

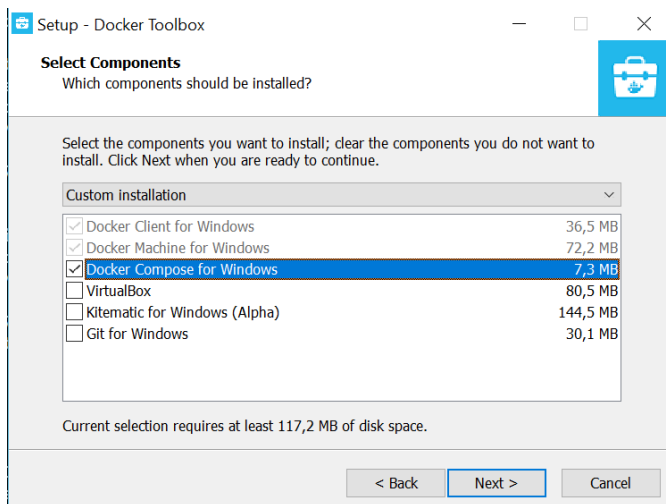
# Docker einrichten

Um das gesamte Nuclos-Projekt zu bauen wird Java und Maven benötigt. Für den Webclient werden weitere Build-Tools benötigt (NodeJS, Angular-CLI, etc.). Diese Build-Tools werden mittels Docker zur Verfügung gestellt.

## Schritt-für-Schritt-Anleitung für Windowsuser

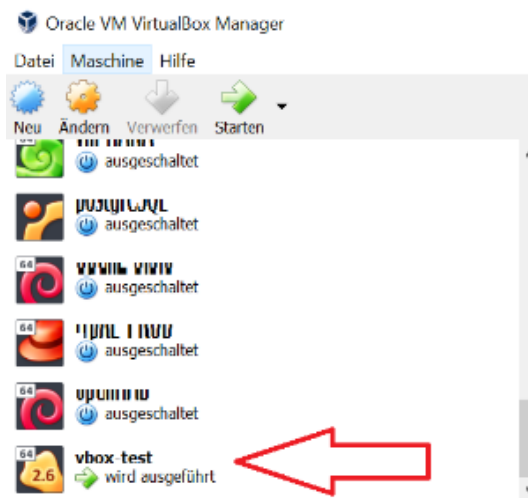
Virtualbox hat sich in der Praxis bewährt, diese Anleitung setzt deshalb auf den Betrieb von Docker mit Virtualbox. Das Docker for Windows hingegen läuft mit HyperV. Es gibt keine Möglichkeit HyperV und Virtualbox parallel laufen zu lassen.

- Download der Docker Toolbox von <https://docs.docker.com/toolbox/overview/>
- Installation der Toolbox



- als nächstes muss automatisch eine Virtuelle Maschine in Virtualbox erzeugt werden

CMD: `docker-machine create --driver=virtualbox vbox-test`



- Anschließend müssen die generierten ENV-Parameter in den Windows Umgebungsvariablen übertragen werden

CMD: `docker-machine env vbox-test`

```
X:\>docker-machine env vbox-test
SET DOCKER_TLS_VERIFY=1
SET DOCKER_HOST=tcp://192.168.99.100:2376
SET DOCKER_CERT_PATH=C:\Users\eddi7\.docker\machine\machines\vbox-test
SET DOCKER_MACHINE_NAME=vbox-test
SET COMPOSE_CONVERT_WINDOWS_PATHS=true
REM Run this command to configure your shell:
REM @FOR /f "tokens=" %i IN ('docker-machine env vbox-test') DO @%i
X:>
```

Umgebungsvariablen

Benutzervariablen für eddi7

Variablen	Wert
COMPOSE_CONVERT_WINDOWS_PATHS	true
DOCKER_CERT_PATH	C:\Users\eddi7\.docker\machine\machines\vbox-test
DOCKER_HOST	tcp://192.168.99.100:2376
DOCKER_MACHINE_NAME	vbox-test
DOCKER_TLS_VERIFY	1
DOCKER_TOOLBOX_INSTALL_PATH	C:\opt\DockerToolbox

Neu... Bearbeiten... Lö

Systemvariablen

Variablen	Wert
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Die Umgebungsvariablen werden in der Eingabeaufforderung erst nach einem Neustart dieser übernommen

- Danach kann man das Webclient-Projekt direkt unter Windows bauen:

```

Eingabeaufforderung: man @man install -Pqk
Parsing java.io.Serializable used in 'LegalDisclaimer<interface>'
Parsing UnknownSerializer 'com.fasterxml.jackson.databind.ser.impl.UnknownSerializer' for class 'interface java.io.Serializable'
Parsing java.lang.Cloneable used in 'LegalDisclaimer<interface>'
Parsing UnknownSerializer 'com.fasterxml.jackson.databind.ser.impl.UnknownSerializer' for class 'interface java.lang.Cloneable'
Parsing org.jvnet.jaxb2_commons_lang.CopyTo used in 'LegalDisclaimer<interface>'
Parsing UnknownSerializer 'com.fasterxml.jackson.databind.ser.impl.UnknownSerializer' for class 'interface org.jvnet.jaxb2_commons_lang.CopyTo'
Parsing org.jvnet.jaxb2_commons_lang.Equals used in 'LegalDisclaimer<interface>'
Parsing UnknownSerializer 'com.fasterxml.jackson.databind.ser.impl.UnknownSerializer' for class 'interface org.jvnet.jaxb2_commons_lang.Equals'
Parsing org.jvnet.jaxb2_commons_lang.HashCode used in 'LegalDisclaimer<interface>'
Parsing UnknownSerializer 'com.fasterxml.jackson.databind.ser.impl.UnknownSerializer' for class 'interface org.jvnet.jaxb2_commons_lang.HashCode'
Parsing org.jvnet.jaxb2_commons_lang.Totalling used in 'LegalDisclaimer<interface>'
Parsing java.xml.datatype.XMLGregorianCalendar used in 'MetaValidator'
Parsing UnknownSerializer 'com.fasterxml.jackson.databind.ser.impl.UnknownSerializer' for class 'interface org.jvnet.jaxb2_commons_lang.Totalling'
Parsing UnknownSerializer 'com.fasterxml.jackson.databind.ser.impl.UnknownSerializer' for class 'interface org.jvnet.jaxb2_commons_lang.Totalling'
Writing declarations to: X:\dev\nuclos-gov\Nuclos\nuclos-webclient\src\app\shared\entities\dts.d.ts
[INFO] --- main:resources:plugin:1.6:resources (default-resources) @ nuclos-webclient ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory X:\dev\nuclos-gov\Nuclos\nuclos-webclient\src\main\resources
[INFO] --- main:compiler:plugin:1.6:compile (default-compile) @ nuclos-webclient ---
[INFO] No sources to compile
[INFO] --- main:antrun:plugin:1.6:run (build-docker-image) @ nuclos-webclient ---
[INFO] Executing tasks

main:
[exec] Sending build context to Docker daemon 4.865kB
[exec] Step 1/25 : ARG NODE_VERSION=10.4.1
[exec] Step 2/25 : FROM node:NODE_VERSION as builder
[exec] 10.4.1: Pulling from library/node
[exec] 3d772e4441b1: Pulling fs layer
[exec] 7d2f3203963: Pulling fs layer
[exec] 8c5c7f11890: Pulling fs layer
[exec] 9f950e82500: Pulling fs layer
[exec] 4b16c27980e5: Pulling fs layer
[exec] 5fcdabfa451: Pulling fs layer
[exec] c5f4ac2360: Pulling fs layer
[exec] 454c58741a: Pulling fs layer
[exec] 9f950e82500: Waiting
[exec] 4b16c27980e5: Waiting
[exec] 5fcdabfa451: Waiting
[exec] c5f4ac2360: Waiting
[exec] 454c58741a: Waiting
[exec] 7d2f3203963: Verifying Checksum
[exec] 7d2f3203963: Download complete
[exec] 8c5c7f11890: Verifying Checksum
[exec] 8c5c7f11890: Download complete
[exec] 4b16c27980e5: Verifying Checksum
[exec] 4b16c27980e5: Download complete
[exec] 5fcdabfa451: Verifying Checksum
[exec] 5fcdabfa451: Download complete
[exec] 3d772e4441b1: Verifying Checksum
[exec] 3d772e4441b1: Download complete
[exec] 7d2f3203963: Verifying Checksum
[exec] 7d2f3203963: Download complete
[exec] 9f950e82500: Verifying Checksum
[exec] 9f950e82500: Download complete
[exec] 8c5c7f11890: Pull complete
[exec] 9f950e82500: Pull complete
[exec] 4b16c27980e5: Pull complete
[exec] 5fcdabfa451: Pull complete
[exec] c5f4ac2360: Pull complete
[exec] 454c58741a: Pull complete
[exec] Digest: sha256:6c7e6a50f57a3ab02f5911f46f55080541f9fa35bd310a3ff2c80f9f600
[exec] Status: Downloaded newer image for node:10.4.1
[exec] ---- 4d1f940e9
[exec] Step 3/25 : RUN wget -q -O - https://dl-ssl.google.com/linux/linux_signing_key.pub | apt-key add -
[exec] ---- Running in 27a2cbee741
[exec] Ok
[exec] Removing intermediate container 27a2cbee741
[exec] ---- 3bc4f6a6d
[exec] Step 4/25 : RUN sh -c 'echo "deb [arch=amd64] http://dl.google.com/linux/chrome/deb/ stable main" >> /etc/apt/sources.list.d/google.list'
[exec] ---- Running in 3bc7fab7c9
[exec] Removing intermediate container 3bc7fab7c9
[exec] ---- 5d097227f
[exec] Step 5/25 : RUN apt-get update && apt-get install -y google-chrome-stable
[exec] ---- Running in 035c09fbc7d
[exec] Get http://dl.google.com/stable InRelease
[exec] Get:1 http://dl.google.com/stable Release.gpg [819 B]
[exec] Get:2 http://dl.google.com/stable Release [543 B]

```