

SOFECTA IN NUTSHELL

COMPANY

A software company specialized in scalable and businesscritical systems

The staff consists of industry experts, each with 15+ years of experience

Company founded in 2017, office in Helsinki, staff owned Partnerships:

















TOOLS























10101 01010 00100







DIGITAL PRODUCTS



SUPPORT SERVICES

MANAGED INTEGRATIONS

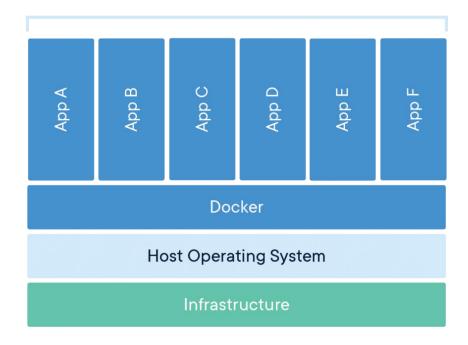
DIGITAL TRANSFORMATION



Containers? Refresh my memory!

- Standard unit of software
- Operates on an image that holds all necessary system libraries, tools and settings
- Code is packaged along with all of it's dependencies
- Works as a standalone
 - Does not mean it could not reference other external resources
- Transferable from one system to another
- Bring the platform with you
 - Typically running as Linux-based platform

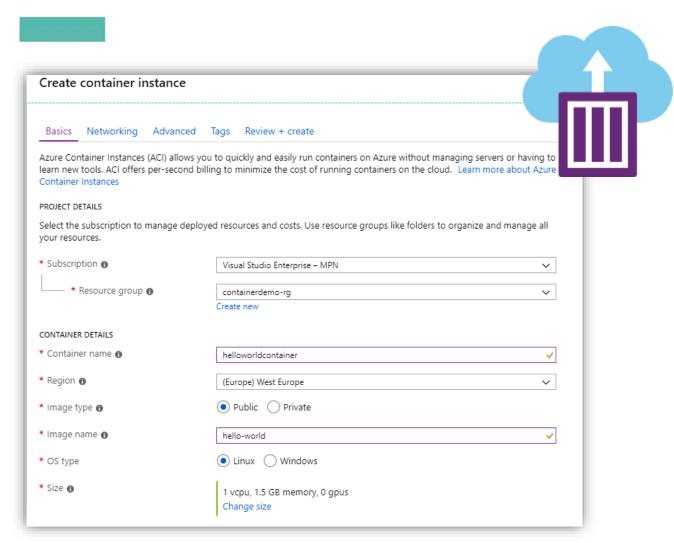
Containerized Applications



I know my way around containers. How do I host them?

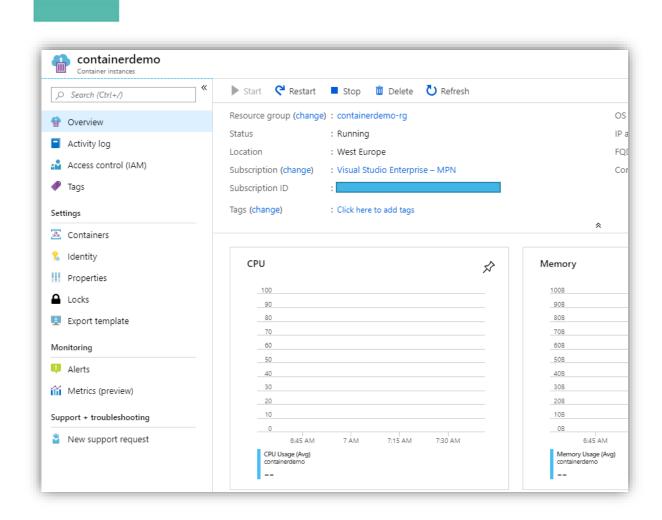
Easiest way to get started is Azure Container Instance. It's a no-nonsense hosted model for getting your singular containers up and running.

You just need to give it a name and few options to get started.



I know my way around containers. How do I host them?

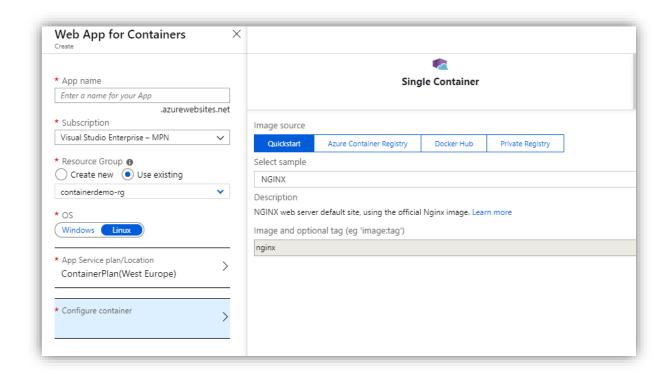
You get a straightforward container with metrics, alerts and monitoring.



But what if I wanted more?

Well, that is a start. What if you need more? Web app for containers gives you more options

Custom domain? Integrated CI/CD-pipelines? Integrated AAD authentication? SSL Certificates?

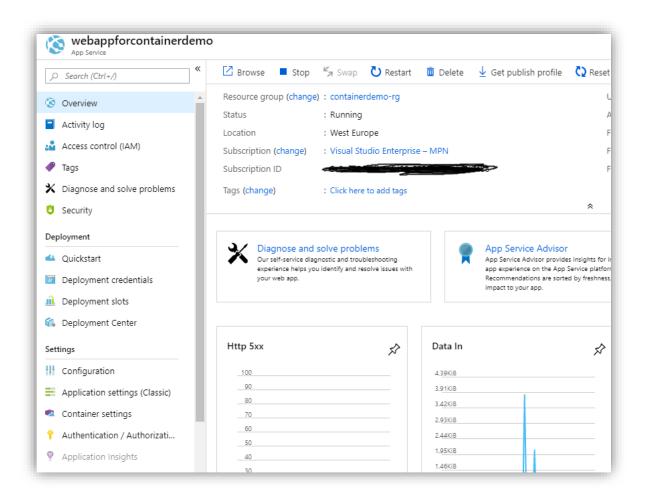




But what if I wanted more?

With Web App for Containers, you get all that and more.

Most of the functionality provided for regular app services is available for you.



But what about background logic in the containers?

For dynamic invocation and on-demand workloads you can use Azure Functions to host your containers



For running large-scale cpuintensive processes. Such as financial modeling, rendering, image processing and more you can run your containers on Azure Batch.



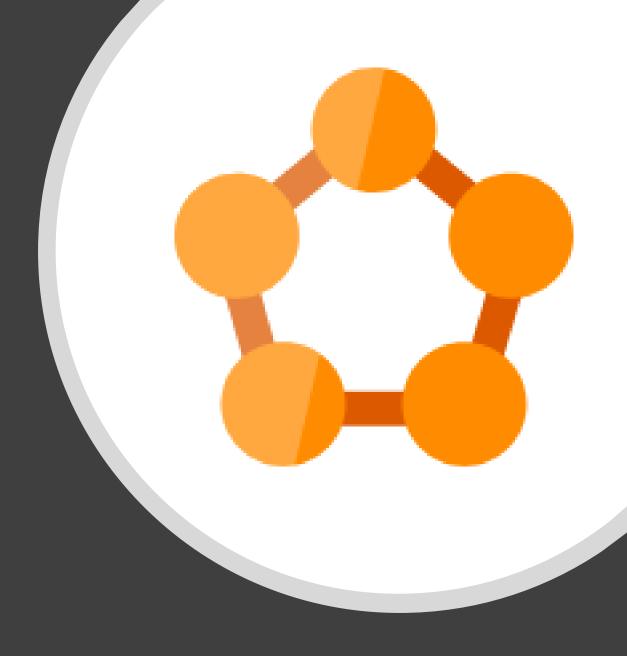
Container orchestration

Container lifecycle management is commonly referenced to as orchestration. It's used to control and automate tasks, while providing redundancy and monitoring. Some typical features for orchestrator include:

- Provisioning and deployment
- Scaling and redundancy
- Monitoring
- Isolation
- Compared to previous solutions, these are usually used to run larger environments consisting of multiple containers and more intricate network topologies.

Service Fabric

- Besides the basic orchestration capabilities, it also provides it's own paradigms for scalable software
- Optimized for microservices
- Microsoft originally developed it as internal tooling for powering many of Azure's core services.
- Use the same tooling and UI to operate on both applications and containers
- Linux version is open source. Windows-version work in progress.
- If you want to utilize it's Actor-models, you should be looking into it. But AKS is better option for purely container-based software.



AKS

- Provides a managed Kubernetes environment
 - Kubernetes is world's most widely known and used orchestration service.
- Neatly integrates to Azure laaS offerings.
- Large community, and shared knowledge is plentiful.
- Production-grade
- Logical isolation allows multiple teams to utilize the same clusters for operations.
- Dev Spaces is a feature of AKS which allows developers to quickly provision their own namespace within AKS and have a complex microservices running within moments.





Azure Container Registry

Provides a private hosted registry of container images in your own subscription and control.

If you don't have paid subscription to Docker Hub and want to keep the images private

Well supported by most of Azure's services.

Recap

- Many ways to host your containers.
- Choose the ones fitting your use cases



App Services



Batch accounts



Container instances



Container registries



Function Apps



Kubernetes services

