



agenda »

Intro to containers

Azure VM deployment

Portainer

Traefik

# GET STARTED WITH WINDOWS CONTAINERS USING PORTAINER AND TRAEFIK ON AN AZURE VM

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# Intro containers / Docker



# QUICK INTRODUCTION TO

## Containers and images

- What is docker?

Most widely used containerization platform for Windows with a lot of usage on Linux/Mac as well

- What is a Docker container and a Docker image?

- An image is a template with the minimum amount of os, libraries and application binaries needed
- A container is an instance of an image with an immutable base and it's changes on top
- A container is NOT a VM, you especially don't have a GUI and nothing you can connect to with RDP!
- Images have tags for versioning



# QUICK INTRODUCTION TO

## Host, registry and repository

- What is a Docker host?

The (physical or virtual) machine where the containers are running

- What is a Docker registry?

A place where you and others can upload (push) and download (pull) images. Docker offers Docker Hub as free registry, but there are a lot of others like the Azure Container Registry (ACR)

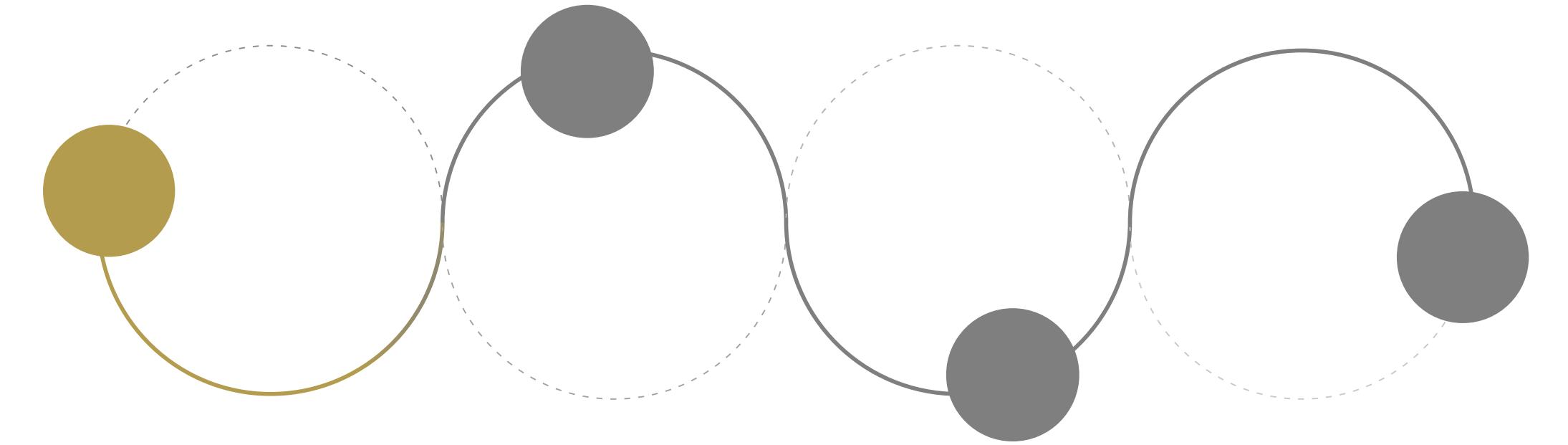
- What is a Docker repository?

A part of a registry (like a “subfolder”) owned by a person or company that contains the images



# QUICK INTRODUCTION TO

Flow to a running container



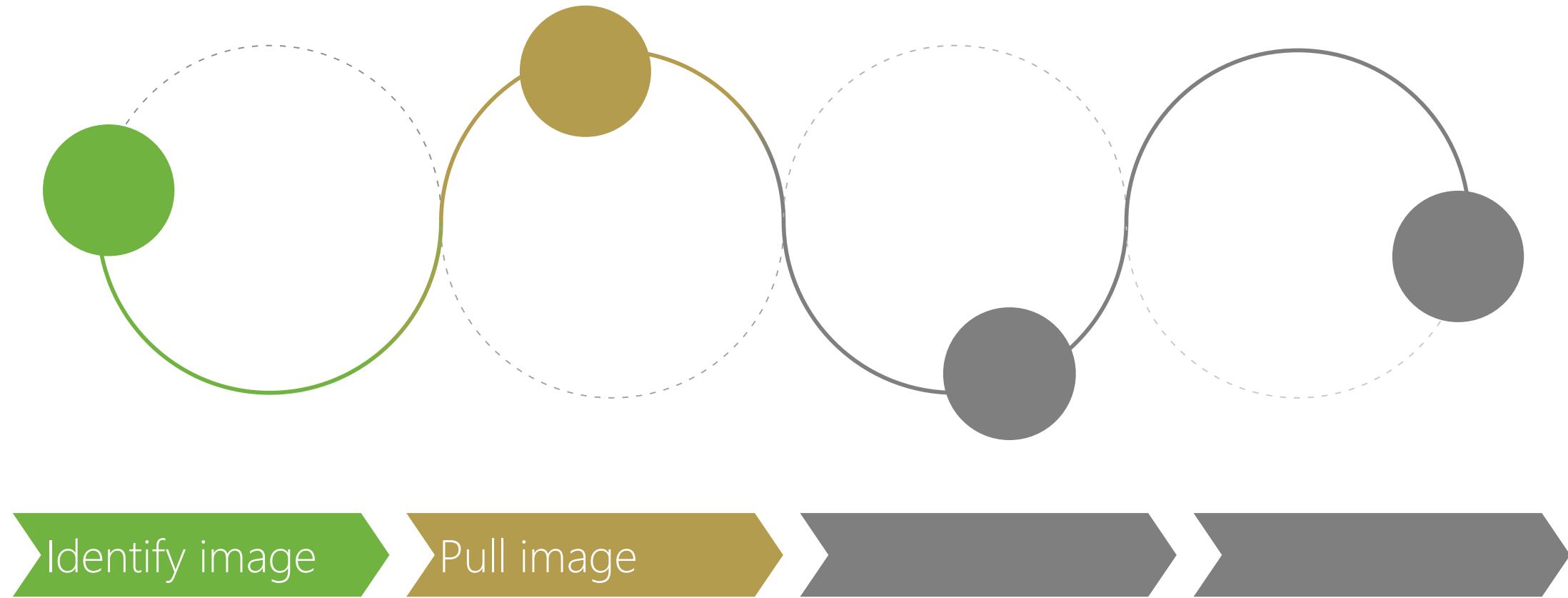
Identify image

[mcr.microsoft.com/windows/servercore/iis:windowsservercore-2004](https://mcr.microsoft.com/windows/servercore/iis:windowsservercore-2004)



# QUICK INTRODUCTION TO

Flow to a running container

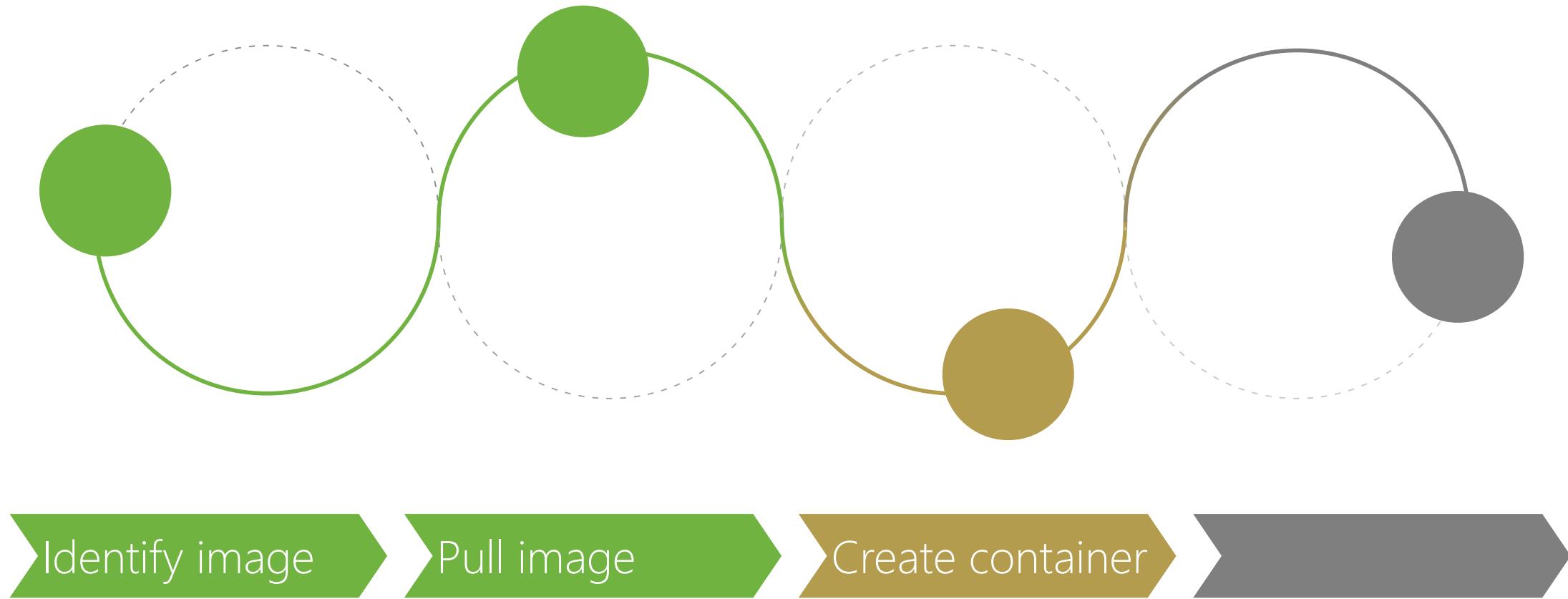


`docker pull mcr.microsoft.com/windows/servercore/iis:windowsservercore-2004`



# QUICK INTRODUCTION TO

Flow to a running container

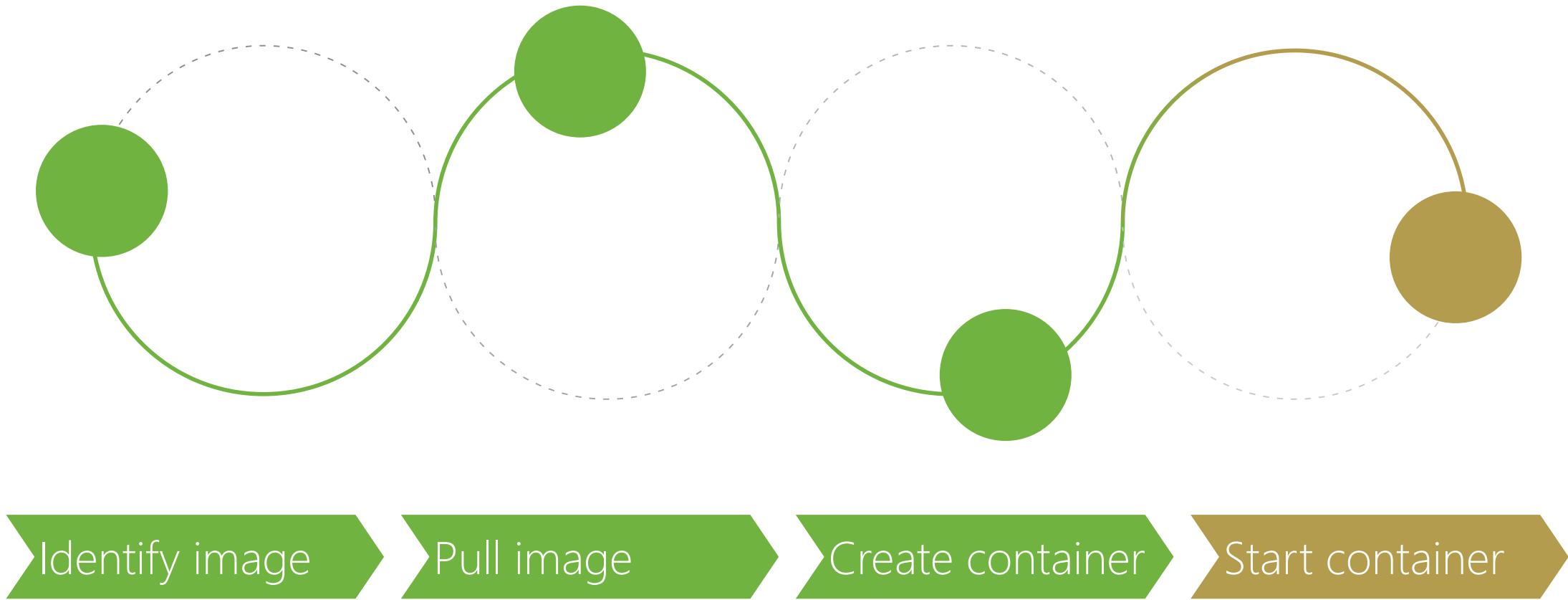


`docker create mcr.microsoft.com/windows/servercore/iis:windowsservercore-2004`



# QUICK INTRODUCTION TO

Flow to a running container

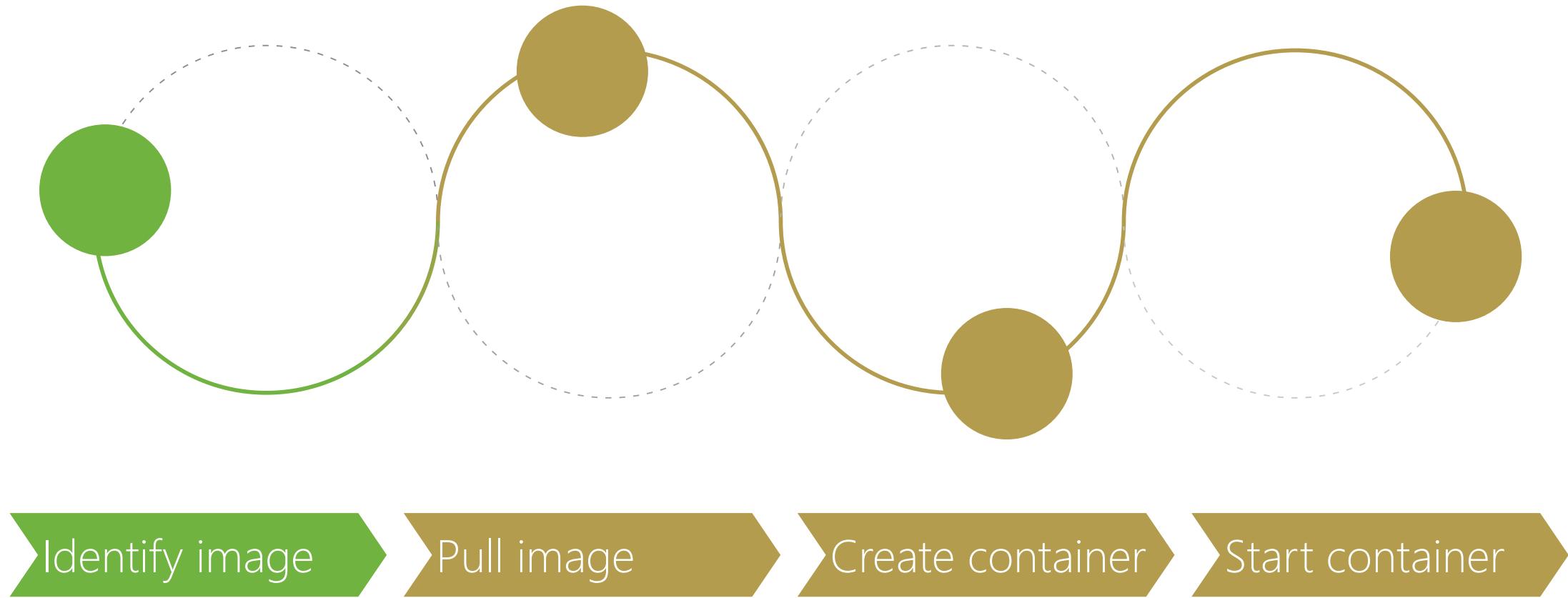


`docker start mcr.microsoft.com/windows/servercore/iis:windowsservercore-2004`



# QUICK INTRODUCTION TO

Flow to a running container

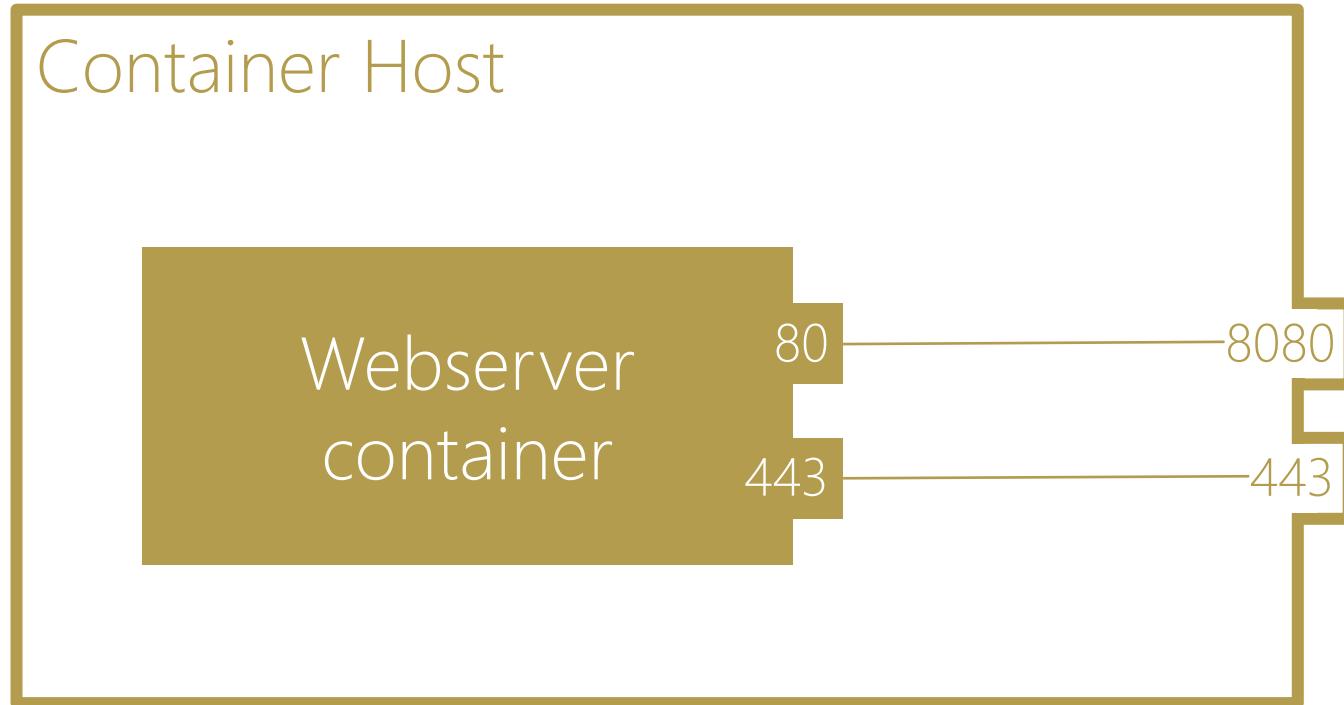


`docker run mcr.microsoft.com/windows/servercore/iis:windowsservercore-2004`



# QUICK INTRODUCTION TO

## Networking

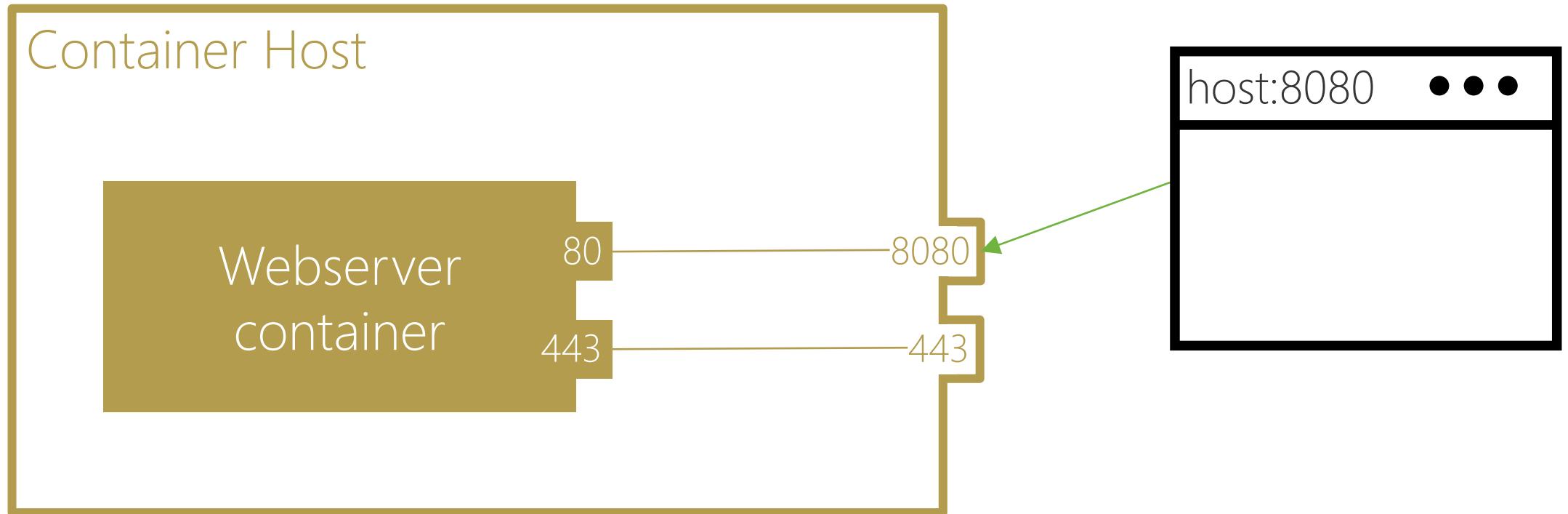


```
docker run -p 8080:80 -p 443:443 mcr.microsoft.com/...
```



# QUICK INTRODUCTION TO

## Networking

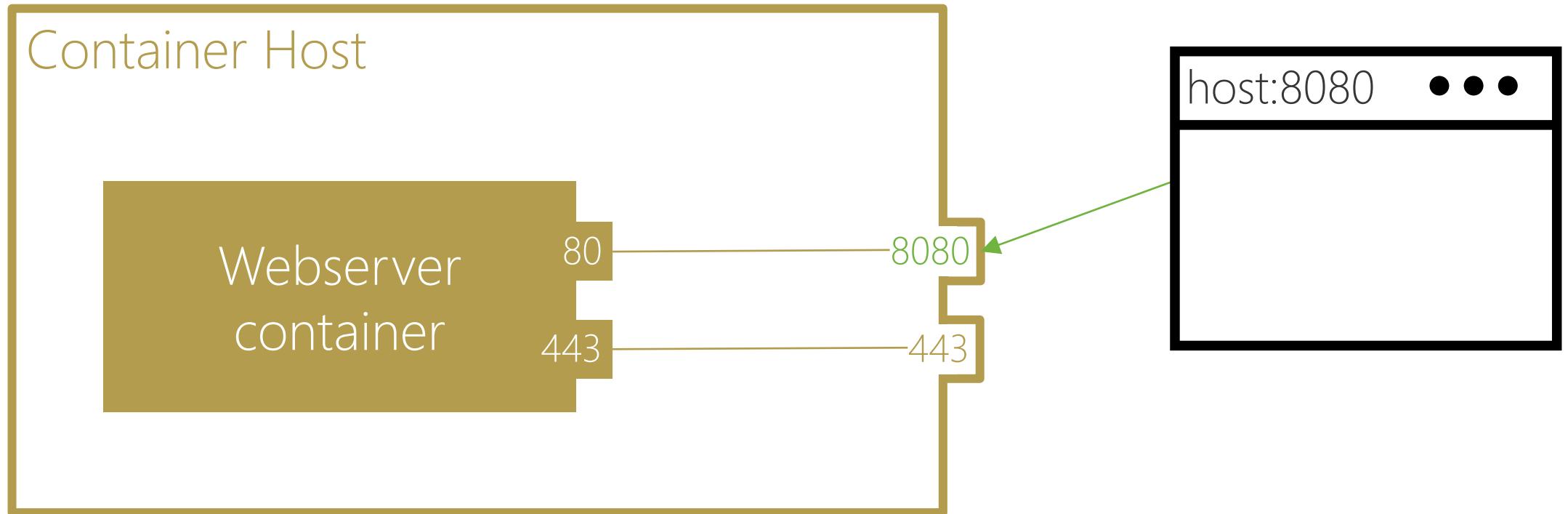


```
docker run -p 8080:80 -p 443:443 mcr.microsoft.com/...
```



# QUICK INTRODUCTION TO

## Networking

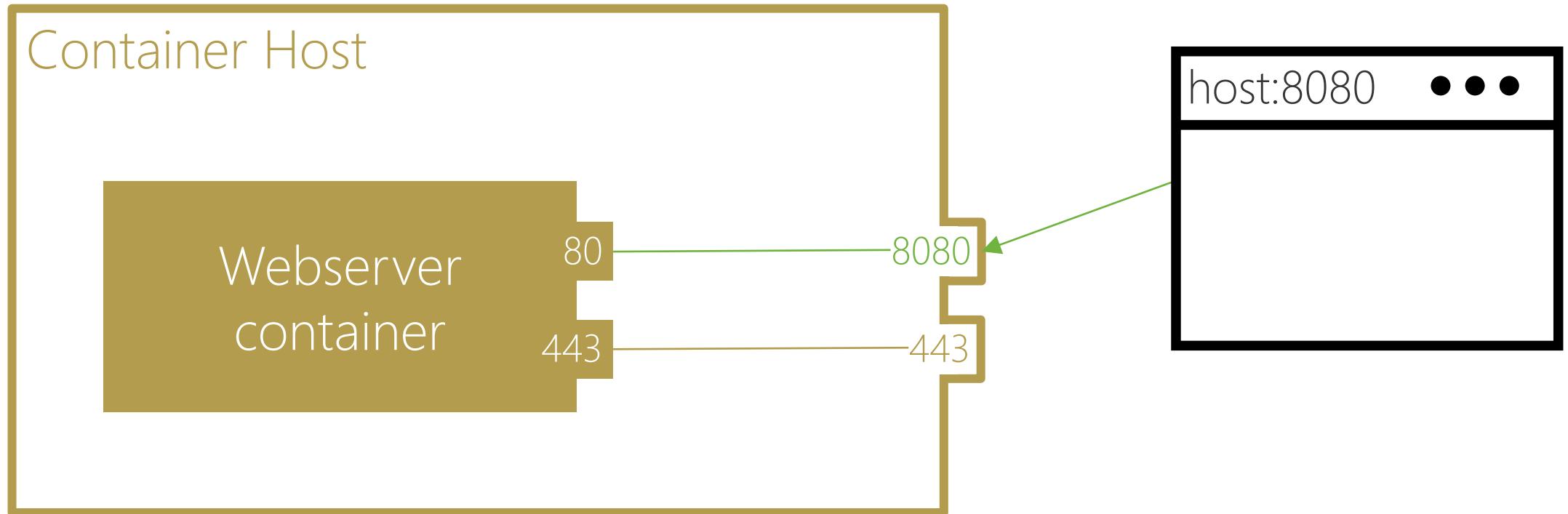


```
docker run -p 8080:80 -p 443:443 mcr.microsoft.com/...
```



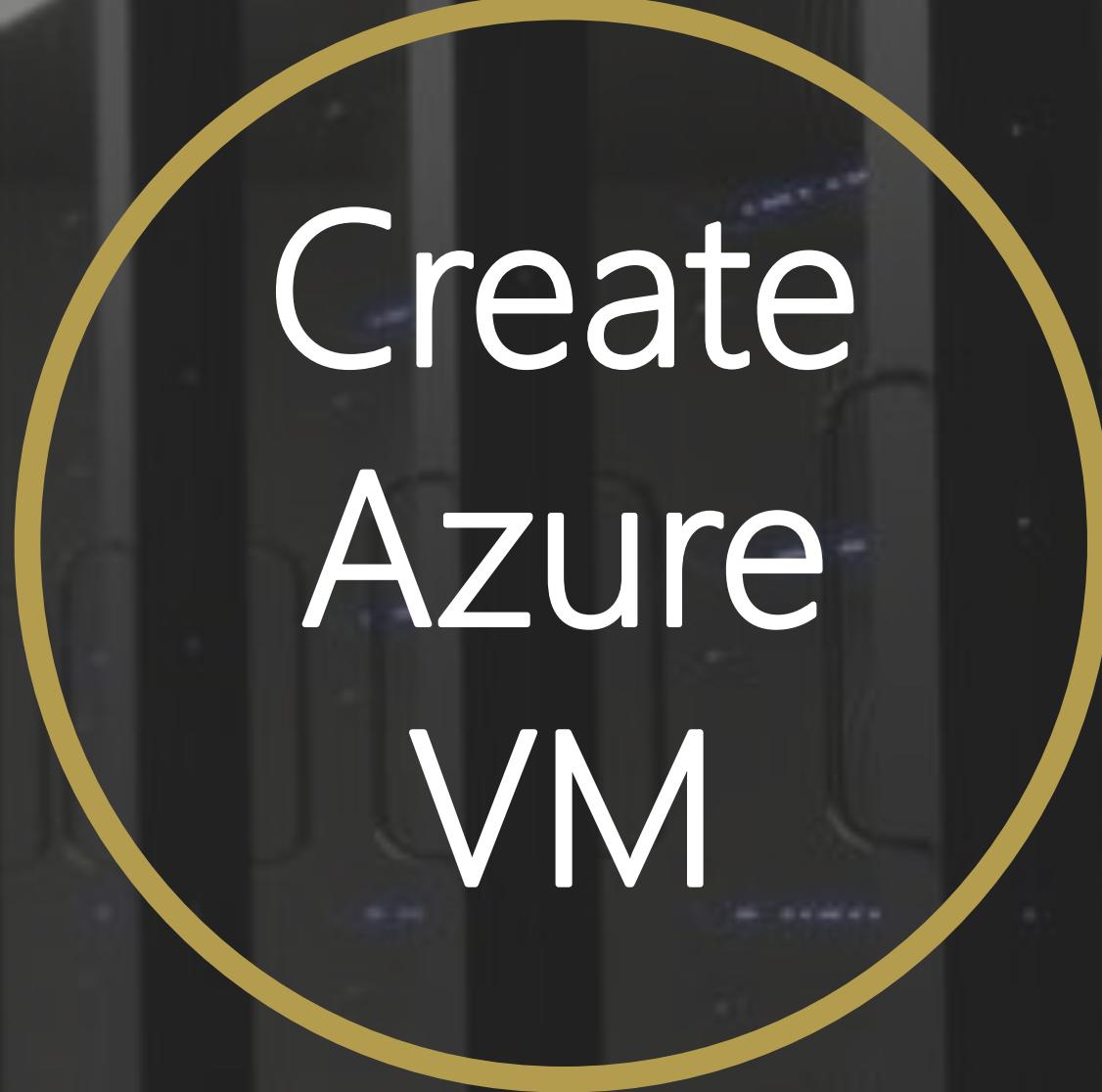
# QUICK INTRODUCTION TO

## Networking



```
docker run -p 8080:80 -p 443:443 mcr.microsoft.com/...
```

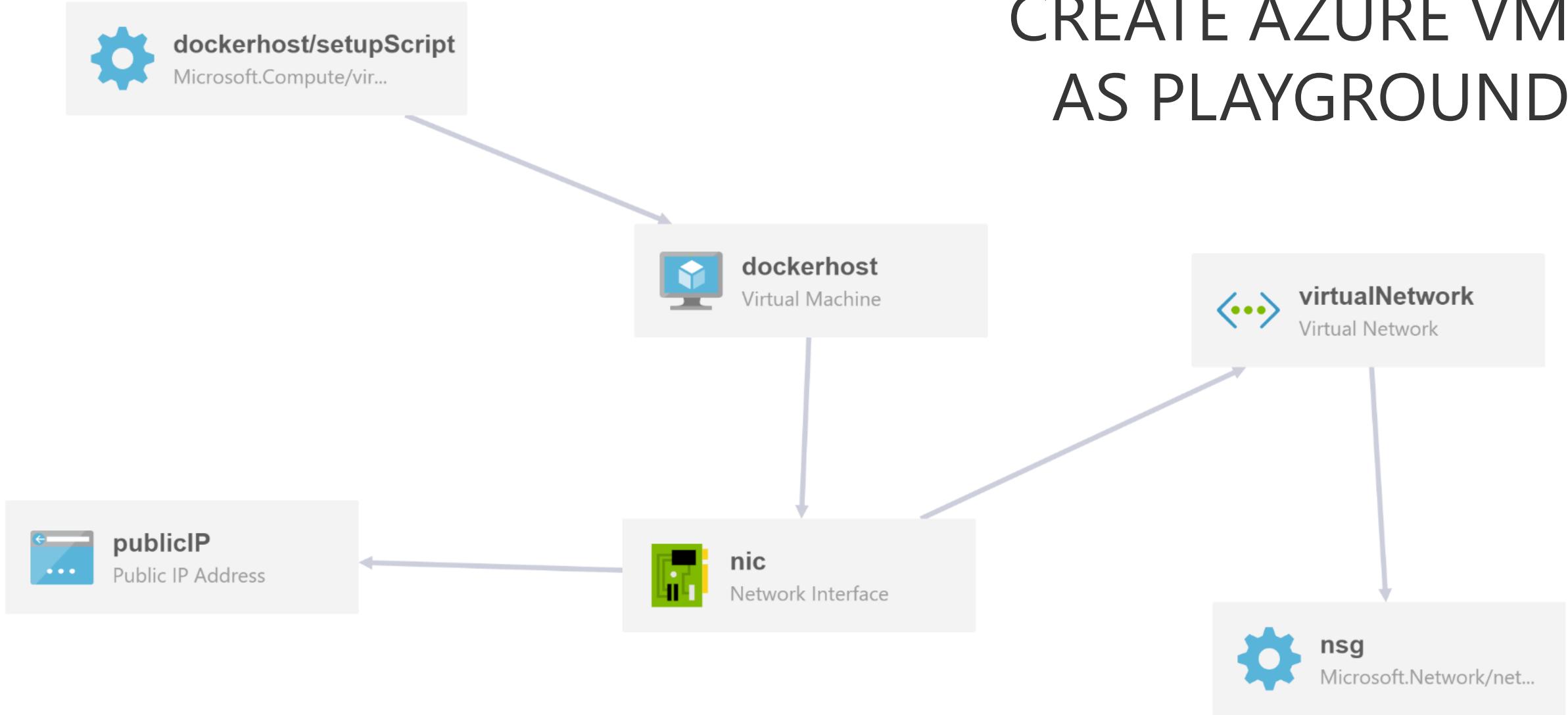




Create  
Azure  
VM



# CREATE AZURE VM AS PLAYGROUND







# LET'S SEE IT!

# Unleash your container potential

Portainer is a universal container management tool. It works with Kubernetes, Docker, Docker Swarm and Azure ACI and allows you to manage containers without needing to know platform-specific code.



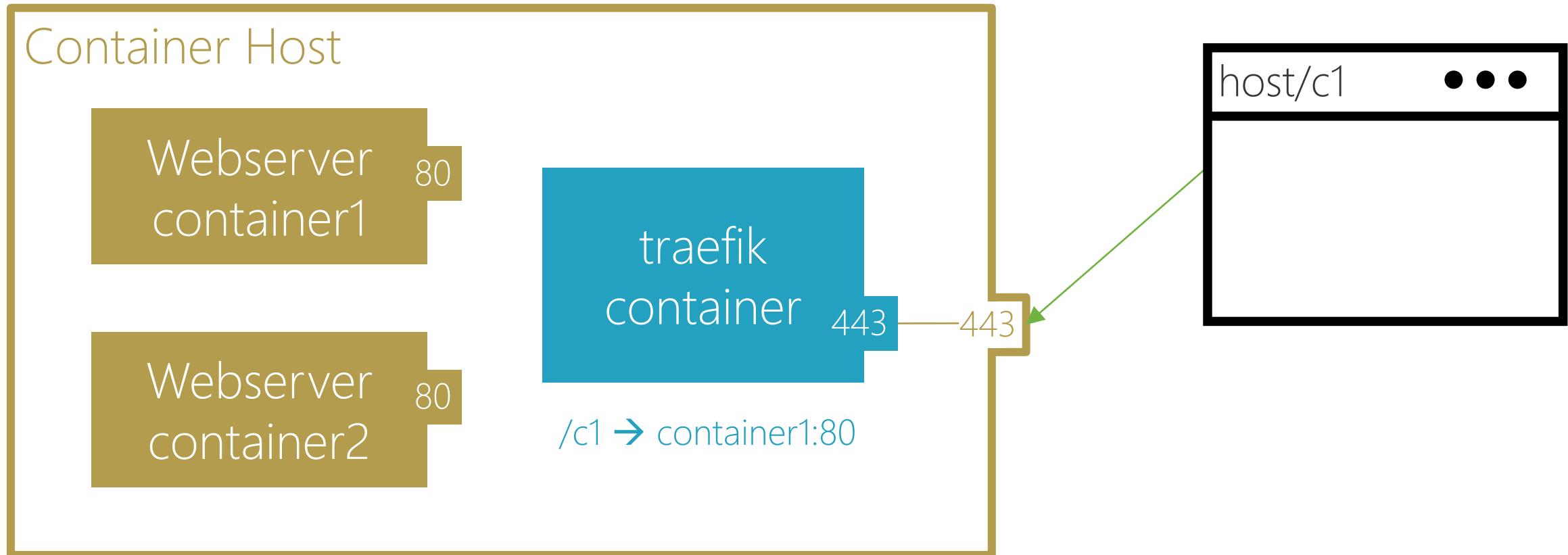


traefik  
proxy



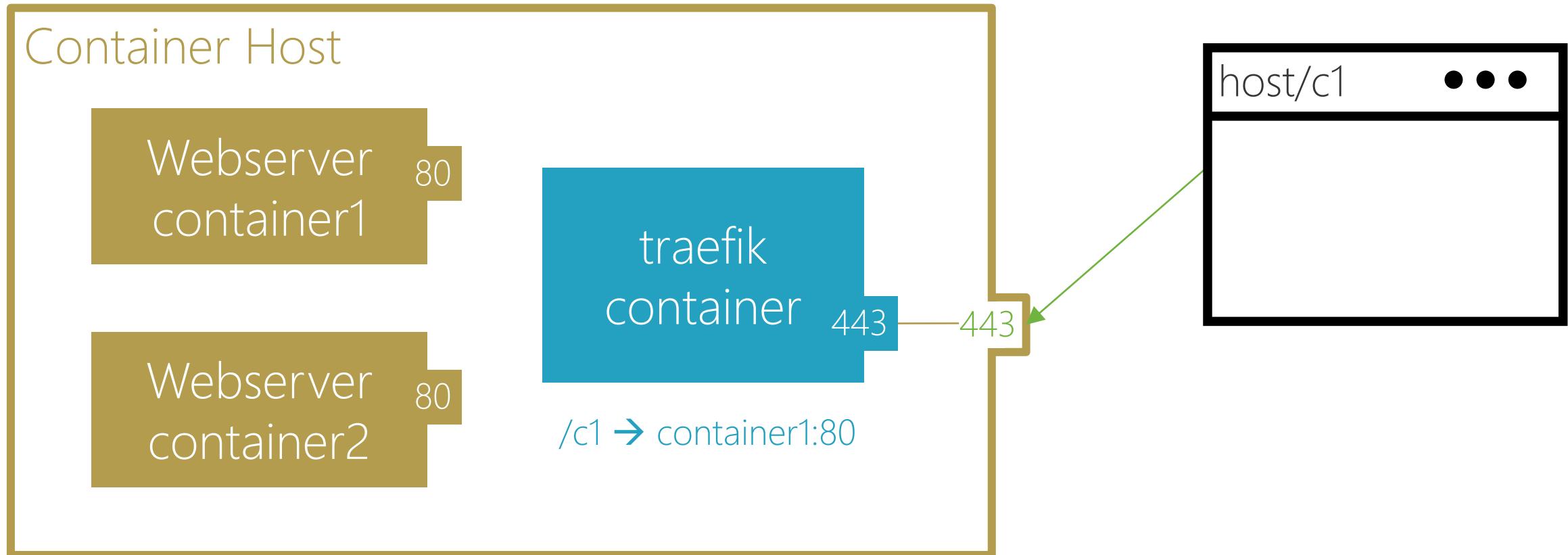
# QUICK INTRODUCTION TO traefik proxy

One of a lot of scenarios



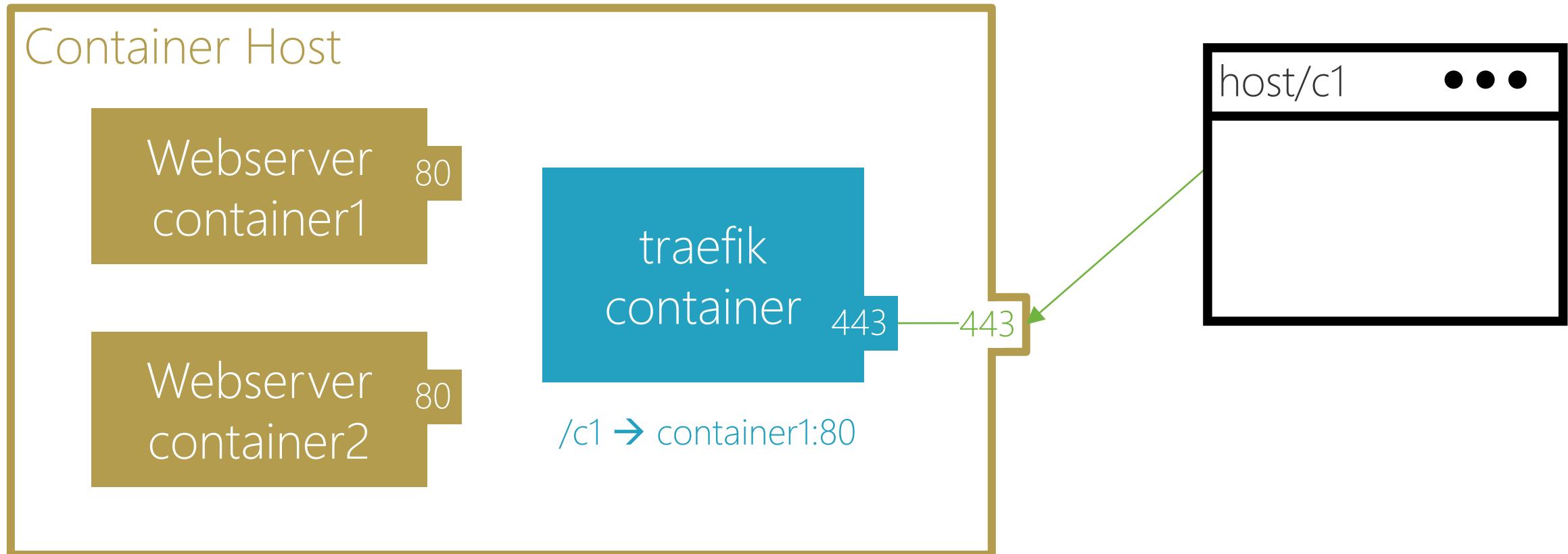
# QUICK INTRODUCTION TO traefik proxy

One of a lot of scenarios



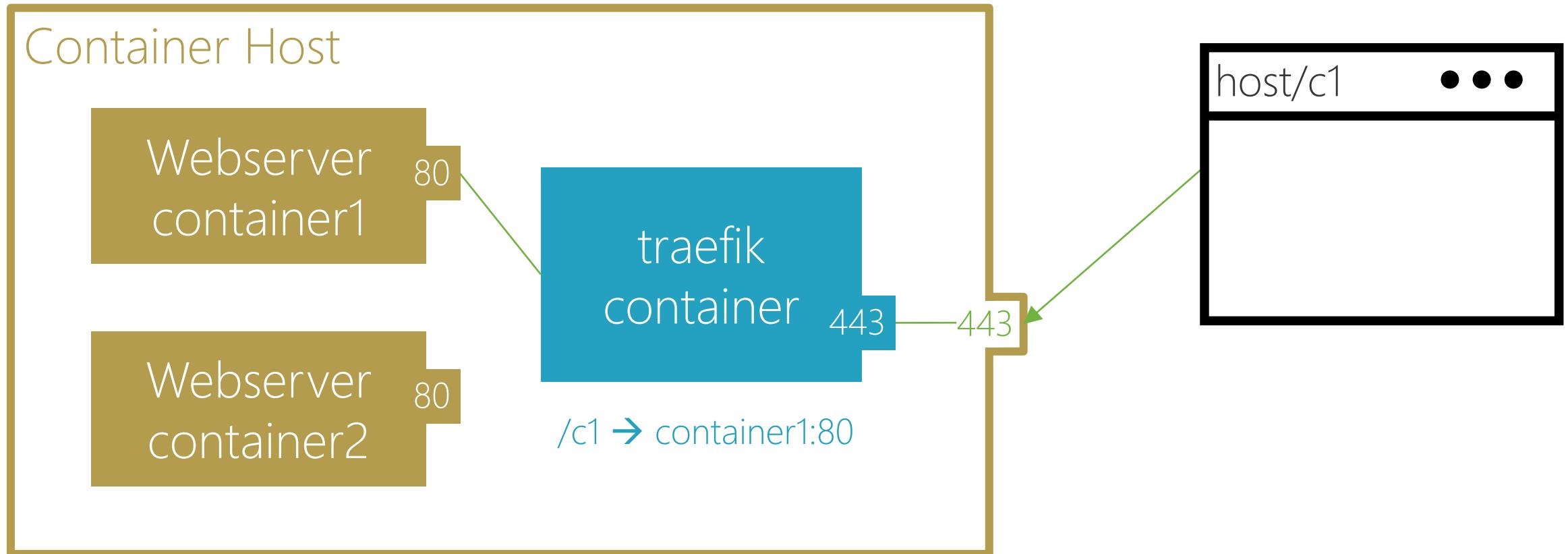
# QUICK INTRODUCTION TO traefik proxy

One of a lot of scenarios



# QUICK INTRODUCTION TO traefik proxy

One of a lot of scenarios

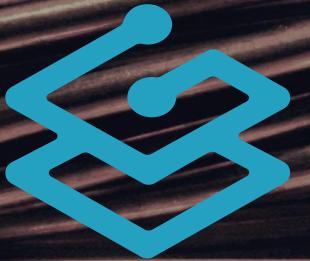


LET'S SEE IT!



traefik  
proxy





traefik  
proxy

TROUBLESHOOTING?



Any  
Questions?





Keep learning with  
**#GlobalAzure!**

