

Lego - Bash - Docker

Tikken - Klikken?

Niet Of-Of - maar **En-En**

Het gaat om
Productiviteit
en
Zelfredzaamheid

Boodschap

Investeer in jezelf!

Leer
Bash

Leer
Docker

Bash?

“opdrachtregelprogramma”

Unix/Linux “Shell”

Mac OSX: in “Terminal”

Linux: standaard

Windows: nu ook via Ubuntu! (next)

Historie:

sh

AT&T Unix - Bourne Shell

bsh

GNU/Linux: Bourne Again Shell

bash

Bash hier als overkoepelend begrip.



Ubuntu

Canonical Group Limited • [Developer tools](#) > [Utilities](#)

Ubuntu on Windows allows you to use Ubuntu Terminal and run Ubuntu command line utilities including bash, ssh, git, apt and many more.

[More](#)



EVERYONE

Free

Get

[See System Requirements](#)

Overview

System Requirements

Related

Available on



PC

Description

Ubuntu on Windows allows you to use Ubuntu Terminal and run Ubuntu command line utilities including bash, ssh, git, apt and many more.

Waarom?

Lego!!



Lego!!



<https://www.utrechtcentral.com/uncategorized/lego-world-2018-at-jaarbeurs-18230/>

Bouwblokken

“Componenten”

Bash

“Kleine Lego-stenen”

*“Composing programs from smaller programs
to accomplish a desired task”*

Docker

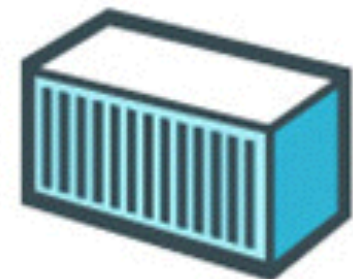
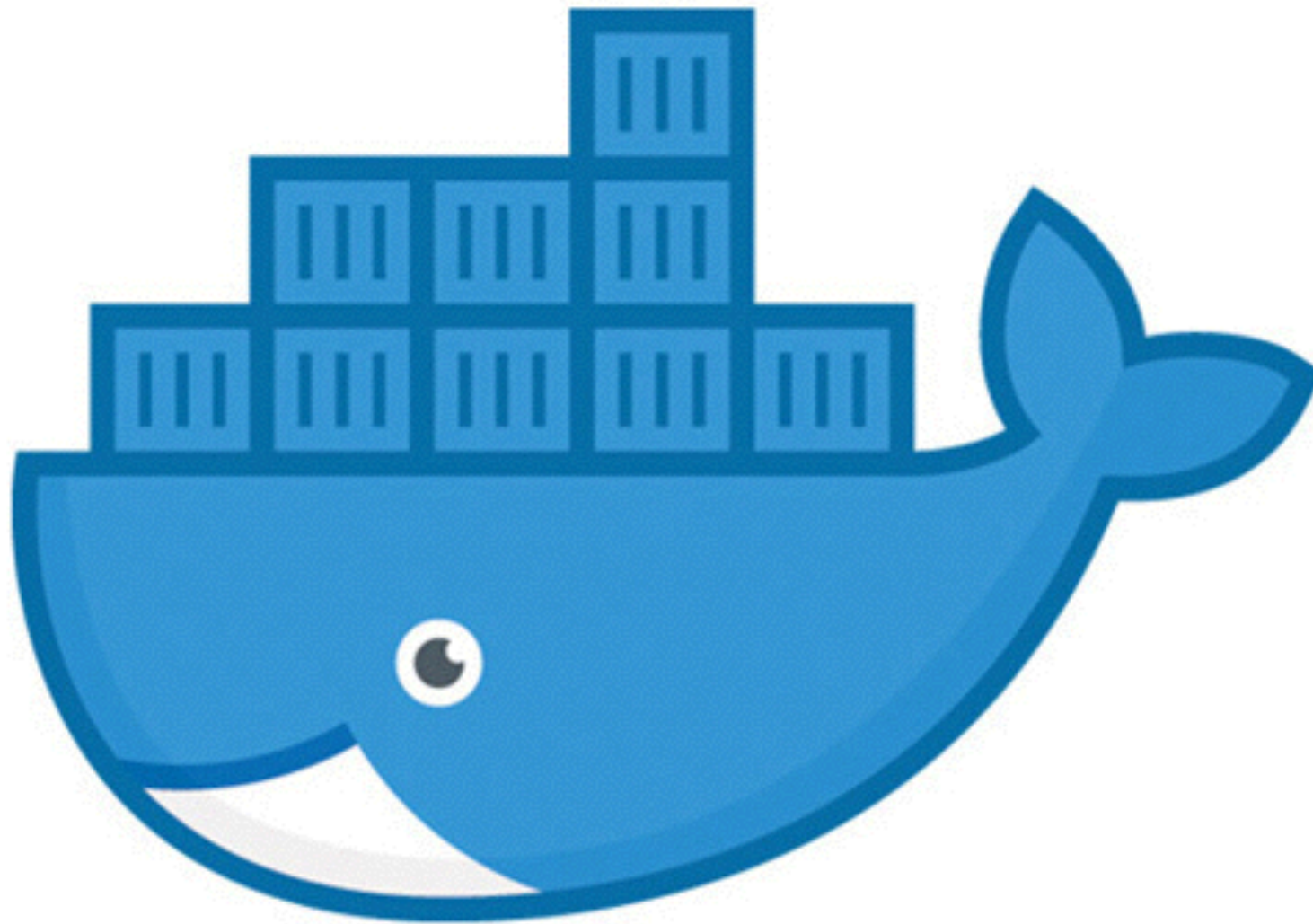
“Grote Lego-stenen”

*“Composing systems from,
single-service-components a.k.a. Containers”*

Bash

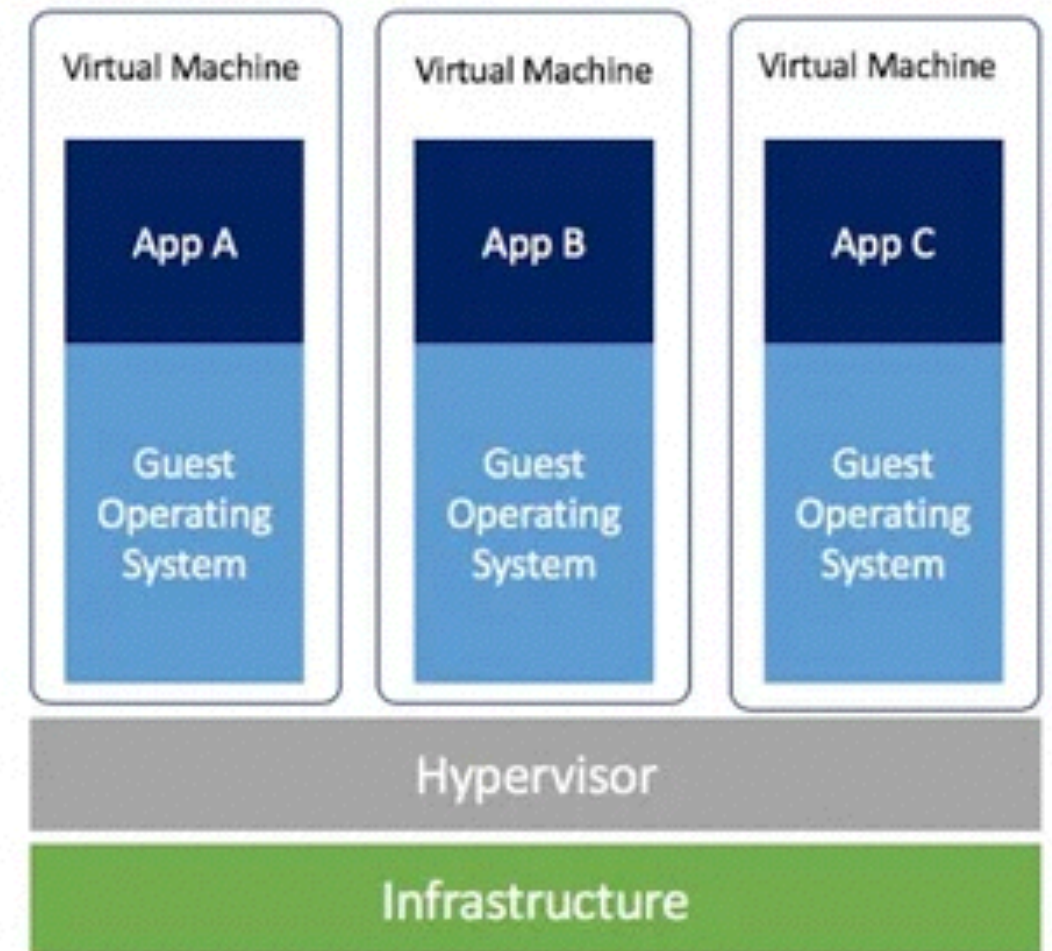
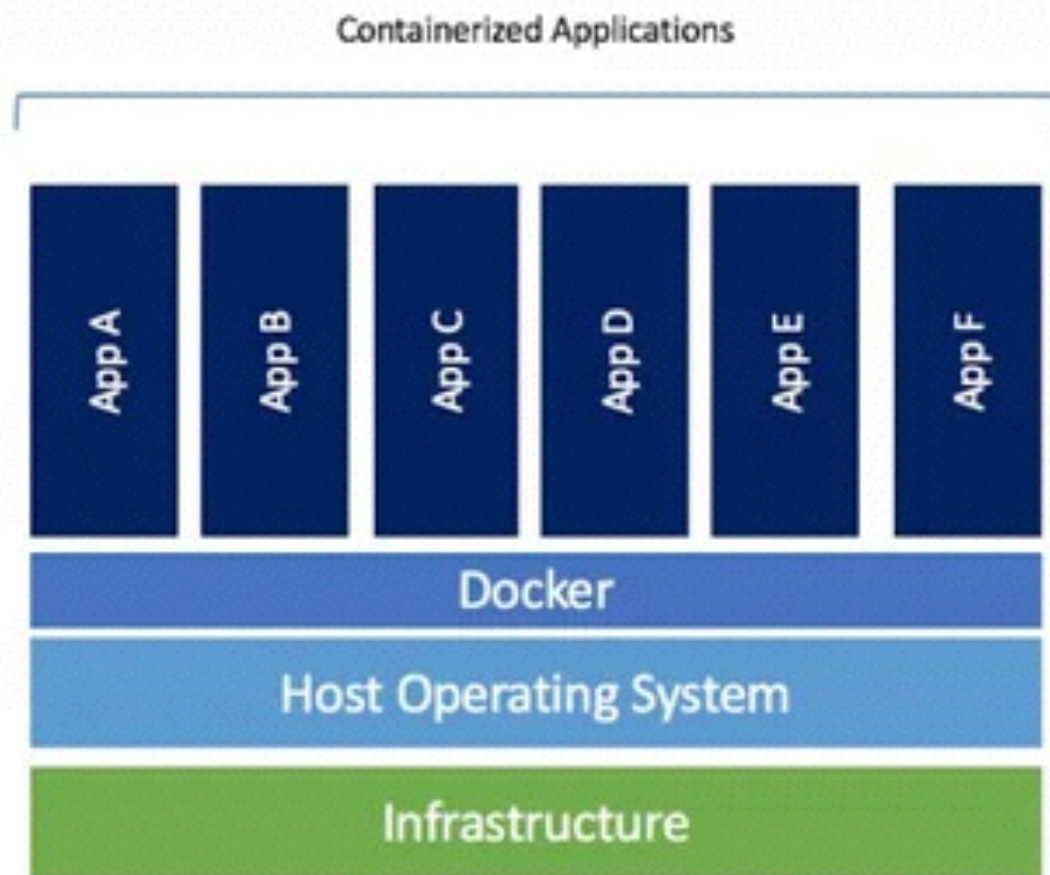
```
bash — fadmin@GFAB: ~/git/services/etl — -bash — 84x32
just@nusa:~/bagdemo/bash$ pwd
/Users/just/bagdemo/bash
just@nusa:~/bagdemo/bash$ echo "hallo geo"
hallo geo
just@nusa:~/bagdemo/bash$ echo "hallo geo" > hallo.txt
just@nusa:~/bagdemo/bash$ cat hallo.txt
hallo geo
just@nusa:~/bagdemo/bash$ cp hallo.txt hallo2.txt
just@nusa:~/bagdemo/bash$ ls
hallo.txt    hallo2.txt
just@nusa:~/bagdemo/bash$ cat hallo.txt hallo2.txt > hallohallo.txt
just@nusa:~/bagdemo/bash$ cat hallohallo.txt
hallo geo
hallo geo
just@nusa:~/bagdemo/bash$ rm hallo2.txt hallohallo.txt
just@nusa:~/bagdemo/bash$ ls
hallo.txt
just@nusa:~/bagdemo/bash$ who
just      console  Apr  8 11:43
just      ttys000  Apr  8 12:01
just      ttys001  Apr  8 12:53
just@nusa:~/bagdemo/bash$ cat hallo.txt | wc
      1      2     10
just@nusa:~/bagdemo/bash$ cat hallo.txt | wc -c
10
just@nusa:~/bagdemo/bash$ who am i
just      ttys001  Apr  8 12:53
just@nusa:~/bagdemo/bash$ docker --version
Docker version 19.03.13, build 4484c46d9d
just@nusa:~/bagdemo/bash$
```

Docker



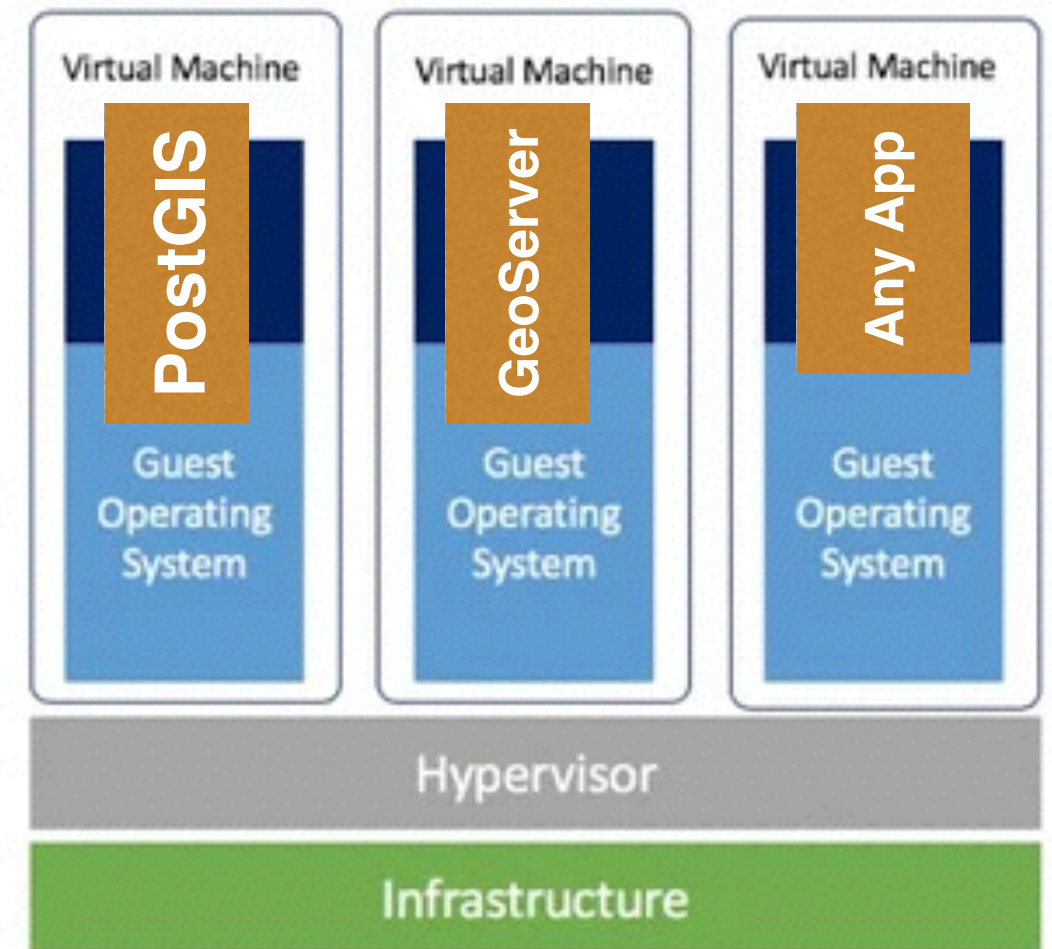
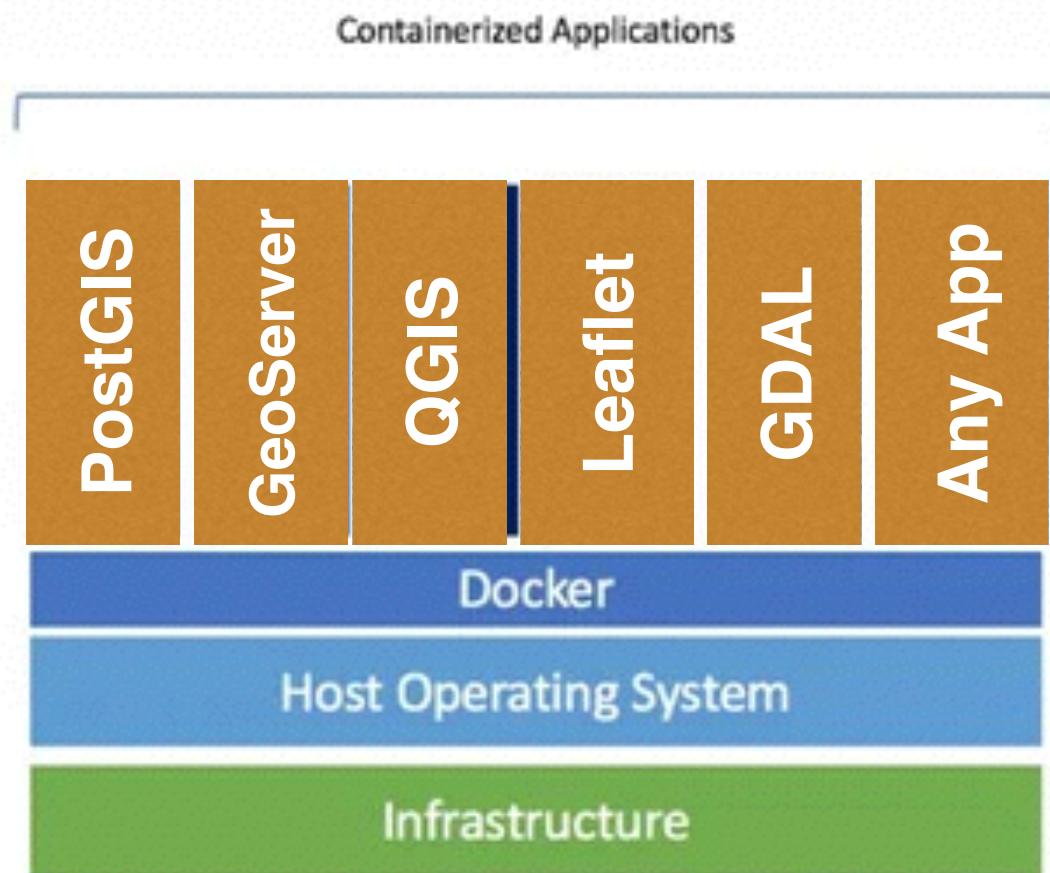
<https://www.signifytechnology.com/>

Docker



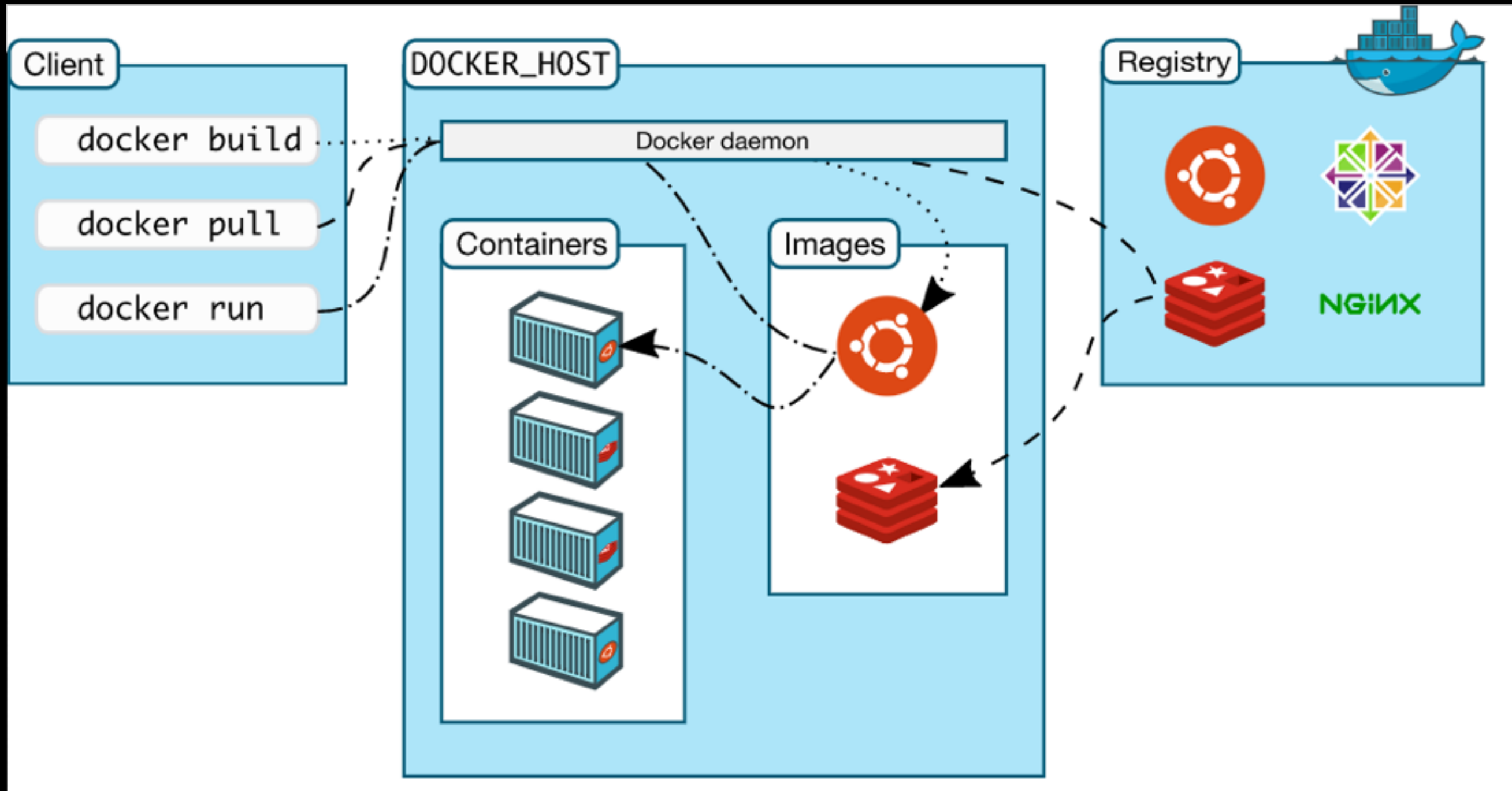
<https://www.sdxcentral.com/cloud/containers/definitions/what-is-docker-container/>

Geo met Docker



<https://www.sdxcentral.com/cloud/containers/definitions/what-is-docker-container/>

Docker



<https://docs.docker.com/get-started/overview/>

Demo!!

*EPSG-28992 - BRT-Achtergrond — QGIS

Layers

- ☒ pand
- ☒ brtachtergrondkaart

Identify Results

Feature	Value
pand [4]	
fid	5140
(Derived)	
(Actions)	
fid	5140
oorspronkelijkBouwjaar	1970
identificatie	NL.IMBAG.Pand.0221100...
status	Pand in gebruik (niet inge...
geconstateerd	false
documentDatum	2018-07-12
documentNummer	2018OMG0031
voorkomenIdentificatie	3
beginGeldigheid	2018-07-12
eindGeldigheid	2019-11-19
tijdstipRegistratie	2018-07-16 09:45:58
eindRegistratie	2019-11-19 12:50:23
tijdstipInactief	NULL
tijdstipRegistratieLV	2018-07-16 10:00:41
tijdstipEindRegistratieLV	2019-11-19 12:50:47
tijdstipInactiefLV	NULL
tijdstipNietBagLV	NULL
fid	5141
fid	5138
fid	5139

Mode: Current Layer

View: Tree

Help

Coordinate: 206248,447198 Scale: 1:4579 Magnifier: 100% Rotation: 0,0 ° Render EPSG:28992

Type to locate (⌘K)

Demo - Referentie

Werkmappen maken

```
mkdir work  
mkdir work/in  
mkdir work/out
```

Data ophalen

```
curl -o work/in/bag.zip https://extracten.bag.kadaster.nl/lvbag/extracten/Gemeente%20LVC/0221/BAGGEM0221L-15032021.zip
```

Data uitpakken

```
cd work/in  
unzip bag.zip  
unzip 0221GEM15032021.zip  
unzip 0221PND15032021.zip
```

Opschonen

```
rm *.zip Leveringsdocument-BAG-Extract.xml
```

Terug naar start map

```
cd -
```

Docker!!

```
docker images  
docker pull osgeo/gdal:alpine-small-latest  
docker images  
docker run --rm osgeo/gdal:alpine-small-latest ogr2ogr --version  
docker run --rm -v $(pwd)/work:/work osgeo/gdal:alpine-small-latest ogr2ogr -f GPKG /work/out/pand.gpkg /work/in
```

Panden in QGIS (Doesburg)

```
open -a QGIS work/out/pand.gpkg
```