



DIRECTIONS  
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THE HAGUE | THE NETHERLANDS

Infoma 

## DOCKER ON WINDOWS AND BUSINESS CENTRAL ON DOCKER INTRO

Tobias Fenster  
Directions EMEA  
The Hague, 29.10.2018



Tobias Fenster

CTO at Axians Infoma

Microsoft MVP for Business Applications

<sup>†</sup>@tobiasfenster and <sup>†</sup><https://navblog.axians-infoma.com>

## Agenda

- ▶ Intro to the workshop structure and quick walk-through
- ▶ You work :)
  
- ▶ Find material at <sup>†</sup><https://ve.link/dir18-docker-ws>

# INTRO TO THE WORKSHOP STRUCTURE

## MULTIPLE "TRACKS" ACCORDING TO YOUR PREFERENCE

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- ▶ Track 1: Docker on Windows
- ▶ Track 2: Business Central on Docker
- ▶ Track 3: navcontainerhelper
- ▶ Track 4: Business Central with Azure Container Instances

# INTRODUCTION TO DOCKER

## IF YOU ARE NOT SURE YET WHAT THIS IS

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- ▶ What is **Docker**? Leading cross platform **software container** environment
- ▶ 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!
- ▶ 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**
- ▶ Why Docker?
  - **Easy way** to create deployments / configuration in a **very stable and reliable way** (no "works here", helps a lot to avoid gaps between dev and ops)
  - **Better resource usage** than in vms, especially because there is no guest os as the host kernel is **directly used**
  - Big ecosystem of readily available images, primarily on Docker Hub

- ▶ If you want: Uninstall Docker ([↑video 1.1](#)) as it already is installed and install it again ([↑video 1.2](#))
  - If you are not using the workshop vm, then follow the install instructions as well
- ▶ Try a small **hello world** example ([↑video 1.3](#)) and create **simple Dockerfiles** building your own image ([↑video 1.4](#), [↑download sources](#))
- ▶ Extend existing Dockerfiles as **multi-stage images** ([↑video 1.5](#), [↑download sources](#))
- ▶ Interesting if you want to **install Docker yourself** and want to learn the **Docker basics without anything BC specific**

- ▶ Run your first **Business Central** in a container (<sup>↑</sup>video 2.1)
- ▶ Change **config settings** (<sup>↑</sup>video 2.2)
- ▶ Add your **own custom script** (<sup>↑</sup>video 2.3) → same mechanism works for .dlls or other files
- ▶ Persist the script in your **own image** (<sup>↑</sup>video 2.4, based on 2.3)
- ▶ Connect your **development tools** to the container (<sup>↑</sup>video 2.5)
  
- ▶ Interesting if you want to **get started with Business Central on Docker** and look into some moderately complex examples

- ▶ Install the module and run your **first Business Central in a container** (↑video 3.1)
  - On the workshop host, it is already installed
  - If you run in your own VM, you need to install it for the following to work
- ▶ "Old school" setup: Win Auth, C/SIDE, Win Client (↑video 3.2)
- ▶ Connect with **VS Code** and publish your **app** (↑video 3.3, based on 3.2)
  
- ▶ Interesting if you want to follow the **easiest possible route** when using Docker in connection with BC

- ▶ Please note:
  - This requires an [Azure subscription](#) and will cause some small cost
  - It only needs a browser, so no need to connect to the workshop VM for this
- ▶ Get started: Use the [GUI](#) to create your [first ACI](#) ([↑video 4.1](#))
- ▶ Use the [Azure CLI](#) to automate creating the ACI ([↑video 4.2](#))
- ▶ Use my [quickstart template](#) to deploy ACIs ([↑video 4.3](#))
  - Includes Let's Encrypt certificates for secure communication without warnings
- ▶ Interesting if you want to run Docker containers [without installing and maintaining](#) the base infrastructure

- ▶ If you want to use the workshop VM, send an email to [freddy.kristiansen@microsoft.com](mailto:freddy.kristiansen@microsoft.com) with the IP address on the landing page and he will enable access
- ▶ Make sure to **stop all running containers before starting a new track** (<sup>↑</sup>video 0)
  - Only exception are parts where "depends on previous part" is explicitly noted
- ▶ If actions run for a **longer time**, I have **skipped** the waiting time in the recordings
- ▶ **Green** target circle means **left click**, **yellow** target circle means **right click**



# ANY QUESTIONS I CAN TRY TO ANSWER?

<sup>↑</sup>@tobiasfenster

<sup>↑</sup><https://navblog.axians-infoma.de>

<sup>↑</sup>tobias.fenster@axians-infoma.de

