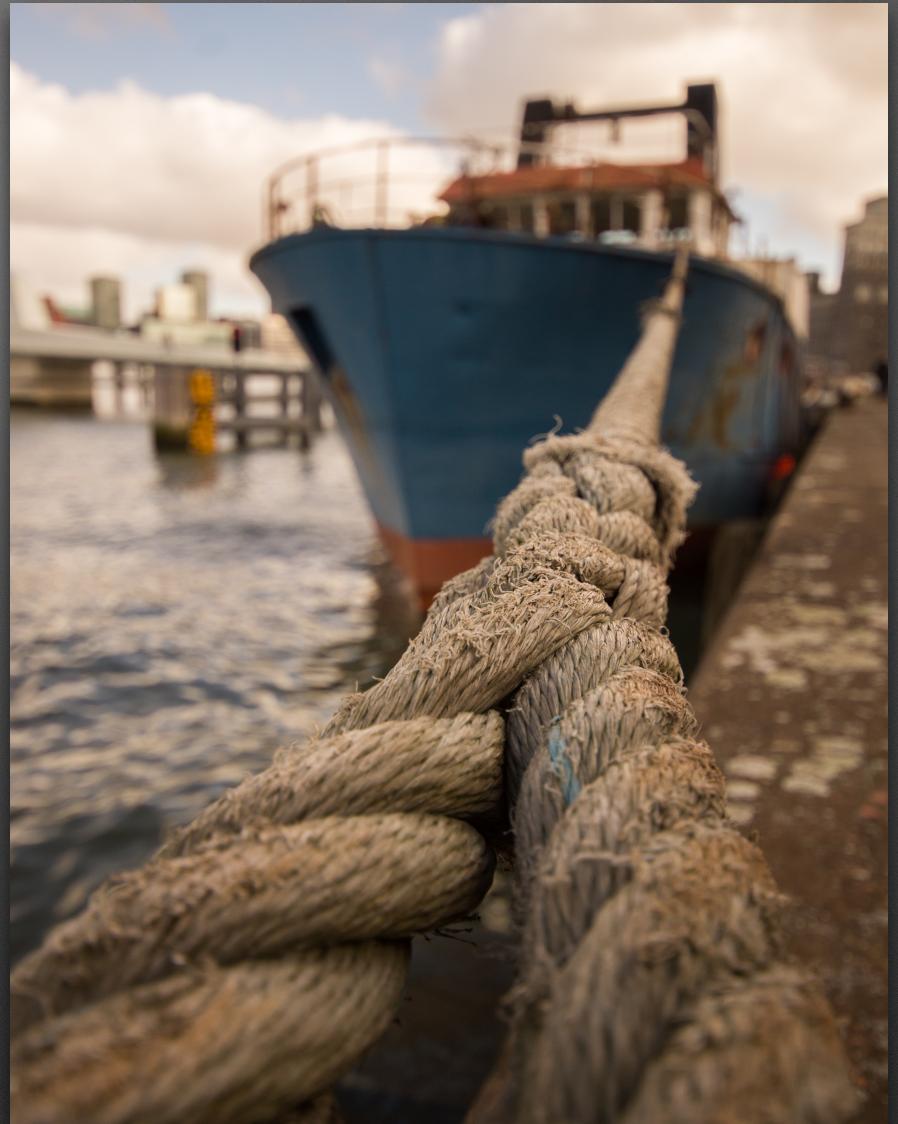
Stay attached

Simple/Lightweight Applications (Monolithic)

Security Concerns

Replication hell

Culture and Maturity





SAIL FAST

QUESTIONS

Bibliography

<https://docs.microsoft.com/en-us/dotnet/core/docker/build-container>

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<https://docs.microsoft.com/en-us/azure/aks/cluster-container-registry-integration>

<https://docs.microsoft.com/pt-pt/azure/aks/kubernetes-walkthrough-portal>

<https://github.com/MicrosoftDocs/pipelines-dotnet-core-docker>

<https://www.freecodecamp.org/news/7-cases-when-not-to-use-docker/>

<https://techbeacon.com/devops/one-year-using-kubernetes-production-lessons-learned>

**YOU
GOT
THIS**