



Deploy Web Application with Azure Container

Group 5

Report presentation

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01.

Introduction and overview

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Container

Container

A container is a standard unit of software that packages up code and all its dependencies.

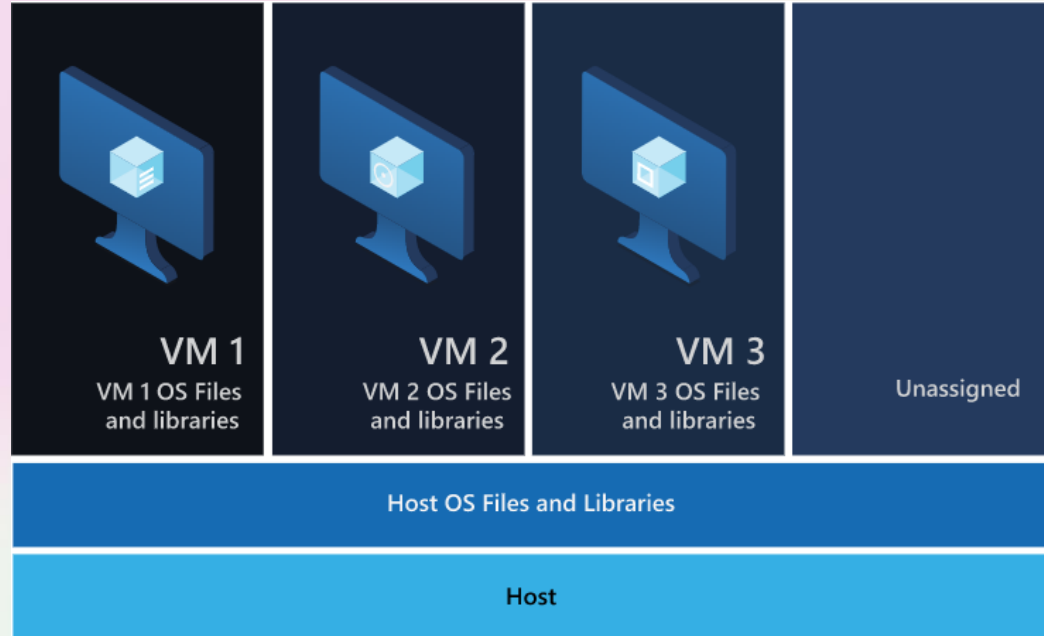
Image

A container image is a package of software that includes everything needed to run an application.



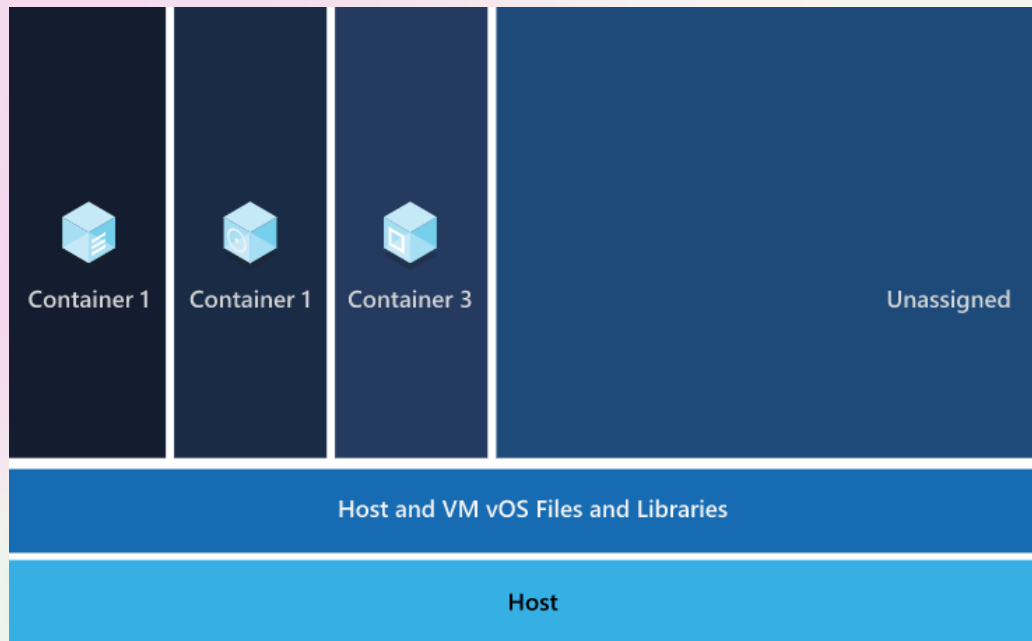
Container

“Containerized software will always run the same, regardless of the infrastructure.”



Virtual Machine Structure

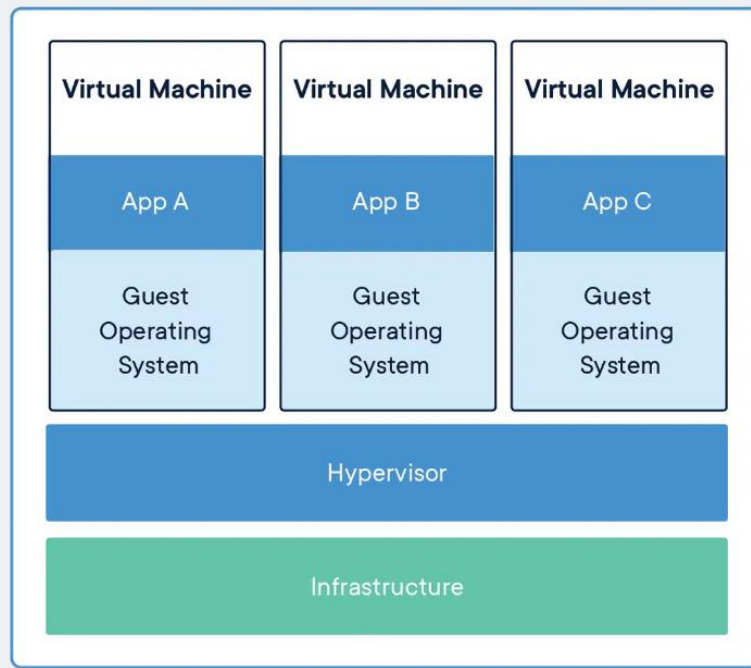
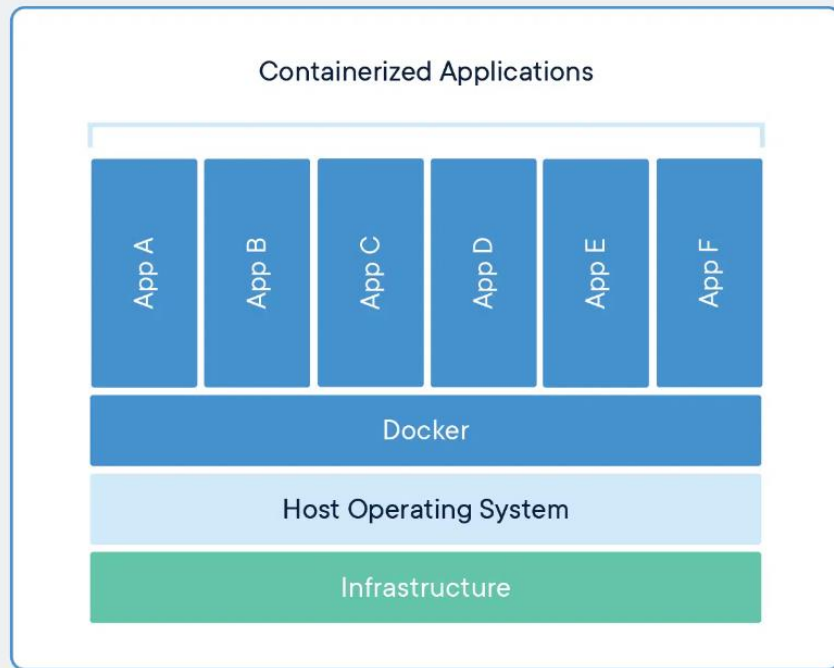
VMs virtualize the underlying hardware so that multiple operating system (OS) instances can run on the hardware.



Container Structure

Multiple containers can run on the same machine and share the host OS kernel with other containers.

VMs vs. Container



Azure

Azure is a cloud platform. Build, run, and manage applications across multiple clouds, on-premises, and at the edge, with the tools and frameworks.



Container Registry

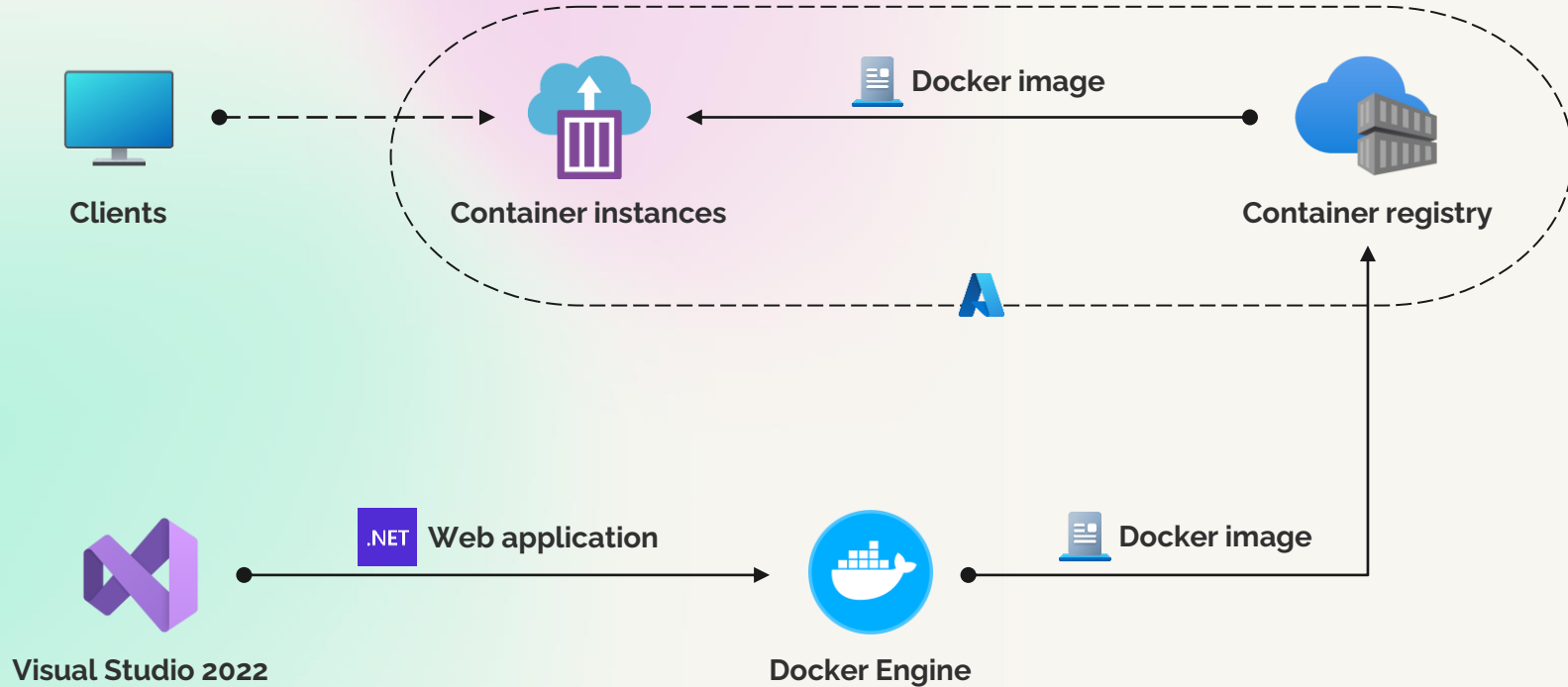
Create and maintain Azure container registries to store and manage your container images.



Container Instances

Run containers directly on the Microsoft Azure public cloud.

Operation





02.

Implementation and demo

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Topology



Azure Virtual Network

IP (private): **10.0.0.4/16**

VN: **qtmvn**



Internet

IP (public): **20.253.214.244**

DNS: **qtmg5dns.westus.azurecontainer.io**

Ports exposed: **80**

Port: **80**

qtmacr.azurecr.io
/qtmgroup5:latest

Port: **5000**

qtmacr.azurecr.io
/otherqtmg5:latest

Container group



Azure virtual machine

Demo

Create an ASP.NET web app.
with VS and containerize it.

Web app.



Create an ACR and publish
container image to Azure.

ACR



Create an ACI and link the
image to deploy the web app.

ACI



Configuration

Config the Dockerfile to
containerize the web app.





03.

Result and conclusion

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Thanks!

Thank you for your attention.

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