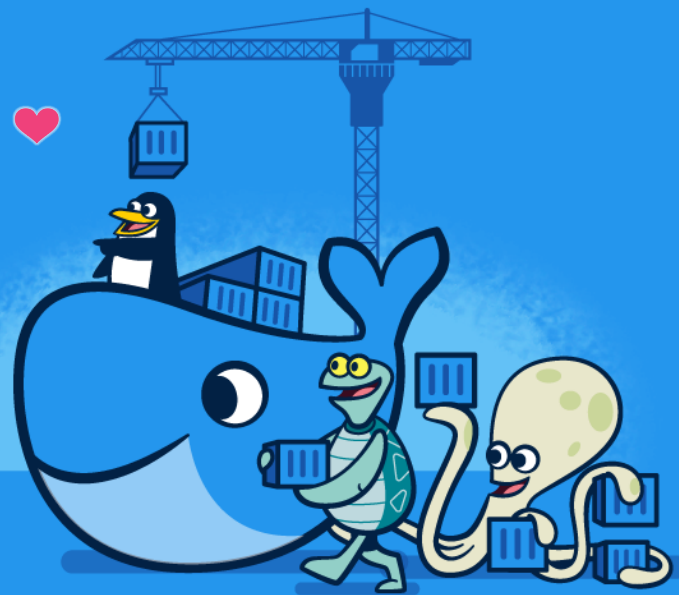


Docker

és térinformatika



... mert az izoláció nem csak COVID idején lehet hasznos



Hogy használjuk a gépünket?

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



Hogy használjuk a gépünket?

1. Veszünk/telepítünk egy új gépet

2.

3.

4.

5.

6.

7.

8.

9.

10.



Hogy használjuk a gépünket?

1. Vesszünk/telepítünk egy új gépet
2. Teleszemeteljük szoftverekkel
- 3.
- 4.
- 5.
- 6.
- 7.
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Hogy használjuk a gépünket?

1. Veszünk/telepítünk egy új gépet
2. Teleszemeteljük szoftverekkel
3. Próbálunk úrrá lenni a káoszon
- 4.
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- 7.
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Hogy használjuk a gépünket?

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- 5.
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Hogy használjuk a gépünket?

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Hogy használjuk a gépünket?

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- 10.

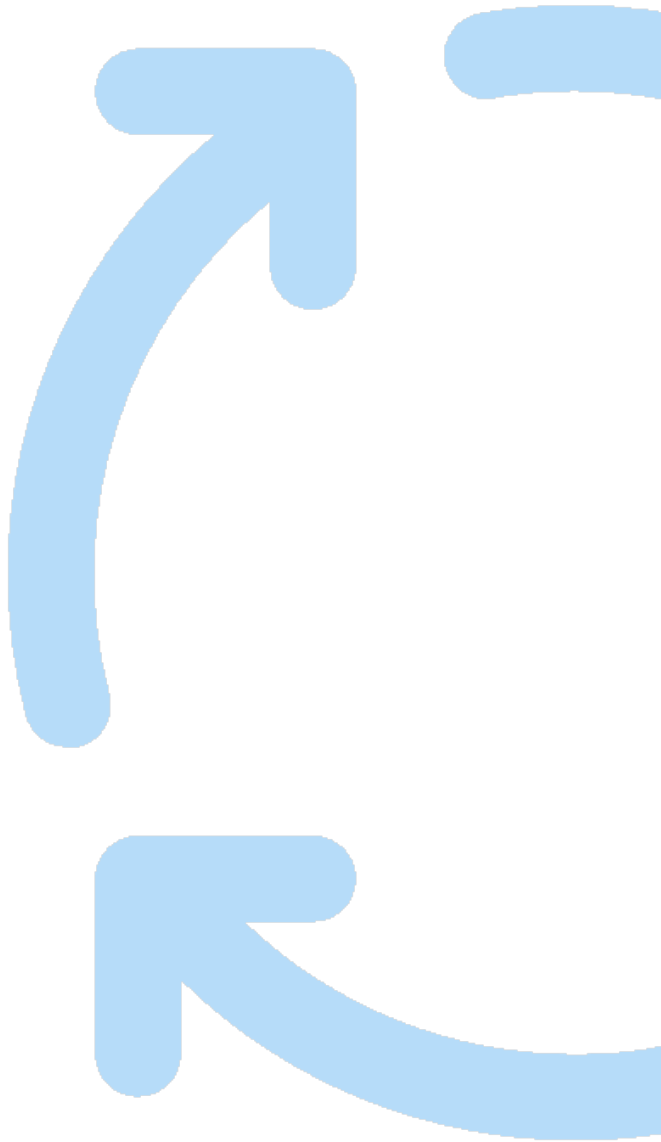


Hogy használjuk a gépünket?

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10. Újrahúzzuk

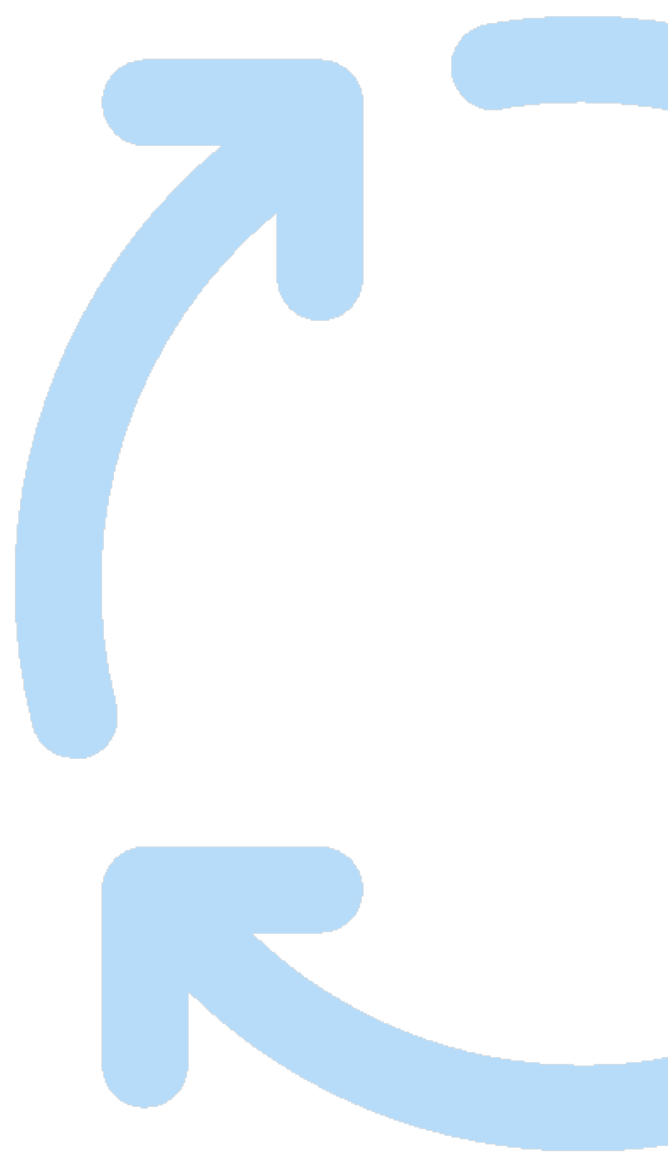
Hogy használjuk a gépünket?

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10. Újrahúzzuk



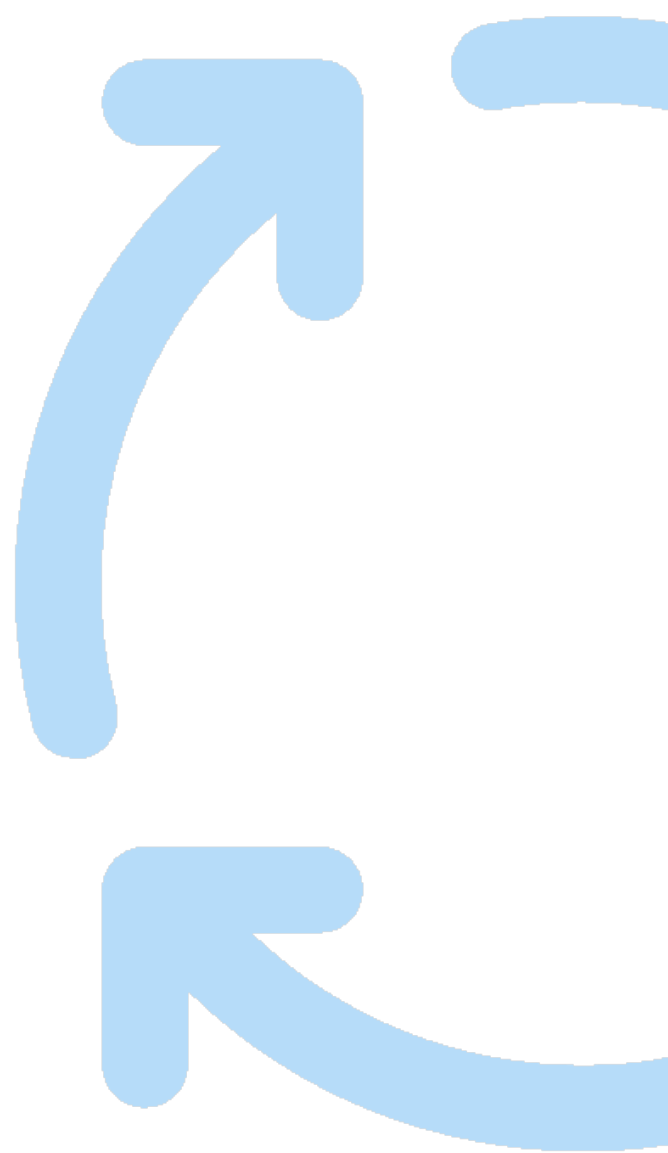
Hol rontottuk el?

1. Veszünk/telepítünk egy új gépet
2. Teleszemeteljük szoftverekkel
3. Próbálunk úrrá lenni a káoszon
4. Újrahúzzuk
5. Teleszemeteljük szoftverekkel
6. Próbálunk úrrá lenni a káoszon
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8. Teleszemeteljük szoftverekkel
9. Próbálunk úrrá lenni a káoszon
10. Újrahúzzuk



Hol rontottuk el?

1. Veszünk/telepítünk egy új gépet
2. **Teleszemeteljük szoftverekkel**
3. Próbálunk úrrá lenni a káoszon
4. Újrahúzzuk
5. Teleszemeteljük szoftverekkel
6. Próbálunk úrrá lenni a káoszon
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8. Teleszemeteljük szoftverekkel
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10. Újrahúzzuk





Hogyan kerülhettük volna el?

- 1.
 - 2.
- 



Hogyan kerülhettük volna el?

1. Nem telepítünk szoftvereket
 - 2.
- 



Hogyan kerülhettük volna el?

1. Nem telepítünk szoftvereket
 2. Nem hagyjuk, hogy veszekedjenek a szoftverek
- 



Hogyan kerülhettük volna el?

1. Nem telepítünk szoftvereket
 2. Nem hagyjuk, hogy veszekedjenek a szoftverek
- 
- A large yellow circle is positioned on the right side of the slide. Several smaller yellow rounded rectangular shapes are scattered around it, some overlapping the circle and others floating in the background.

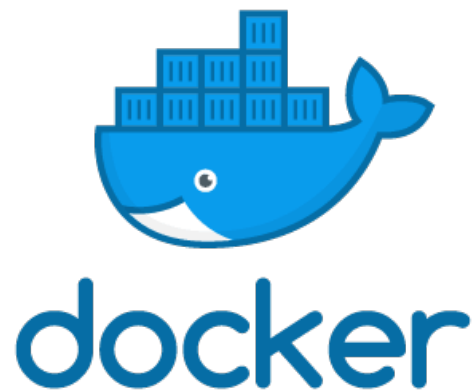
Izoláció

Szoftverek nem közösködnek



Izoláció

Szoftverek nem közösködnek





Fogalomtár

Container

Image

Dockerfile





Container





Container

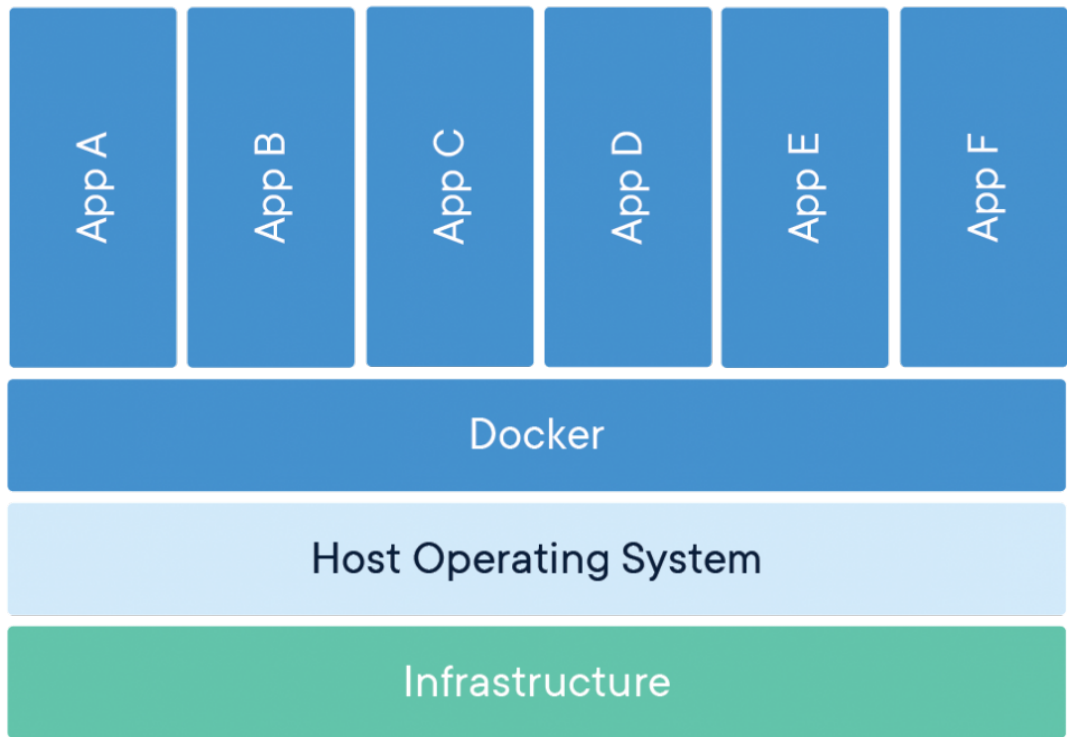
„A container is a standard unit of software that packages up code and all its dependencies so the application runs reliably from one computing environment to another. A Docker container image is a lightweight, standalone, executable package of software that includes everything needed to run an application: code, runtime, system tools, system libraries and settings.”





Container

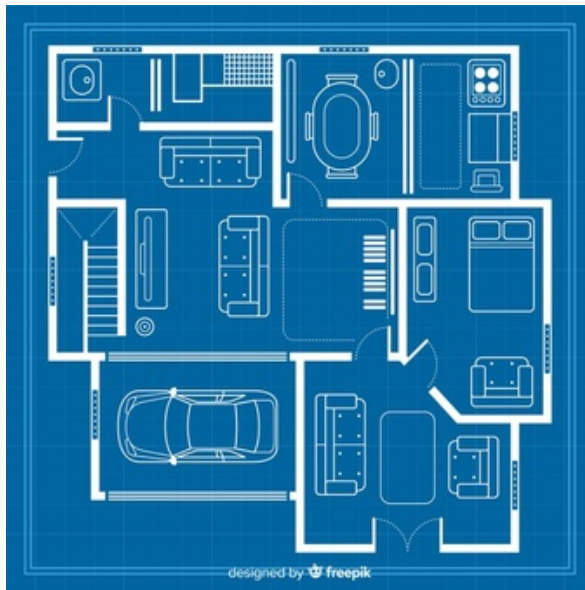
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Image

A Docker image is a read-only **template** that contains a **set of instructions** for **creating a container** that can run on the Docker platform.





Dockerfile

A Dockerfile is a **text document** that contains all the **commands** a user could call on the command line to **assemble an image**

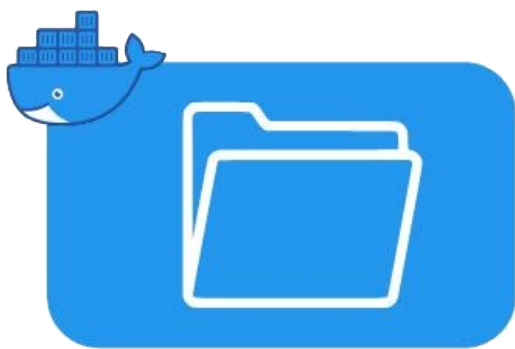
 Dockerfile ●

 Dockerfile > ...

```
1  # set base image (host OS)
2  FROM python:3.9.9
3
4  # install dependencies
5  RUN pip install Flask==2.0.2
6
7  # copy the content of the local src directory to
   the working directory
8  COPY app.py .
9
10 # command to run on container start
11 CMD [ "python", "./app.py" ]
12
13
```

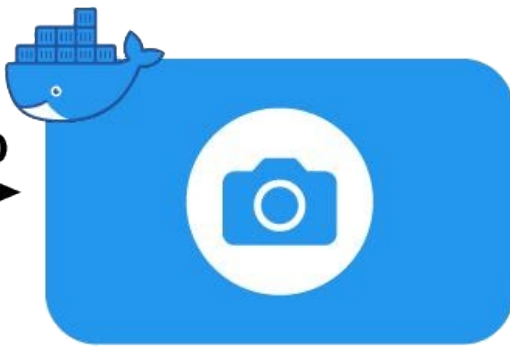


A folyamat



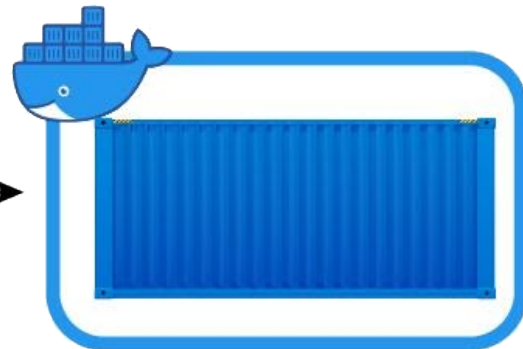
Docker File

BUILD



Docker Image

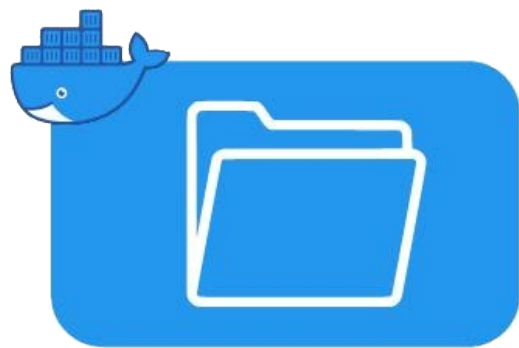
RUN



Docker Container

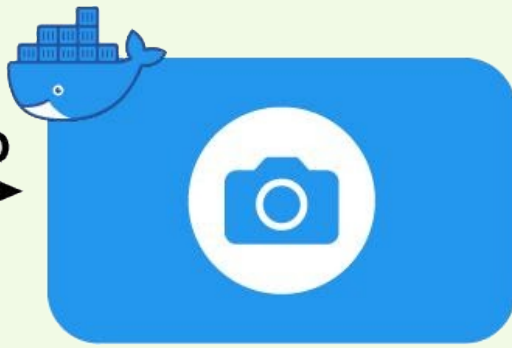


A folyamat



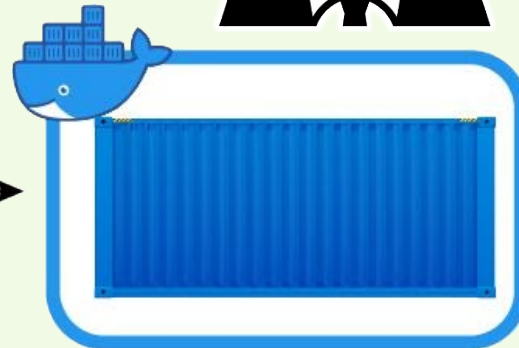
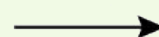
Docker File

BUILD



Docker Image

RUN



Docker Container

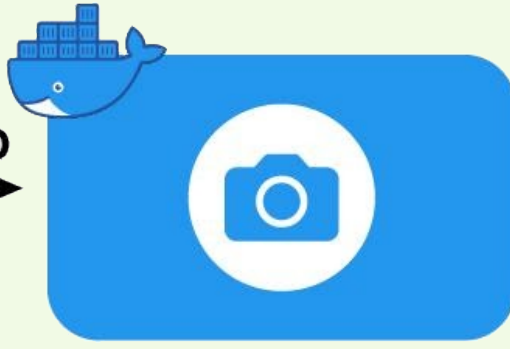


A folyamat



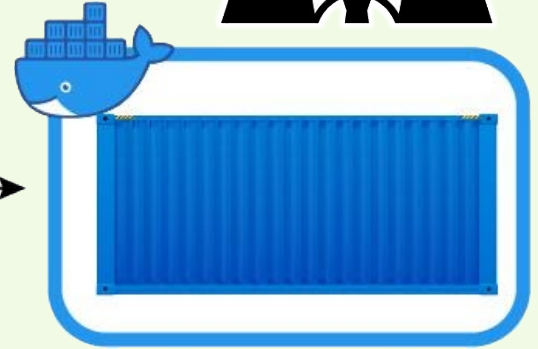
Docker File

BUILD



Docker Image

RUN



Docker Container





Mapserver futtatása



„detached” mód



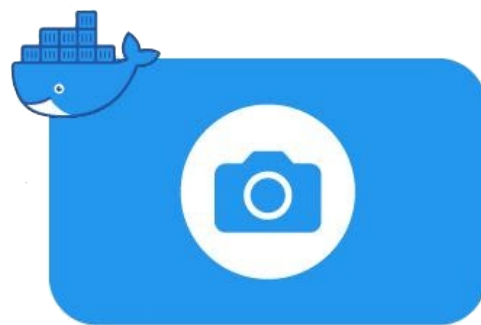
```
docker run -d -p 8080:80 camptocamp/mapserver:latest
```

↑
Docker parancs

↑
Port mapping

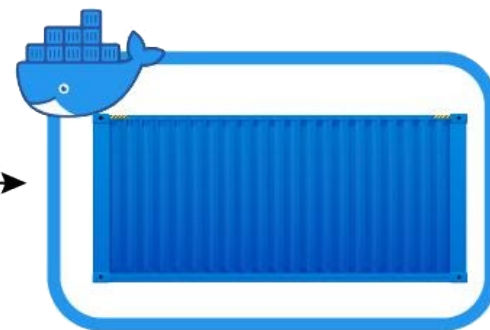
↑
Docker image

↑
Docker image verzió



Docker Image

RUN
→



Docker Container



Mapserver futtatása



„detached” mód



```
docker run -d -p 8080:80 camptocamp/mapserver:latest
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↑
Docker parancs

↑
Port mapping

↑
Docker image

↑
Docker image verzió

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects
padanyi-gulyasg@DESKTOP-829SGR6:/opt/projects$ docker run -d -p 8080:80 camptocamp/mapserver:latest
Unable to find image 'camptocamp/mapserver:latest' locally
latest: Pulling from camptocamp/mapserver
d51af753c3d3: Pull complete
fc878cd0a91c: Pull complete
5154df8ff988: Pull complete
fee5db0ff82f: Pull complete
9ec05610f4a3: Pull complete
899c6df8d636: Pull complete
3c13190bed10: Pull complete
2edb76af14f7: Pull complete
cfb5a7cdaf2c: Pull complete
513e2a5404fa: Pull complete
436950c9ca78: Pull complete
71973f1188c2: Pull complete
69171da29a15: Pull complete
c86f6e0573da: Pull complete
87c5ff696f19: Pull complete
a55df2a84be6: Pull complete
f8a8183032ff: Pull complete
bc732f8960ba: Pull complete
d4479dbf6add: Pull complete
5f5001c02d14: Pull complete
aa176c988c4d: Pull complete
68eecc49e468: Pull complete
618e3ee61815: Pull complete
Digest: sha256:30d4cf2ec7a79a0471152879f58a19fbc079c018790941934951799fea4a21e9
Status: Downloaded newer image for camptocamp/mapserver:latest
984afdf6ba5574b65d16d81f8e7938aaecad2cf3e1dc04a5d117bedb0a7641bd
padanyi-gulyasg@DESKTOP-829SGR6:/opt/projects$
```



Mapserver futtatása



„detached” mód



```
docker run -d -p 8080:80 camptocamp/mapserver:latest
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Docker parancs

Port mapping

Docker image

Docker image verzió



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Mapserver futtatása



„detached” mód



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Docker parancs

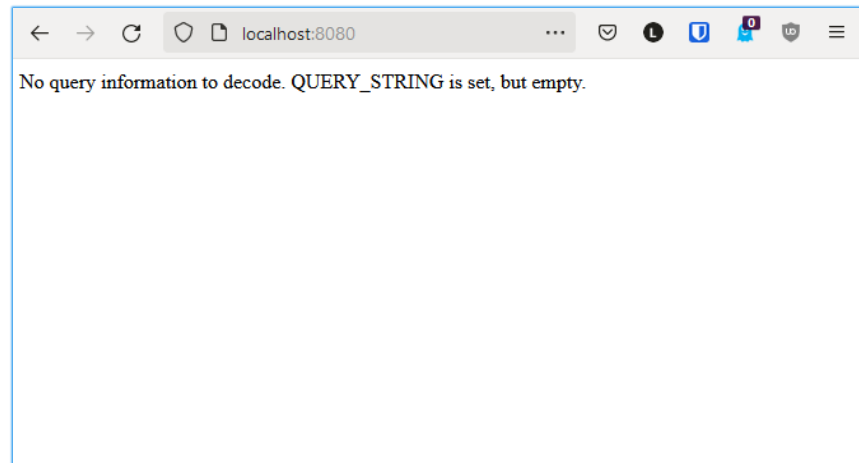
Port mapping

Docker image

Docker image verzió



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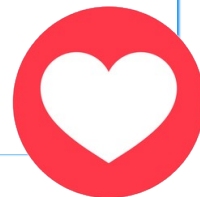
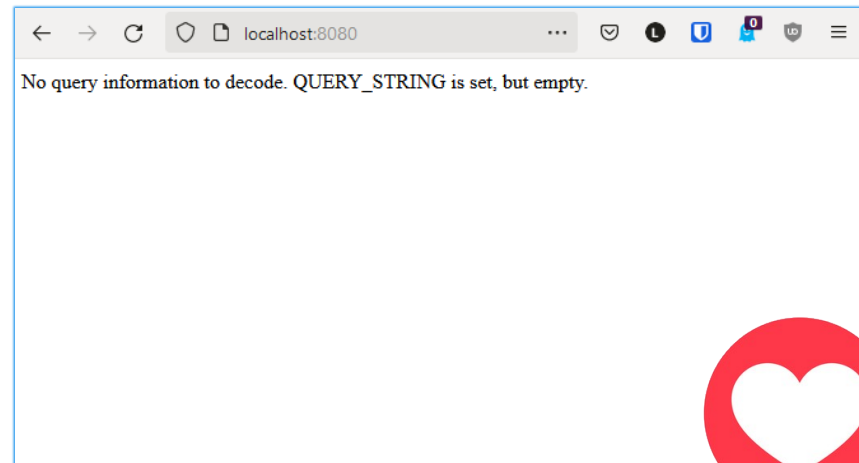
Port mapping

Docker image

Docker image verzió



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```





Mapserver leállítása



```
docker container ls
```

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects$ docker container ls
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
984afdf6ba55	camptocamp/mapserver:latest	"/docker-entrypoint ..."	5 minutes ago	Up 5 minutes	0.0.0.0:8080->80/tcp	dazzling_lalande

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects$
```



Mapserver leállítása



```
docker container ls
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Container ID:
984afdf6ba55

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Mapserver leállítása



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```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects$
```

```
docker stop 984afdf6ba55
```

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects$ docker container ls
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
984afdf6ba55	camptocamp/mapserver:latest	"/docker-entrypoint ..."	5 minutes ago	Up 5 minutes	0.0.0.0:8080->80/tcp	dazzling_lalande

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects$ docker stop 984afdf6ba55
984afdf6ba55
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects$
```

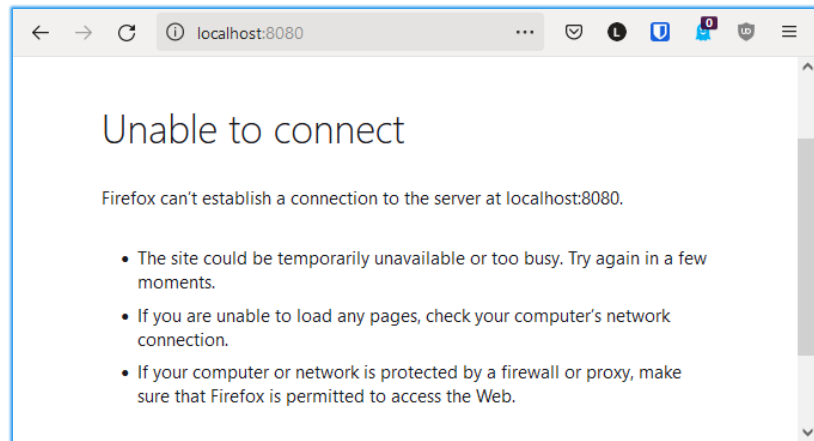


Mapserver leállítása

```
docker container ls
```

Container ID:
984afdf6ba55

```
docker stop 984afdf6ba55
```



```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects$ docker container ls
```

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```

```
984afdf6ba55
```

```
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Mapserver leállítása

```
docker container ls
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Container ID:
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docker stop 984afdf6ba55
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```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
984afdf6ba55	camptocamp/mapserver:latest	"/docker-entrypoint ..."	5 minutes ago	Up 5 minutes	0.0.0.0:8080->80/tcp	dazzling_lalande

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects$
```

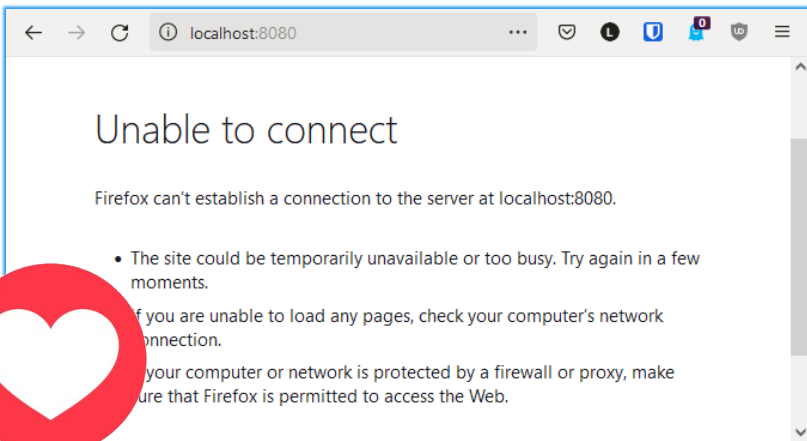
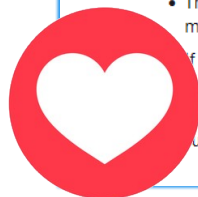
```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects$ docker container ls
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
984afdf6ba55	camptocamp/mapserver:latest	"/docker-entrypoint ..."	5 minutes ago	Up 5 minutes	0.0.0.0:8080->80/tcp	dazzling_lalande

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects$ docker stop 984afdf6ba55
```

```
984afdf6ba55
```

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects$
```





GDAL futtatása



```
docker pull osgeo/gdal:ubuntu-full-3.3.2
```

```
docker run osgeo/gdal:ubuntu-full-3.3.2 gdalinfo --version
```

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects
padanyi-gulyasg@DESKTOP-829SGR6:/opt/projects$ docker run osgeo/gdal:ubuntu-full-3.3.2 gdalinfo --version
GDAL 3.3.2, released 2021/09/01
padanyi-gulyasg@DESKTOP-829SGR6:/opt/projects$
```



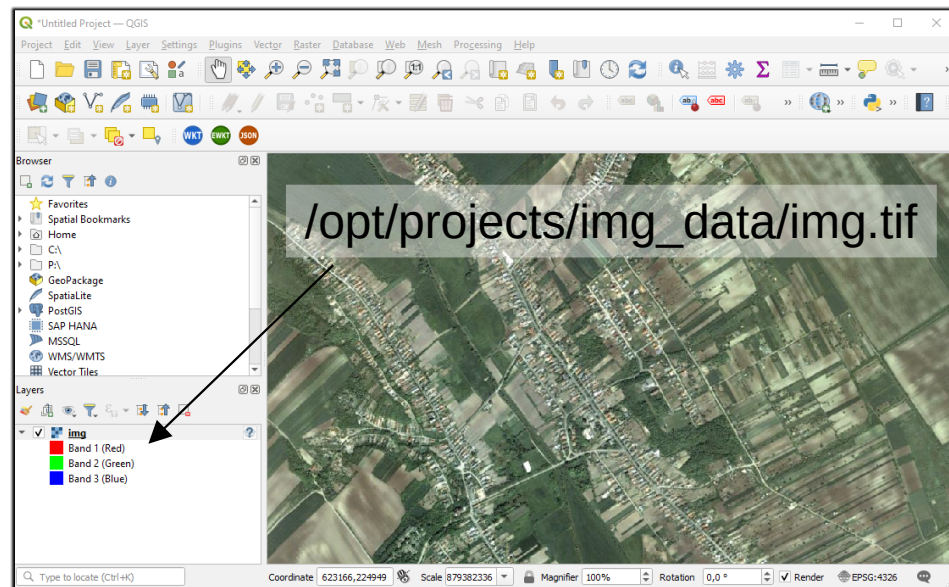
GDAL futtatása - mappa felcsatolás



„Külső” mappa

„Belső” mappa

```
docker run -v /opt/projects/img_data:/opt osgeo/gdal:ubuntu-  
full-3.3.2 gdalinfo /opt/img.tif
```





GDAL futtatása - mappa felcsatolás

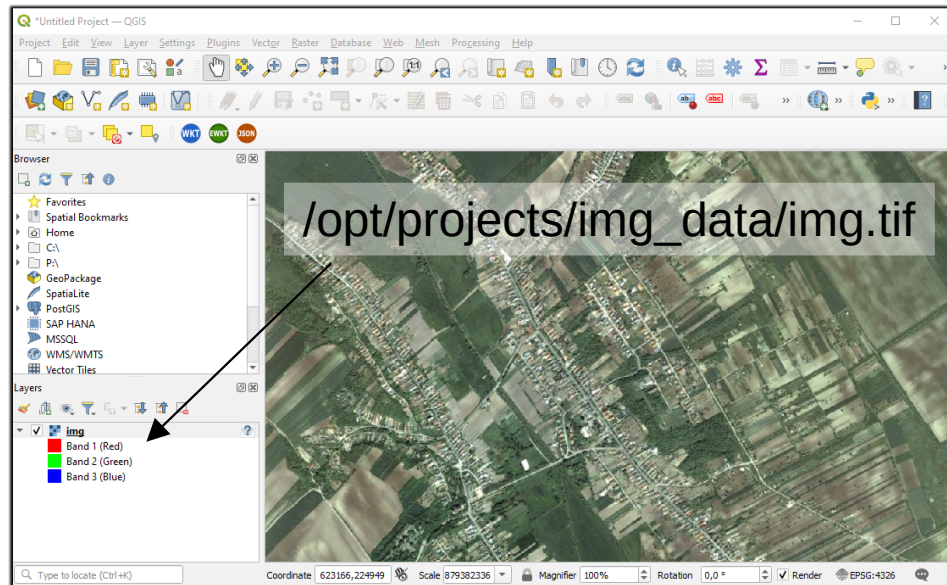


„Külső” mappa

„Belső” mappa

```
docker run -v /opt/projects/img_data:/opt osgeo/gdal:ubuntu-  
full-3.3.2 gdalinfo /opt/img.tif
```

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects  
padanyi-gulyasg@DESKTOP-829SGR6:/opt/projects$ docker run -v /opt/projects/img_data:  
/opt osgeo/gdal:ubuntu-full-3.3.2 gdalinfo /opt/img.tif  
Driver: GTiff/GeoTIFF  
Files: /opt/img.tif  
Size is 1478, 1145  
Origin = (619958.790785085759126, 225976.153608387219720)  
Pixel Size = (2.827727811038803, -2.827727811038803)  
Image Structure Metadata:  
  INTERLEAVE=PIXEL  
Corner Coordinates:  
Upper Left ( 619958.791, 225976.154)  
Lower Left ( 619958.791, 222738.405)  
Upper Right ( 624138.172, 225976.154)  
Lower Right ( 624138.172, 222738.405)  
Center ( 622048.482, 224357.279)  
Band 1 Block=1478x1 Type=Byte, ColorInterp=Red  
Band 2 Block=1478x1 Type=Byte, ColorInterp=Green  
Band 3 Block=1478x1 Type=Byte, ColorInterp=Blue  
padanyi-gulyasg@DESKTOP-829SGR6:/opt/projects$
```





PostGIS futtatása



```
docker pull postgis/postgis:14-master
```

```
docker run -p 5432:5432 postgis/postgis:14-master
```



PostGIS futtatása



```
docker pull postgis/postgis:14-master
```

```
docker run -p 5432:5432 postgis/postgis:14-master
```

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects/docker_python
padanyi-gulyasg@DESKTOP-829SGR6:/opt/projects/docker_python$ docker run -p 5432:5432 postgis/postgis:14-master
Error: Database is uninitialized and superuser password is not specified.
You must specify POSTGRES_PASSWORD to a non-empty value for the
superuser. For example, "-e POSTGRES_PASSWORD=password" on "docker run".

You may also use "POSTGRES_HOST_AUTH_METHOD=trust" to allow all
connections without a password. This is *not* recommended.

See PostgreSQL documentation about "trust":
https://www.postgresql.org/docs/current/auth-trust.html
padanyi-gulyasg@DESKTOP-829SGR6:/opt/projects/docker_python$
```



PostGIS futtatása



```
docker pull postgis/postgis:14-master
```

```
docker run -p 5432:5432 postgis/postgis:14-master
```

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects/docker_python
padanyi-gulyasg@DESKTOP-829SGR6:/opt/projects/docker_python$ docker run -p 5432:5432 postgis/postgis:14-master
Error: Database is uninitialized and superuser password is not specified.
You must specify POSTGRES_PASSWORD to a non-empty value for the
superuser. For example, "-e POSTGRES_PASSWORD=password" on "docker run".

You may also use "POSTGRES_HOST_AUTH_METHOD=trust" to allow all
connections without a password. This is *not* recommended.

See PostgreSQL documentation about "trust":
https://www.postgresql.org/docs/current/auth-trust.html
padanyi-gulyasg@DESKTOP-829SGR6:/opt/projects/docker_python$
```





PostGIS futtatása – környezeti változó

```
docker run -p 5432:5432 -e POSTGRES_PASSWORD=abc123  
postgis/postgis:14-master
```

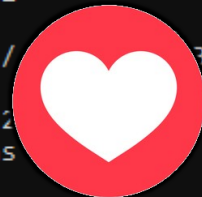
```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects/docker_python  
waiting for server to shut down...2021-11-24 20:23:51.765 UTC [48] LOG:  received fast shutdown  
request  
2021-11-24 20:23:51.770 UTC [48] LOG:  aborting any active transactions  
2021-11-24 20:23:51.771 UTC [48] LOG:  background worker "logical replication launcher" (PID 55)  
exited with exit code 1  
2021-11-24 20:23:51.773 UTC [50] LOG:  shutting down  
2021-11-24 20:23:51.921 UTC [48] LOG:  database system is shut down  
done  
server stopped  
  
PostgreSQL init process complete; ready for start up.  
  
2021-11-24 20:23:51.993 UTC [1] LOG:  starting PostgreSQL 14.1 (Debian 14.1-1.pgdg110+1) on x86_  
64-pc-linux-gnu, compiled by gcc (Debian 10.2.1-6) 10.2.1 20210110, 64-bit  
2021-11-24 20:23:51.994 UTC [1] LOG:  listening on IPv4 address "0.0.0.0", port 5432  
2021-11-24 20:23:51.994 UTC [1] LOG:  listening on IPv6 address ":::", port 5432  
2021-11-24 20:23:52.002 UTC [1] LOG:  listening on Unix socket "/var/run/postgresql/.s.PGSQL.543  
2"  
2021-11-24 20:23:52.010 UTC [67] LOG:  database system was shut down at 2021-11-24 20:23:51 UTC  
2021-11-24 20:23:52.017 UTC [1] LOG:  database system is ready to accept connections
```



PostGIS futtatása – környezeti változó

```
docker run -p 5432:5432 -e POSTGRES_PASSWORD=abc123  
postgis/postgis:14-master
```

```
padanyi-gulyasg@DESKTOP-829SGR6: /opt/projects/docker_python  
waiting for server to shut down...2021-11-24 20:23:51.765 UTC [48] LOG:  received fast shutdown  
request  
2021-11-24 20:23:51.770 UTC [48] LOG:  aborting any active transactions  
2021-11-24 20:23:51.771 UTC [48] LOG:  background worker "logical replication launcher" (PID 55)  
exited with exit code 1  
2021-11-24 20:23:51.773 UTC [50] LOG:  shutting down  
2021-11-24 20:23:51.921 UTC [48] LOG:  database system is shut down  
done  
server stopped  
  
PostgreSQL init process complete; ready for start up.  
  
2021-11-24 20:23:51.993 UTC [1] LOG:  starting PostgreSQL 14.1 (Debian 14.1-1.pgdg110+1) on x86_  
64-pc-linux-gnu, compiled by gcc (Debian 10.2.1-6) 10.2.1 20210110, 64-bit  
2021-11-24 20:23:51.994 UTC [1] LOG:  listening on IPv4 address "0.0.0.0", port 5432  
2021-11-24 20:23:51.994 UTC [1] LOG:  listening on IPv6 address ":::", port 5432  
2021-11-24 20:23:52.002 UTC [1] LOG:  listening on Unix socket "/var/run/postgresql/  
2"  
2021-11-24 20:23:52.010 UTC [67] LOG:  database system was shut down at 2021-11-24 2  
2021-11-24 20:23:52.017 UTC [1] LOG:  database system is ready to accept connections
```





PostGIS futtatása – környezeti változó



DBEaver 21.2.4 - <postgres> Script

File Edit Navigate Search SQL Editor Database Window Help

SQL Commit Rollback Auto postgres public@postgres

Database Navigator X Projects

Enter a part of object name here

- postgres - localhost:5432
 - postgres
 - Schemas
 - public
 - Tables
 - Views
 - Materialized Views
 - Indexes
 - Functions
 - Sequences
 - Data types
 - Aggregate functions
 - tiger
 - tiger_data
 - topology
 - Roles
 - Administer
 - Extensions
 - Storage
 - System Info

Project - General X

Name DataSource

- Bookmarks
- ER Diagrams

```
select version();  
  
select postgis_full_version();
```

Results 1 X

select postgis_full_version() Enter a SQL expression to filter results (use Ctrl+Space)

Grid	ADC postgis_full_version
1	POSTGIS="3.2.0dev 3.2.0beta1-21-g530f7c88c" [EXTENSION] PGSQL="140" GEOS="3.11.0dev-CAPI-1.16.0" PROJ="8.2.0" LIBXML="2.9.10" LIBJSOI

Save Cancel Script 200 1 Rows: 1

1 row(s) fetched - 17ms

CET en Writable Smart Insert 3 : 18 : 38 Sel: 0 | 0



Ha nem fut a gépeden



Framework for Operational Radiometric Correction for Environmental Monitoring



Ha nem fut a gépeden



The software was developed and tested under Ubuntu 12.04 LTS, 14.04 LTS, 16.04 LTS, and 18.04 LTS operating systems. Note that we do not provide support for migrating the code to any other OS.





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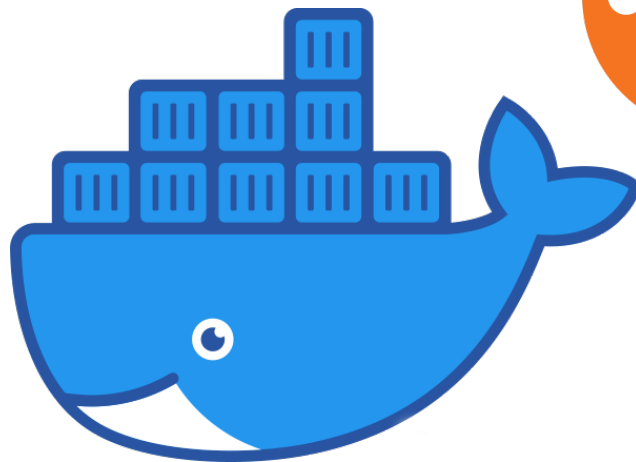




Ha nem fut a gépeden



The software was developed and tested under Ubuntu 12.04 LTS, 14.04 LTS, 16.04 LTS, and 18.04 LTS operating systems. Note that we do not provide support for migrating the code to any other OS.

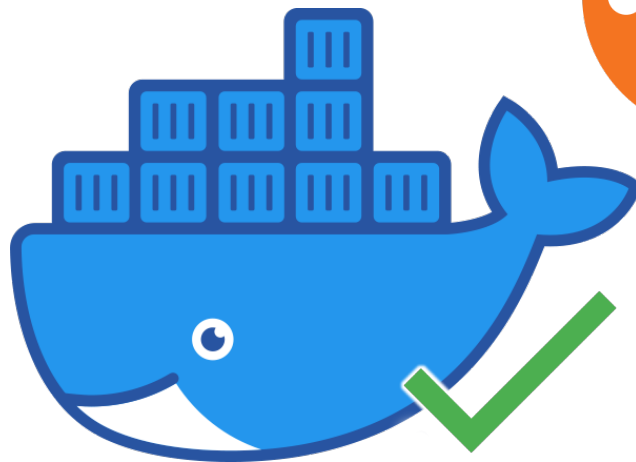




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Ha nem fut a gépeden



```
18 # You should have received a copy of the GNU General Public License
19 # along with FORCE. If not, see <http://www.gnu.org/licenses/>.
20 #
21 #####
22
23 # Copyright (C) 2020-2021 Gergely Padányi-Gulyás (github user fegyio01),
24 #                               David Frantz
25 #                               Fabian Lehmann
26
27
28 # base installation to speed up build process
29 # https://github.com/davidfrantz/base\_image
30 FROM davidfrantz/base:latest as force_builder
31
32 # Environment variables
33 ENV SOURCE_DIR $HOME/src/force
34 ENV INSTALL_DIR $HOME/bin
```



Ha nem fut a gépeden



```
18 # You should have received a copy of the GNU General Public License
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21 #####
22
23 # Copyright (C) 2020-2021 Gergely Padányi-Gulyás (github user fegyio01),
24 #                               David Frantz
25 #                               Fabian Lehmann
26
27
28 # base installation to speed up build process
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30 FROM davidfrantz/base:latest as force_builder
31
32 # Environment variables
33 ENV SOURCE_DIR $HOME/src/force
34 ENV INSTALL_DIR $HOME/bin
```



<https://github.com/davidfrantz/force>



Ha nem fut a gépeden



 **dockerhub**

Search for great content (e.g., mysql)

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 fegy001 ▾

Explore > davidfrantz/force >



davidfrantz/force ☆

By [davidfrantz](#) • Updated a day ago

Framework for Operational Radiometric Correction for Environmental monitoring

Container

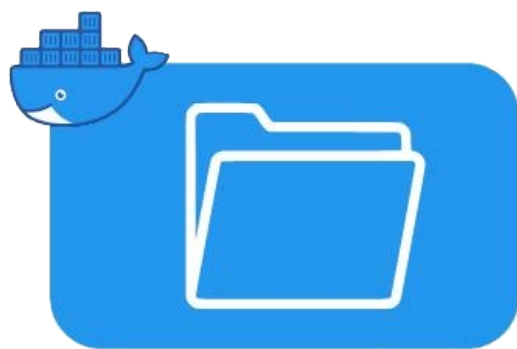
↓ Pulls **10K+**



↓ Pulls **10K+**

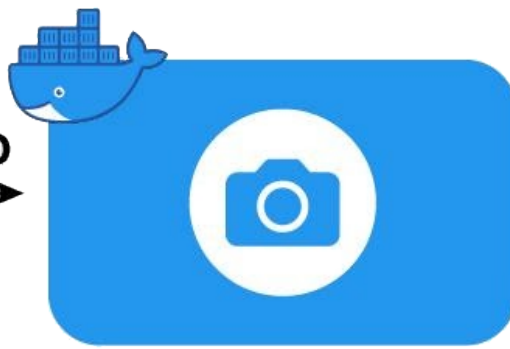


Nincs más hátra...



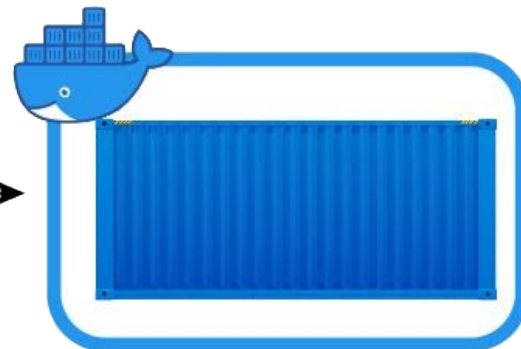
Docker File

BUILD



Docker Image

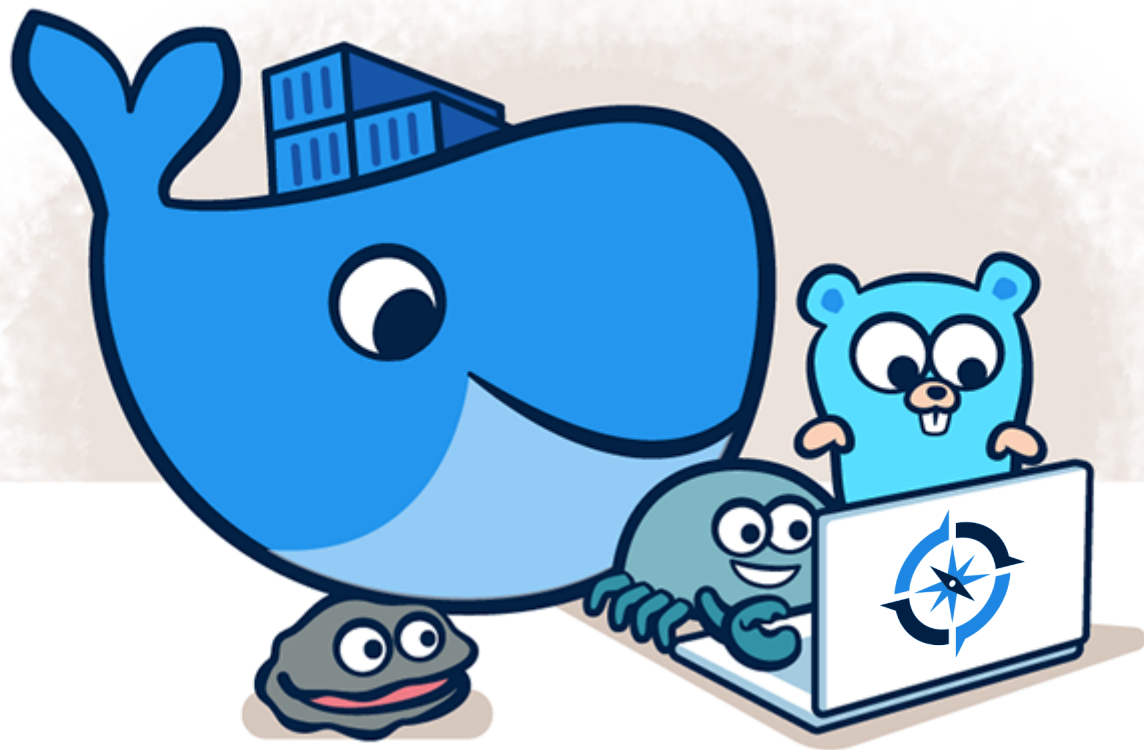
RUN



Docker Container



... Dockerre fel!



@fegy001



<https://github.com/fegy001>