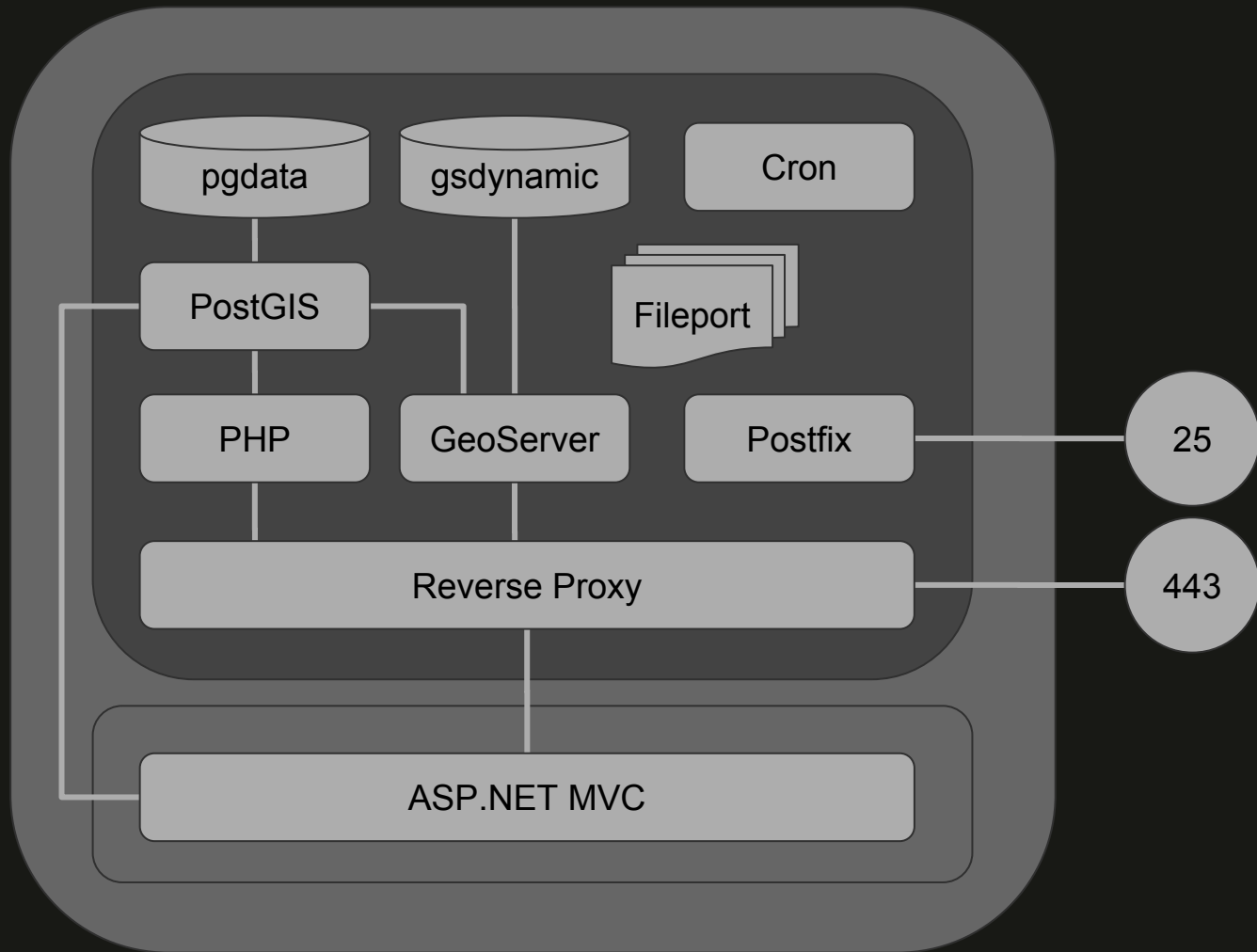
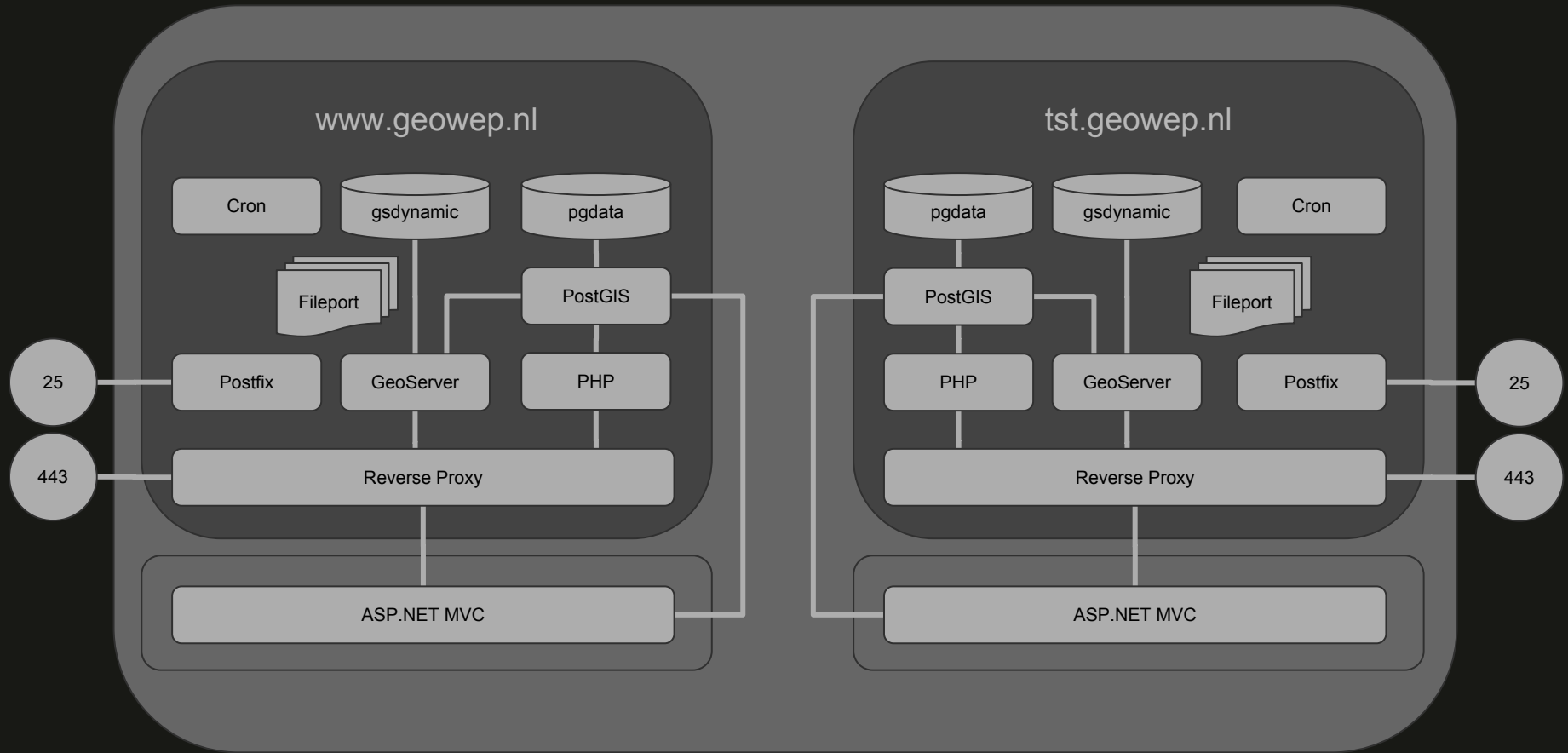




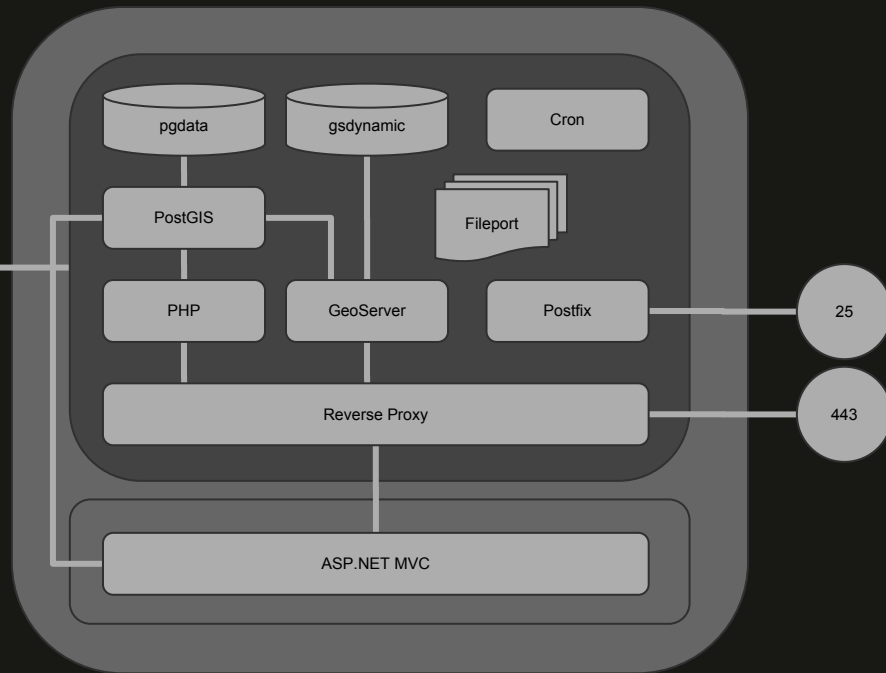
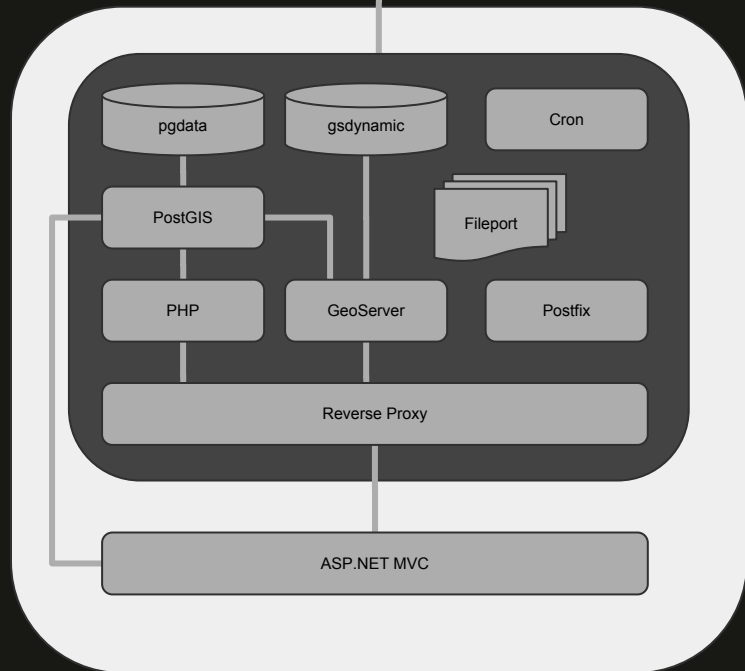
Package software into standardized units for development, shipment and deployment



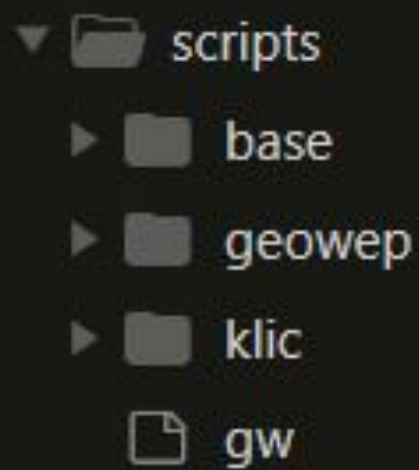




















Registry @ docker.merkator.com
















Subversion @ Merkator intern
















- ▼  scripts
 - ▶  base
 - ▶  geowep
 - ▶  klic
 -  gw

- ▼  base
 - ▶  certificates
 - ▶  cron
 - ▶  gdal
 - ▶  geoserver
 - ▶  include
 - ▶  postfix
 - ▶  postgres
 - ▶  postgres-gdal
 - ▶  proxy
 - ▶  registry

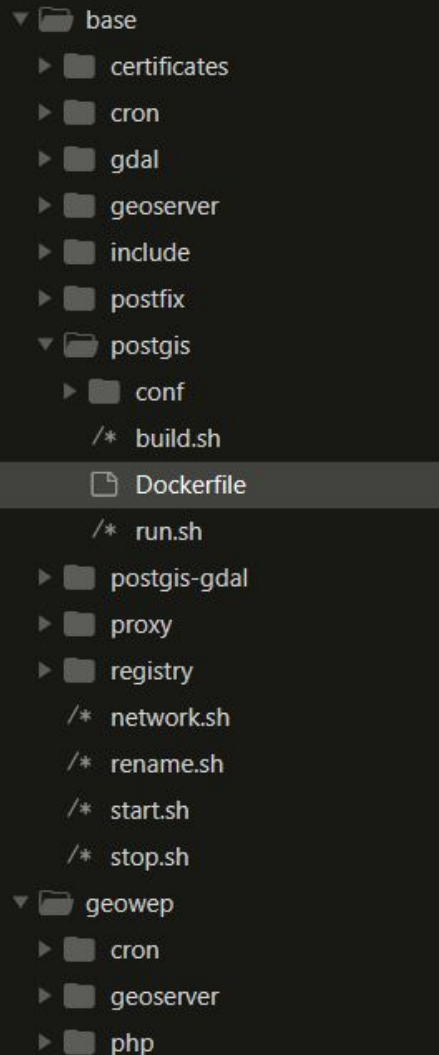
- ▼  klic
 - ▶  cron
 - ▶  geoserver
 - ▶  postfix
 - ▶  postgres

- ▼  geowep
 - ▶  cron
 - ▶  geoserver
 - ▶  php
 - ▶  postfix
 - ▶  postgres
 - ▶  proxy
 - ▶  run

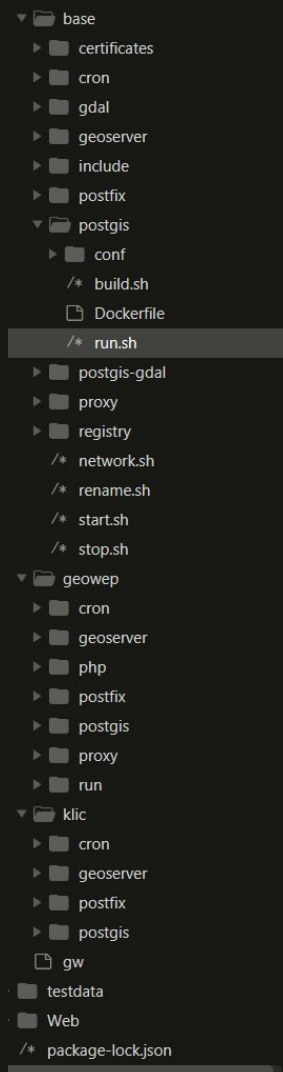
- ▼  base
 - ▶  certificates
 - ▶  cron
 - ▶  gdal
 - ▶  geoserver
 - ▶  include
 - ▶  postfix
 - ▼  postgis
 - ▶  conf
 - /* build.sh
 -  Dockerfile
 - /* run.sh
 - ▶  postgis-gdal
 - ▶  proxy
 - ▶  registry

- ▼ base
 - ▶ certificates
 - ▶ cron
 - ▶ gdal
 - ▶ geoserver
 - ▶ include
 - ▶ postfix
 - ▼ postgis
 - ▶ conf
 - /* build.sh
 - Dockerfile
 - /* run.sh
- ▶ postgis-gdal
- ▶ proxy
- ▶ registry
- /* network.sh
- /* rename.sh
- /* start.sh
- /* stop.sh








```
build.sh x
1  #!/usr/bin/bash
2
3  DOCKER_REGISTRY="${DOCKER_REGISTRY:-docker.merkator.com/}"
4  DOCKER_USER="${DOCKER_USER:-merkator}"
5  DOCKER_REPO="${DOCKER_REPO:-postgis}"
6  DOCKER_TAG="${DOCKER_TAG:-latest}"
7  CONTAINER="${POSTGIS_CONTAINER:-$DOCKER_USER-pg}"
8
9  IMAGE="${DOCKER_REGISTRY}${DOCKER_USER}/${DOCKER_REPO}:${DOCKER_TAG}"
10
11  echo; echo "Building $IMAGE"
12
13  HERE=$(dirname "$0")
14  "$HERE/../../rename.sh" "$IMAGE" "$CONTAINER" force
15
16  cp -r "$HERE/../../include" "$HERE/conf"
17  docker build -t $IMAGE .
18  rm -rf "$HERE/conf/include"
19
```

```
1 FROM docker.merkator.com/merkator/postgis/gdal
2
3 RUN apk update; apk add --no-cache \
4     python py2-psycopg2
5
6 COPY conf /tmp/conf
7
8 RUN /tmp/conf/ogr_fdw/install.sh
9 RUN /tmp/conf/odbc_fdw/install.sh
10 RUN /tmp/conf/tds/install.sh
11
12 RUN /tmp/conf/include/runner/install.sh
13 RUN /tmp/conf/include/pg/install.sh
14
15 RUN mkdir -p /etc/postgresql /util; \
16     mv /tmp/conf/p*.conf /etc/postgresql/; \
17     mv /tmp/conf/schema.sh /util/; \
18     mv /tmp/conf/entrypoint/* /
19
20 ENV PATH=/util:$PATH
21
22 ENTRYPOINT ["/entrypoint"]
23 CMD ["postgis"]
24
```



```
run.sh x
1 #!/bin/bash
2
3 POSTGIS_PORT="${POSTGIS_PORT:-5432}"
4 PROXY_HOST="${PROXY_HOST:-localhost.merkator.com}"
5 PROXY_PORT="${PROXY_PORT:-8080}"
6 DOCKER_REGISTRY="${DOCKER_REGISTRY:-docker.merkator.com}"
7 DOCKER_USER="${DOCKER_USER:-merkator}"
8 DOCKER_REPO="${DOCKER_REPO:-postgis}"
9 DOCKER_TAG="${DOCKER_TAG:-latest}"
10 POSTGRES_USER="${1:-postgres}"
11 POSTGRES_PASSWORD="${2:-postgres}"
12 POSTGRES_DB="${3:-$DOCKER_USER}"
13 CONTAINER="${POSTGIS_CONTAINER:-$DOCKER_USER-pg}"
14 DOCKER_BINDS_DIR="${DOCKER_BINDS_DIR:-d:/Docker/binds}"
15 NETWORK_NAME="${NETWORK_NAME:-$DOCKER_USER-net}"
16
17 IMAGE="${DOCKER_REGISTRY}/${DOCKER_USER}/${DOCKER_REPO}:${DOCKER_TAG}"
18
19 mkdir -p "${DOCKER_BINDS_DIR}/secrets"
20 mkdir -p "${DOCKER_BINDS_DIR}/fileport"
21 mkdir -p "${DOCKER_BINDS_DIR}/runner"
22 mkdir -p "${DOCKER_BINDS_DIR}/certificates"
23
24 echo; echo "Running $CONTAINER from $IMAGE"
25 HERE=$(dirname "$0")
26 if ("$HERE/../rename.sh" "$IMAGE" "$CONTAINER"); then
27     "$HERE/../network.sh"
28     docker volume create pgdata
29     docker run --name $CONTAINER \
30         -e PROXY=https://$PROXY_HOST:$PROXY_PORT \
31         -e POSTGRES_PASSWORD=$POSTGRES_PASSWORD \
32         -e POSTGRES_DB=$POSTGRES_DB \
33         -e POSTGRES_USER=$POSTGRES_USER \
34         -e POSTGIS_HOST=$POSTGIS_HOST \
35         -e CONTAINER=$CONTAINER \
36         -v $DOCKER_BINDS_DIR/secrets:/secrets \
37         -v $DOCKER_BINDS_DIR/certificates:/certificates \
38         -v $DOCKER_BINDS_DIR/fileport:/fileport \
39         -v $DOCKER_BINDS_DIR/runner:/util/runner/log \
40         --mount source=pgdata,target=/var/lib/postgresql/data \
41         -p $POSTGIS_PORT:5432 \
42         --network "$NETWORK_NAME" \
43         -d $IMAGE
44 fi
```

- ▼  klic
 - ▶  cron
 - ▶  geoserver
 - ▶  postfix
 - ▼  postgis
 - ▶  conf
 - /* build.sh
 -  Dockerfile
 - /* run.sh

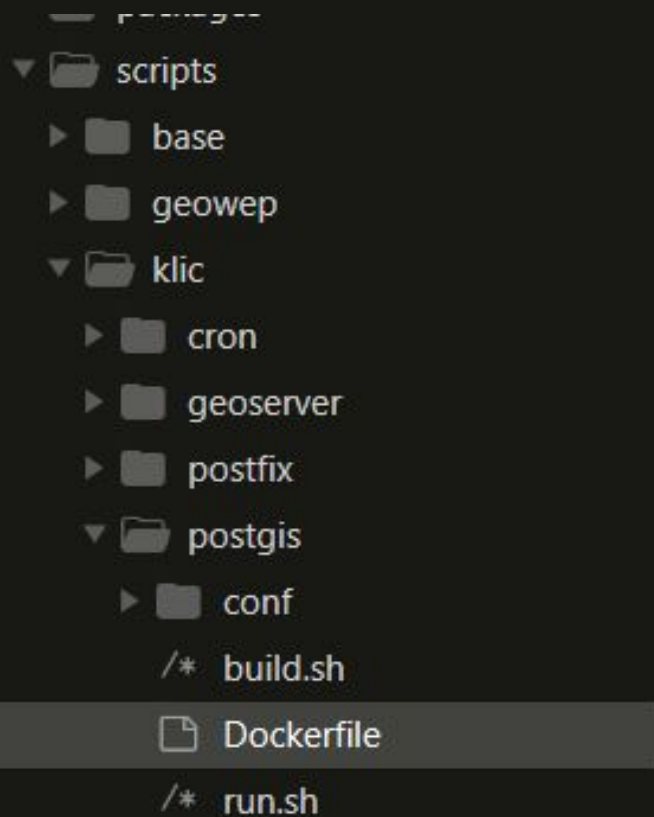
- ▼ scripts
 - ▶ base
 - ▶ geowep
 - ▼ klic
 - ▶ cron
 - ▶ geoserver
 - ▶ postfix
 - ▼ postgis
 - ▶ conf
 - /* build.sh
 - 📄 Dockerfile
 - /* run.sh



build.sh



```
1 #!/usr/bin/bash
2
3 export DOCKER_REPO="${DOCKER_REPO:-klic/postgis}"
4
5 HERE=$(dirname "$0")
6
7 "$HERE/../../base/postgis/build.sh"
8
```



Dockerfile



```
1 FROM docker.merkator.com/merkator/postgis
2
3 COPY conf /tmp/conf
4
```

- ▼ scripts
 - ▶ base
 - ▶ geowep
 - ▼ klic
 - ▶ cron
 - ▶ geoserver
 - ▶ postfix
 - ▼ postgis
 - ▶ conf
 - /* build.sh
 - Dockerfile
 - /* run.sh

```
run.sh x
1  #!/bin/bash
2
3  export DOCKER_REPO="${DOCKER_REPO:-klic-pg}"
4
5  POSTGRES_USER="${1:-postgres}"
6  POSTGRES_PASSWORD="${2:-postgres}"
7  POSTGRES_DB="${3:-$DOCKER_USER}"
8
9  HERE=$(dirname "$0")
10
11  "$HERE/../../base/postgis/run.sh" "$POSTGRES_USER" "$POSTGRES_PASSWORD" "$POSTGRES_DB"
12
```

▼ scripts

- ▶ base
- ▶ geowep
- ▼ klic
 - ▶ cron
 - ▶ geoserver
 - ▶ postfix
 - ▼ postgis
 - ▼ conf
 - ▼ klic
 - ▼ 1
 - /* schema.sql
 - /* 1.sh
 - /* **conf.sh**
 - /* build.sh
 - Dockerfile
 - /* run.sh

◀ ▶ *conf.sh* ✕

```
1 #!/bin/bash
2
3 schema.sh $(dirname "$0")
4
```

▼ scripts

▶ base

▶ geowep

▼ klic

▶ cron

▶ geoserver

▶ postfix

▼ postgis

▼ conf

▼ klic

▼ 1

/* schema.sql

/* 1.sh

/* conf.sh

/* build.sh

📄 Dockerfile

/* run.sh



1.sh

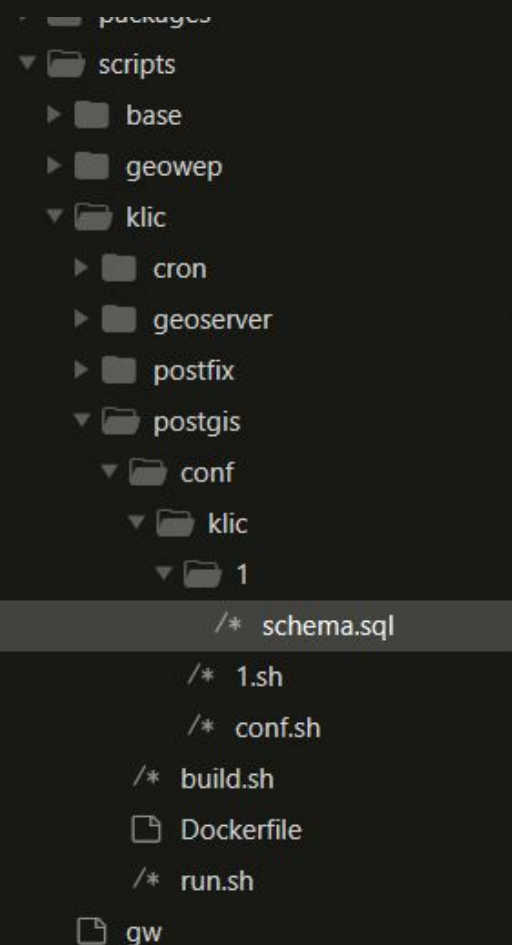


1 #!/bin/bash















2

3 pg.sh -f './1/schema.sql'

4



```
schema.sql x
1 CREATE SCHEMA klic;
2
3 CREATE TABLE klic.tbl_levering (
4     fid serial NOT NULL,
5     foreign_key text NOT NULL,
6     levering text NOT NULL,
7     meldingsoort text NOT NULL,
8     aanvraagdatum date NOT NULL,
9     geldigheidsduur interval NOT NULL DEFAULT interval '4 week',
10    bbox geometry(polygon,28992) NOT NULL,
11    gebiedspolygoon geometry(polygon,28992) NOT NULL,
12    tijdstip timestamp NOT NULL,
13    CONSTRAINT tbl_levering_pkey PRIMARY KEY (fid),
14    CONSTRAINT levering UNIQUE (levering)
15 );
16
17 CREATE INDEX spatial_levering_gebiedspolygoon
18 ON klic.tbl_levering USING gist
19 (gebiedspolygoon)
20 ;
21
```

- ▼  scripts
 - ▶  base
 - ▼  geowep
 - ▶  cron
 - ▶  geoserver
 - ▶  php
 - ▶  postfix
 - ▼  postgis
 - ▶  conf
 - /* build.sh
 -  Dockerfile
 - /* run.sh
 - ▶  proxy
 - ▶  run
 - ▶  klic
 -  gw

- ▼ scripts
 - ▶ base
 - ▼ geowep
 - ▶ cron
 - ▶ geoserver
 - ▶ php
 - ▶ postfix
 - ▼ postgis
 - ▶ conf
 - /* build.sh
 - Dockerfile
 - /* run.sh
 - ▶ proxy
 - ▶ run
 - ▶ klic
 - gw



build.sh



```
1 |#!/usr/bin/bash
2
3 export DOCKER_USER='geowep'
4 export DOCKER_REPO='postgis'
5
6 HERE=$(dirname "$0")
7
8 "$HERE/../../base/postgis/build.sh"
9
```

- ▼ scripts
 - ▶ base
 - ▼ geowep
 - ▶ cron
 - ▶ geoserver
 - ▶ php
 - ▶ postfix
 - ▼ postgis
 - ▶ conf
 - /* build.sh
 - Dockerfile
 - /* run.sh
 - ▶ proxy
 - ▶ run
 - ▶ klic
 - gw



Dockerfile



```
1 FROM docker.merkator.com/merkator/klic/postgis
2
3 ADD conf /tmp/conf
4
5 # FIXME (through whitelist env var in base image)
6 RUN echo 'host all all 83.137.149.209/32 md5' >> /etc/postgresql/pg_hba.conf; \
7     echo 'host all all 83.137.149.210/32 md5' >> /etc/postgresql/pg_hba.conf
8
```

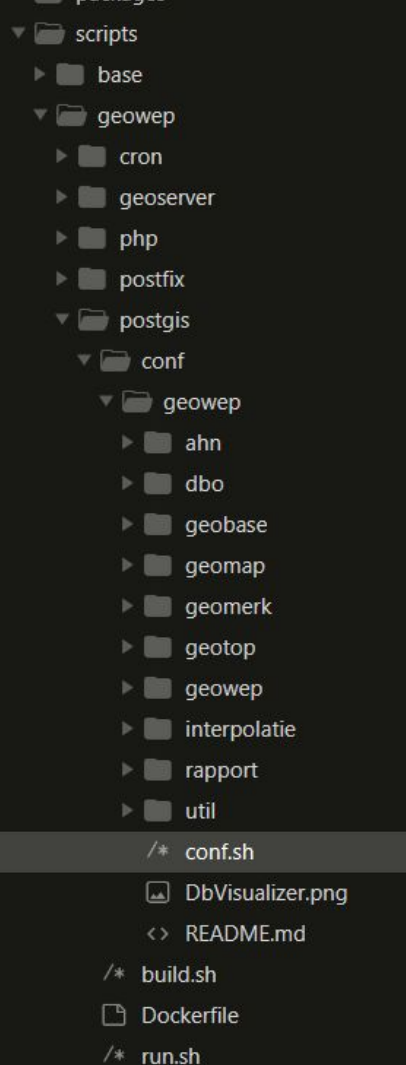
- ▼ scripts
 - ▶ base
 - ▼ geowep
 - ▶ cron
 - ▶ geoserver
 - ▶ php
 - ▶ postfix
 - ▼ postgis
 - ▶ conf
 - /* build.sh
 - Dockerfile
 - /* run.sh
 - ▶ proxy
 - ▶ run
 - ▶ klic
 - gw



run.sh

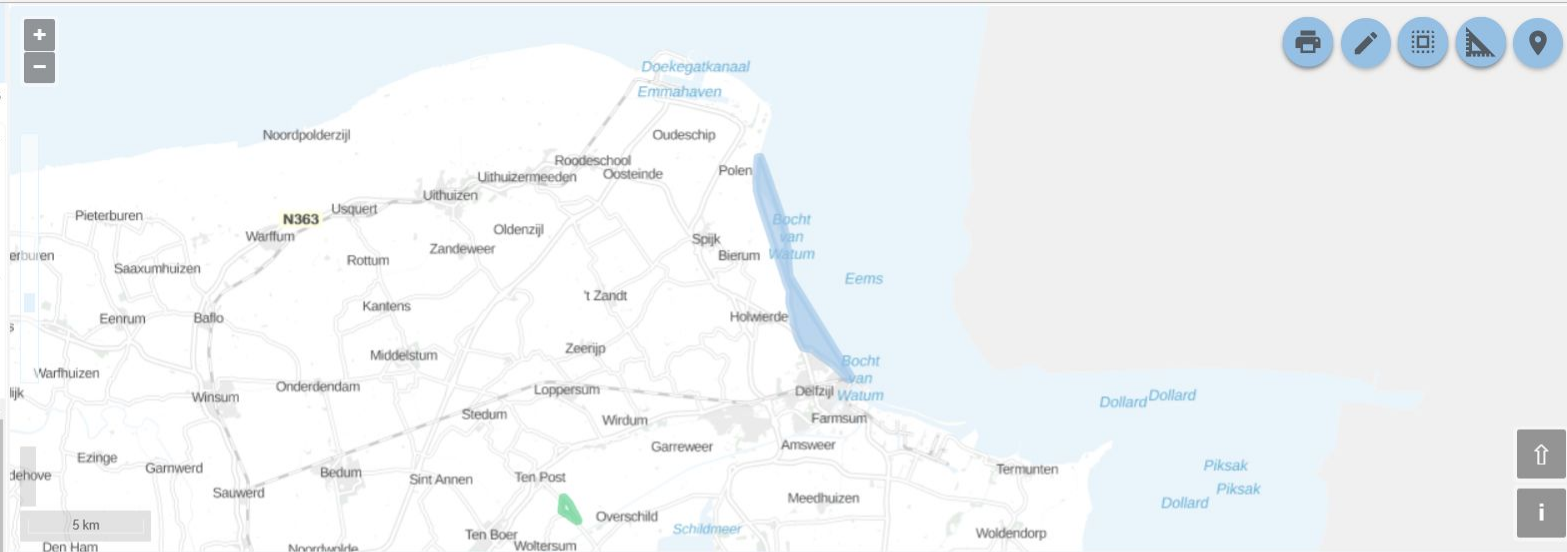


```
1 #!/bin/bash
2
3 export DOCKER_USER='geowep'
4 export DOCKER_REPO='postgis'
5
6 HERE=$(dirname "$0")
7
8 "$HERE/../../base/postgis/run.sh"
9
```



```
conf.sh
1  #!/bin/bash
2
3  here=$(dirname "$0")
4
5  schema.sh "${here}/dbo"
6  schema.sh "${here}/ahn"
7  schema.sh "${here}/geotop"
8  schema.sh "${here}/geomerk"
9  schema.sh "${here}/geomap"
10
11 "${here}/geobase/geobase.sh"
12 schema.sh "${here}/geowep"
13 schema.sh "${here}/interpolatie"
14
```


- 



VX-60158-1

ONDERZOEKEN

VOORBEREIDING

STREETSMART

DOCUMENTEN

Instrumentaria

- | | | |
|--|---------------|-----|
| <input type="radio"/> Wegdrukken midfilter (niet BRL) | <i>MF</i> | 0/0 |
| <input type="radio"/> Wegdrukken midikwaliteitsfilter BRL 2100 | <i>MF BRL</i> | 0/0 |
| <input type="radio"/> Aanbrengen en afwerken peilbuis | <i>PB</i> | 0/0 |
| <input type="radio"/> Aanbrengen en afwerken bron | <i>BR</i> | 0/0 |
| <input type="radio"/> Instrumentaria Not Specified /A | <i>I_NS</i> | 0/0 |
| <input type="radio"/> Plaatsen waterspanningsmeter (S) | <i>WSMS</i> | 0/0 |
| <input type="radio"/> Plaatsen waterspanningsmeter (B) | <i>WSMB</i> | 0/0 |

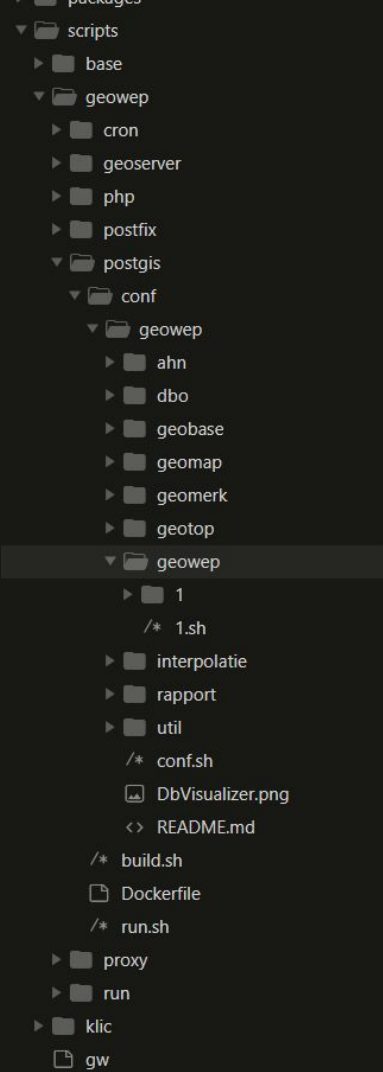
☒ Extra keuzes

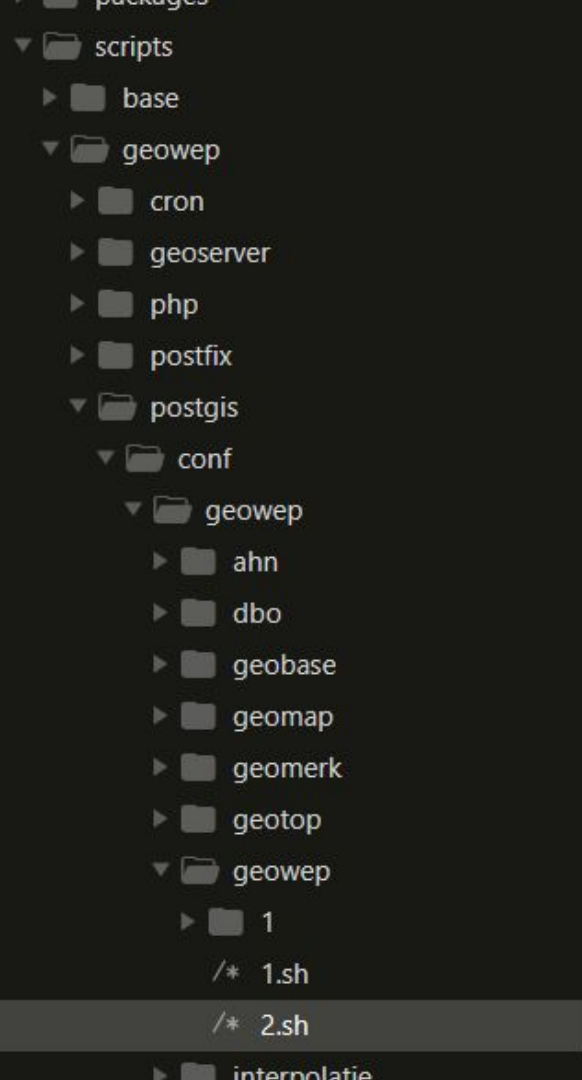
Projectleider: ?

Opsteller offerte: ?

Taakverantwoordelijke: ?







```
2.sh
1 #!/bin/bash
2
3 pg.sh -c "
4     update geowep.ref_onderzoekstype
5     set omschrijving = 'Boring Not Specified'
6     where naam = 'B_NS'
7 "
8 |
```

- ▼ packages
 - ▼ scripts
 - base
 - geowep
 - cron
 - geoserver
 - php
 - postfix
 - postgis
 - conf
 - geowep
 - ahn
 - dbo
 - geobase
 - geomap
 - geomerk
 - geotop
 - geowep
 - 1
 - /* 1.sh
 - /* 2.sh
 - interpolatie
 - rapport
 - util
 - /* conf.sh
 - DbVisualizer.png
 - README.md
 - /* build.sh
 - Dockerfile
 - /* run.sh
 - proxy
 - run
 - klic
 - gw

2.sh x gw x

```

82
83 # latest merkator/postgis no_container
84 # latest merkator/klic/postgis no_container
85 # cd "${scripts}/base/postgis"
86 # ./build.sh
87 # cd "${scripts}/klic/postgis"
88 # ./build.sh
89 cd "${scripts}/geowep/postgis"
90 ./build.sh
91
92 # latest merkator/geoserver no_container
93 # latest merkator/klic/geoserver no_container
94 # cd "${scripts}/base/geoserver"
95 # ./build.sh
96 # cd "${scripts}/klic/geoserver"
97 # ./build.sh
98 # cd "${scripts}/geowep/geoserver"
99 # ./build.sh
100
101 # latest merkator/cron no_container
102 # latest merkator/klic/cron no_container
103 # cd "${scripts}/base/cron"
104 # ./build.sh
105 # cd "${scripts}/klic/cron"
106 # ./build.sh
107 # cd "${scripts}/geowep/cron"
108 # ./build.sh
109
110 cd "${scripts}/geowep/run"
111 PROXY_TAG=1; POSTFIX_TAG=1; POSTGIS_TAG=2; GEOSERVER_TAG=1; CRON_TAG=1; PHP_TAG=1
112 ./build.sh "${PROXY_TAG}" "${POSTFIX_TAG}" "${POSTGIS_TAG}" "${GEOSERVER_TAG}" "${CRON_TAG}" "${PHP_TAG}"
113
114 # latest geowep/proxy "${PROXY_CONTAINER}"
115 # latest geowep/postfix "${POSTFIX_CONTAINER}"
116 # latest geowep/postgis "${POSTGIS_CONTAINER}"
117 # latest geowep/geoserver "${GEOSERVER_CONTAINER}"
118 # latest geowep/cron "${CRON_CONTAINER}"
119 # latest geowep/run no_container
120 # latest geowep/php "${PHP_CONTAINER}"
121

```

```
woute@wouter MINGW64 /d/svn/WiertsemaEnPartnersVS2015/scripts
```

```
$ ./gw build 2
```

```
Building docker.merkator.com/geowep/postgis:2
```

```
geowep-pg
```

```
Sending build context to Docker daemon 317MB
```

```
Step 1/3 : FROM docker.merkator.com/merkator/klic/postgis
```

```
---> 4b5d9faea26c
```

```
Step 2/3 : ADD conf /tmp/conf
```

```
---> 9060540d4d51
```

```
Step 3/3 : RUN echo 'host all all 83.137.149.209/32 md5' >> /etc/postgresql/pg_hba.conf; ec
```

```
---> Running in 5af836d71922
```

```
Removing intermediate container 5af836d71922
```

```
---> 4fdada6a0583
```

```
Successfully built 4fdada6a0583
```

```
Successfully tagged docker.merkator.com/geowep/postgis:2
```

```
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host.  
check and reset permissions for sensitive files and directories.
```

```
Building docker.merkator.com/geowep/run:2
```

```
Sending build context to Docker daemon 29.18kB
```

```
Step 1/5 : FROM docker.merkator.com/library/alpine:3.7
```

```
---> 3fd9065eaf02
```

```
Step 2/5 : COPY conf /tmp/conf
```

```
---> Using cache
```

```
---> e79c7bd7e071
```

```
Step 3/5 : RUN mv /tmp/conf/entrypoint/* /
```

```
---> Using cache
```

```
---> 49080d6a839a
```

```
Step 4/5 : ENTRYPOINT ["/entrypoint"]
```

```
---> Using cache
```

```
---> de1f7150d0b8
```

```
Step 5/5 : CMD ["run"]
```

```
---> Using cache
```

```
---> 3c7caa52129b
```

```
Successfully built 3c7caa52129b
```

```
Successfully tagged docker.merkator.com/geowep/run:2
```

```
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host.  
check and reset permissions for sensitive files and directories.
```

About to run geowep version: 2

With these settings:

PROXY_HOST=localhost.merkator.com

DOCKER_BINDS_DIR=d:/Docker/binds

DOCKER_REGISTRY=docker.merkator.com/

NETWORK_NAME=geowep-net

POSTGIS_PORT=5432

POSTFIX_PORT=25

PROXY_PORT=7443

APP=https://wouter/app/

API=https://wouter/api/

HOMEDEST=/app/html/main/main.html

Press any key to continue...

Executing docker.merkator.com/geowep/run:2

Running geowep-px from docker.merkator.com/geowep/proxy:1
geowep-px

Running geowep-pf from docker.merkator.com/geowep/postfix:1
geowep-pf

Running geowep-pg from docker.merkator.com/geowep/postgis:2
pgdata
73cbfa676b024b4d45aecc87de49c7c1516a7ad7b73f11a9a44f04c4ee0bf2f

Running geowep-gs from docker.merkator.com/geowep/geoserver:1
geowep-gs

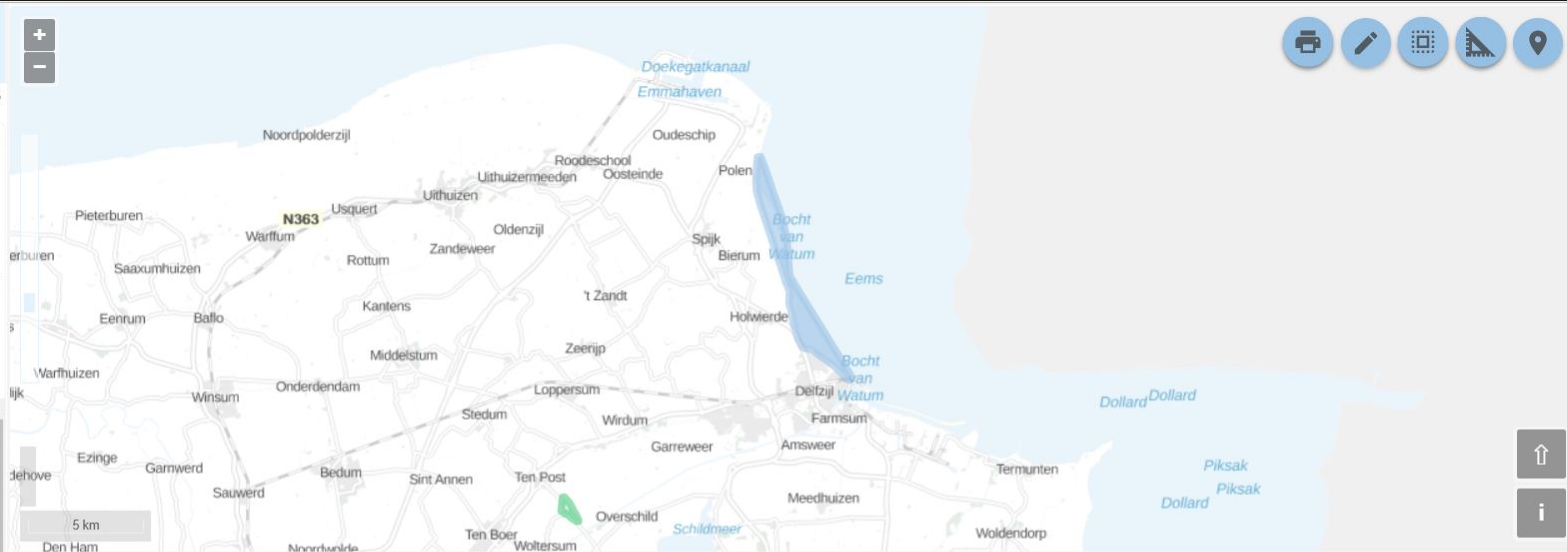
Running geowep-cr from docker.merkator.com/geowep/cron:1
geowep-cr

Running geowep-pp from docker.merkator.com/geowep/php:1
geowep-pp

woute@wouter MINGW64 /d/svn/WiertsemaEnPartnersVS2015/scripts

\$ |

- 



VX-60158-1

ONDERZOEKEN

VOORBEREIDING

STREETSMART

DOCUMENTEN

1

- 1

Projectleider: ?

Opsteller offerte: ?

Taakverantwoordelijke: ?




```
woute@wouter MINGW64 /d/svn/WiertsemaEnPartnersVS2015/scripts
$ docker image push docker.merkator.com/geowep/postgis:2
The push refers to repository [docker.merkator.com/geowep/postgis]
```

```
5bcfe48a2138: Preparing
135e904783cc: Preparing
ea8dba299385: Preparing
166fbf946510: Preparing
5a6a072db3f1: Layer already exists
5bcfe48a2138: Pushed
91ee1bd96a23: Layer already exists
84fc35bb227d: Layer already exists
c5f104e54637: Layer already exists
8165c7018c0b: Layer already exists
10cb63a38754: Layer already exists
9a31be9982e6: Layer already exists
64519acdb9c3: Layer already exists
057f8f3b366f: Layer already exists
9dfa40a0da3b: Layer already exists
```

```
135e904783cc: Pushed
2: digest: sha256:be8b9ac561ba203c286566f9ae2d868da2a03d330af76bc63307b5ffae49e147 size: 5759
```

```
woute@wouter MINGW64 /d/svn/WiertsemaEnPartnersVS2015/scripts
$ docker image push docker.merkator.com/geowep/run:2
The push refers to repository [docker.merkator.com/geowep/run]
```

```
2a2a654c43f7: Preparing
98c85cc92948: Preparing
cd7100a72410: Preparing
cd7100a72410: Layer already exists
2a2a654c43f7: Pushed
98c85cc92948: Pushed
```

```
2: digest: sha256:6848324fcea97670cba2c24c00f7ac039f35e446042a12c6ca1ba6371e71f703 size: 943
```

```
woute@wouter MINGW64 /d/svn/WiertsemaEnPartnersVS2015/scripts
$
```

Using username "root".

Authenticating with public key "rsa-key-20180409" from agent

```
- Hostname:          wiertsema-vm2.duocast.net
- Distribution:      Debian GNU/Linux 9.4 (stretch)
- Uptime:            4 weeks, 6 days, 11 hours, 19 minutes
- Last login:        Tue Jul 10 21:46:32 2018 from 83.83.178.123
- Last supportlog:
- Type of SLA:       undefined
- Backup definition: dagobert.duocast.net
```

Linux wiertsema-vm2 4.9.0-6-amd64 #1 SMP Debian 4.9.88-1+deb9u1 (2018-05-07) x86_64

Last login: Tue Jul 10 21:46:32 2018 from 83.83.178.123

root@wiertsema-vm2:~# ./gwrn 2

About to run geowep version: 2

With these settings:

PROXY_HOST=tst.geowep.nl

DOCKER_BINDS_DIR=/docker-binds

DOCKER_REGISTRY=docker.merkator.com/

NETWORK_NAME=geowep-net

POSTGIS_PORT=5432

POSTFIX_PORT=25

PROXY_PORT=443

APP=https://iasptst.geowep.nl/PortalPages/

API=https://iasptst.geowep.nl/PortalService/

HOMEDEST=/app/html/main/main.html

Press any key to continue...

```
Executing docker.merkator.com/geowep/run:2
Unable to find image 'docker.merkator.com/geowep/run:2' locally
2: Pulling from geowep/run
ff3a5c916c92: Already exists
8877fdaf92b9: Pull complete
e9d31fb99264: Pull complete
Digest: sha256:d113047318fbae08eced466396914e1a4731461b8ef619de55320bf972865b35
Status: Downloaded newer image for docker.merkator.com/geowep/run:2
```

```
Running geowep-px from docker.merkator.com/geowep/proxy:1
geowep-px
```

```
Running geowep-pf from docker.merkator.com/geowep/postfix:1
geowep-pf
```

```
Running geowep-pg from docker.merkator.com/geowep/postgis:2
geowep-pg
pgdata
Unable to find image 'docker.merkator.com/geowep/postgis:2' locally
2: Pulling from geowep/postgis
Digest: sha256:92fbe8f53db8b195aff53dfadc10db00bb5e41e20cbd839428261083afe6335b
Status: Downloaded newer image for docker.merkator.com/geowep/postgis:2
8605363b528ba43a866c3212b9b72e1e067968e2c7ccb009d4d01be38be19b0a
```

```
Running geowep-gs from docker.merkator.com/geowep/geoserver:1
geowep-gs
```

```
Running geowep-cr from docker.merkator.com/geowep/cron:1
geowep-cr
```

```
Running geowep-pp from docker.merkator.com/geowep/php:1
geowep-pp
root@wiertsema-vm2:~#
```


GeoWEP

60158-1

GeoWEP

Meetpunten

Projecten

Projectkaartlagen

Plantekeningen

KLIC

Open data kaartlagen

Kadastrale kaart

BAG

Dino CPT

AHN

IKAW Monumenten

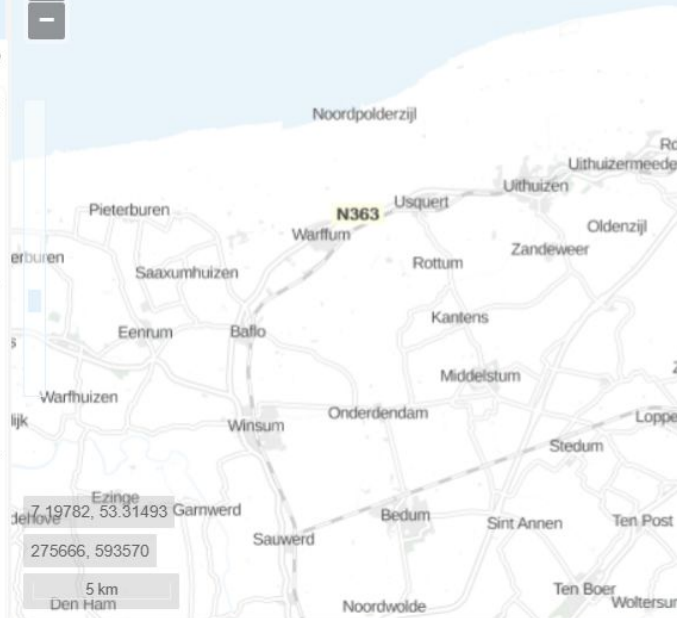
Archeologie

Pleistoceen oppervlak

Basiskaarten

BRT Grijstinten

BRT Kleur



VX-60158-1

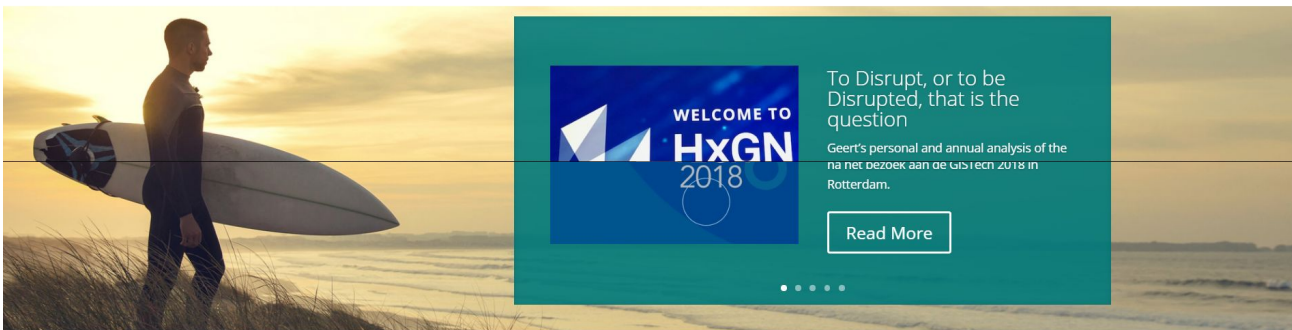
ONDERZOEKEN


VOORBEREIDING

Primaire onderzoeken

<input type="radio"/> DKMP (Pore pressure)	DKMP	346/0
<input type="radio"/> Boring Not Specified	B_NS	116/0
<input type="radio"/> DKM (Kleefmeting)	DKM	0/0
<input type="radio"/> DKMG (Geleidbaarheid)	DKMG	0/0
<input type="radio"/> DKMPM (Pore pressure + Magnetometer)	DKMPM	0/0

Merkator helps you optimize your Geospatial workflows





WELCOME TO
HxGN
2018

To Disrupt, or to be
Disrupted, that is the
question

Geert's personal and annual analysis of the
na net bezoek aan de G1511en 2018 in
Rotterdam.

Read More

Neem contact op

Laat ons weten of je interesse hebt om met ons samen te werken. We nemen zo snel als mogelijk contact met je op!

Contact



Wouter Scherphof

Change Management On
Steroids



Merkator



Het Mediationgilde

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