Short Guide

Installing the CBGM Tool via Docker on Windows





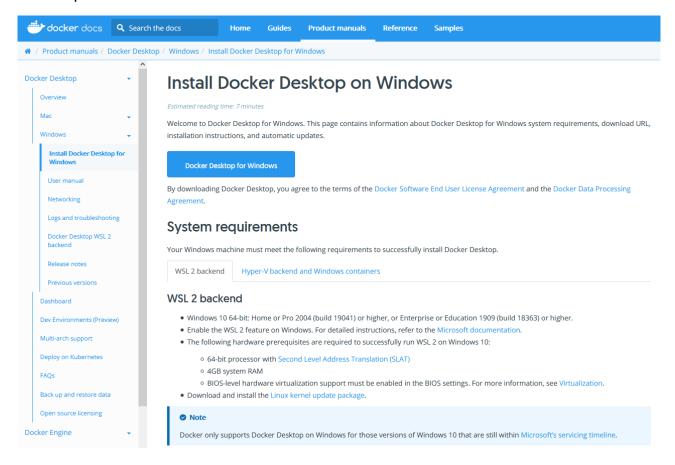
Requirements

- A CPU capable of virtualization (most modern CPUs can do that)
- Windows 10 Professional (Win 10 Home has no Hyper-V support)
- 2GB Disk space for Docker and approx. 600 MB disk space for CBGM
- Administrator Rights on your local machine (e.g. no Virtual Desktop)

Note: This guide was written on August, 4th 2021. Some links or tools be outdated in the future.

Step 1

Visit https://docs.docker.com/docker-for-windows/install/ and download Docker Desktop for Windows.



Step 2

Run "Docker Desktop Installer.exe" and follow the instructions. Reboot.

Step 3

If you encounter an error concerning Virtualization in your BIOS Settings, follow the instructions at:

https://docs.docker.com/docker-for-windows/troubleshoot/#virtualization

In most cases: Restart your machine, then while booting, push a specific key to enter your BIOS, then search for "Virtualization" and enable it. This can differ on various machines.



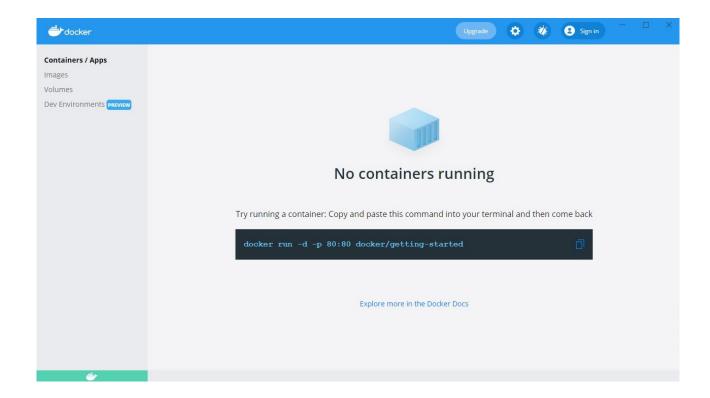
You may also encounter an error concerning WSL 2 (Windows-Subsystem Linux). If a "Microsoft .NET Framework" errormessage shows up, just click on continue.

Visit https://docs.microsoft.com/de-de/windows/wsl/install-win10 and follow the instructions. You are instructed to download "wsl_update_x64.msi" and execute it.



Step 4

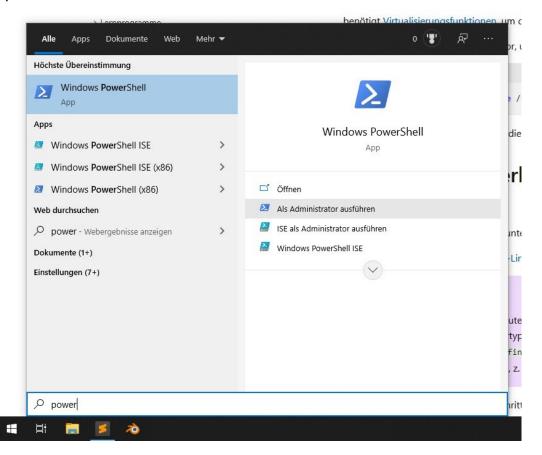
After rebooting, you should start Docker Desktop and see the following:



Visit https://hub.docker.com/r/scdh/intf-cbgm-app-server and copy the contents of the docker compose into a file anywhere in your file system and name the file "docker-compose.yml".

Step 5

Start "PowerShell" as Administrator (you can hit the Windows Key and start typing "power").



Step 6

Inside the PowerShell change to the folder where your "docker-compose.yml" file was saved. E.g.

cd C:/Users/My Name/Download/cbgm

then run

docker-compose up

Note: Docker Desktop must be running, while executing docker compose.

You should see the following:

```
X
  Administrator: Windows PowerShell
  Copyright (C) Microsoft Corporation. Alle Rechte vorbehalten.
 Lernen Sie das neue plattformübergreifende PowerShell kennen - https://aka.ms/pscore6
PS C:\Windows\system32> cd C:\Users\denni\Downloads\cbgm
PS C:\Users\denni\Downloads\cbgm> docker-compose up
Creating network "cbgm_default" with the default driver
Creating volume "cbgm_pgdata" with default driver
Pulling ntg-db-server (scdh/intf-cbgm-db-server:)...
latest: Pulling from scdh/intf-cbgm-db-server
33847f680f63: Pull complete
1b09e96014b3: Pull complete
eb49b6d9d1f3; Pull complete
 eb49b6d9d1f3: Pull complete
 4057ebf78d2d: Pull complete
 f92d870e2c4f: Extracting [==========>>
                                                                                                                                       ] 2.949MB/7.965MB
b03847575a18: Download complete
475945131fa9: Download complete
c042b5a6607d: Download complete
 4a537e703ceb: Downloading [==========>
                                                                                                                                         ] 29.61MB/73.42MB
 874b6aeeade6: Download complete
 0c96202322f6: Download complete
b28cdf9b73ec: Download complete
513e88402a04: Download complete
4a950ba5d9d0: Downloading [======>
                                                                                                                                         ] 5.716MB/39.96MB
3fd6697d8e4d: Download complete
```

Note: Depending on your connection, this may take a few minutes. After that, the Database must fill tables, so this could also take a few minutes.

Final Step

In the end you should see the following output. Visit http://localhost:5000/ in your browser to see the CBGM User Interface.

To shutdown the CBGM just press CTRL-C while inside your PowerShell.

```
Auswählen Administrator: Windows PowerShell
                                                                                                                                                         П
 ntg-db-server_1
                           pg_restore: creating ACL "ntg.TABLE export_notes"
                           pg_restore: creating ACL "ntg.TABLE import_cliques"
ntg-db-server 1
                           pg_restore: creating ACL "ntg.TABLE import_locstem"
pg_restore: creating ACL "ntg.TABLE import_locstem"
ntg-db-server_1
ntg-db-server_1
                           pg_restore: creating ACL "ntg.TABLE import_notes"
ntg-db-server_1
                           pg_restore: creating ACL "ntg.TABLE lac
ntg-db-server
                           pg_restore: creating ACL "ntg.TABLE ms_ranges_view"
ntg-db-server_1
                           pg_restore: creating ACL "ntg.TABLE nestle"
pg_restore: creating ACL "ntg.TABLE passages_view"
ntg-db-server_1
ntg-db-server_1
                           pg_restore: creating ACL "ntg.TABLE passages_view_lemma"
ntg-db-server_1
ntg-db-server 1
ntg-db-server_1
                           /usr/local/bin/docker-entrypoint.sh: running /docker-entrypoint-initdb.d/03-final.sql
ntg-db-server_1
                           ANALYZE
ntg-db-server_1
ntg-db-server_1
                           waiting for server to shut down...2021-08-04 06:53:14.844 UTC [48] LOG: received fast shutdown requ
ntg-db-server 1
est
                            .2021-08-04 06:53:14.849 UTC [48] LOG: aborting any active transactions
ntg-db-server_1
ntg-db-server_1
                           2021-08-04 06:53:14.851 UTC [48] LOG: background worker "logical replication launcher" (PID 55) exi
 ted with exit code 1
                                                   - Waiting for Postgres server to come up. Retrying (58) ...
                           2021-08-04 06:53:15.505 UTC [50] LOG: shutting down 2021-08-04 06:53:15.631 UTC [48] LOG: database system is shut down
ntg-db-server 1
ntg-db-server_1
ntg-db-server_1
                            done
                           server stopped
ntg-db-server_1
ntg-db-server_1
ntg-db-server_1
                           PostgreSQL init process complete; ready for start up.
ntg-db-server 1
ntg-db-server_1 | ntg-db-server_1 | 2021-08-04 06:53:15.663 UTC [1] LOG: starting PostgreSQL 12.7 (Debian 12.7-1.pgdg100+1) on x86_64-p c-linux-gnu, compiled by gcc (Debian 8.3.0-6) 8.3.0, 64-bit ntg-db-server_1 | 2021-08-04 06:53:15.663 UTC [1] LOG: listening on IPv4 address "0.0.0.0", port 5432 ntg-db-server_1 | 2021-08-04 06:53:15.663 UTC [1] LOG: listening on IPv6 address "::", port 5432 ntg-db-server_1 | 2021-08-04 06:53:15.670 UTC [1] LOG: listening on Unix socket "/var/run/postgresq1/.s.PGSQL.5432" ntg-db-server_1 | 2021-08-04 06:53:15.693 UTC [125] LOG: database system was shut down at 2021-08-04 06:53:15 UTC ntg-db-server_1 | 2021-08-04 06:53:15.701 UTC [1] LOG: database system is ready to accept connections
                                                   - Mounted Acts Phase 4 (Docker) at 0.0.0.0:5000/api/acts/ph4 from conf acts_ph4.con
                             64492 - INFO
                             64559 - INFO
                                                   - Mounted Mark Phase 3.5 (Docker) at 0.0.0.5000/api/mark/ph35 from conf mark_ph35
 conf
                             64574 - INFO
                                                   - Mounted Root at 0.0.0.0:5000/api from conf _global.conf
                             64575 - WARNING -
                                                      * Running on all addresses.
                               WARNING: This is a development server. Do not use it in a production deployment.
                                                  - * Running on http://172.18.0.3:5000/ (Press CTRL+C to quit)
- 172.18.0.1 - - [04/Aug/2021 06:53:34] "GET / HTTP/1.1" 200 -
                             64575 - INFO
                             83146 - INFO
                                                                           [04/Aug/2021 06:53:35] "GET /api/info.json HTTP/1.1" 200 -
                             83732 - INFO
                                                   - 172.18.0.1 - -
                                                  - 172.18.0.1 - - [04/Aug/2021 06:53:35] "GET /api/user.json HTTP/1.1" 200 - 172.18.0.1 - - [04/Aug/2021 06:53:35] "GET /api/messages.json HTTP/1.1" 200
                             83735 - INFO
                             83738 - INFO
                             83782 - INFO
                                                   - 172.18.0.1 - - [04/Aug/2021 06:53:35] "GET /webfonts/fa-solid-900.woff2 HTTP/1.1"
 200
```

For an introduction to the CBGM, see the Short Guides at: https://ntg.uni-muenster.de/

Troubleshooting

I cannot reach localhost:5000, there is no User Interface!

Please check your PowerShell Output. There may be an error message. Please look at the problems below. If you encounter a different error, we are happy to hear from you! We are trying to make CBGM Docker error-free, so please contact Mr. Volker Krüger (<u>vkrue 01@uni-muenster.de</u>)

The PowerShell says something like "Traceback" and the CBGM tool is not working.

The word "Traceback" indicates that the App Container crashed. In most cases this happens during the first start. In slow systems the database cannot be filled in time so that the App crashes. Just terminate the Docker processes by pressing CTRL-C twice and restart with

docker-compose up

We are currently fixing all issues regarding the Docker Environment of CBGM. If you encounter this error please send an email to Mr. Volker Krüger (vkrue 01@uni-muenster.de) with your machine specifications.