Standalone and multi-user installations

> Standalone installation
>
> Linux – Ubuntu 18.04.3 LTS
>
> 1. Open terminal and install Docker. Detailed instruction for Docker installation can be found at https://phoenixnap.com/kb/how-to-install-docker-on-ubuntu-18-04
>
> \>\>   sudo apt-get update
>
> \>\>   sudo apt-get install docker.io
>
> \>\>   sudo systemctl start docker
>
> \>\>   sudo systemctl enable docker
>
> 2. Get docker image with workHORSE application (this may take some time depending on your Internet connection):
>
> \>\>   sudo docker pull pband/workhorse-app
>
> 3. Create docker volume for storing synthetic population data:
>
> \>\>   sudo docker volume create workhorse-volume
>
> 4. Run docker image:
>
> \>\>   sudo docker run --mount source=workhorse-volume,target=/mnt/storage_slow/synthpop -p 8080:3838 -it pband/workhorse-app
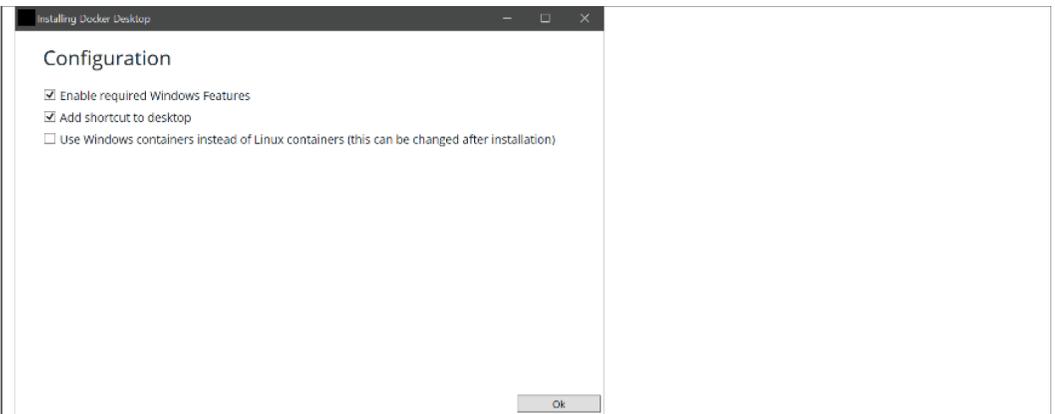>
> 5. Now you should be able to run the WorkHORSE app by opening web browser and open addres: **localhost:8080**
>
> Windows 10
>
> 6. Download Docker Desktop for Windows (https://www.docker.com/products/docker-desktop)
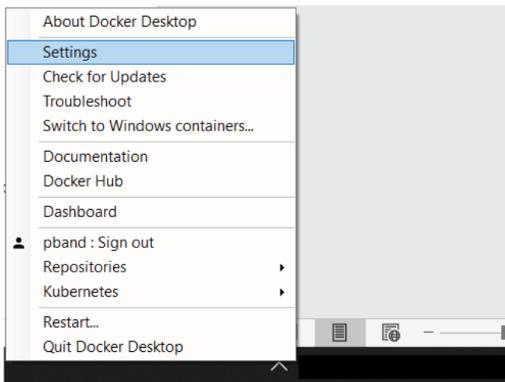>
> 7. Run Docker Desktop Installer
> **Do not** check the option "Use Windows containers instead of Linux…" (see picture below)
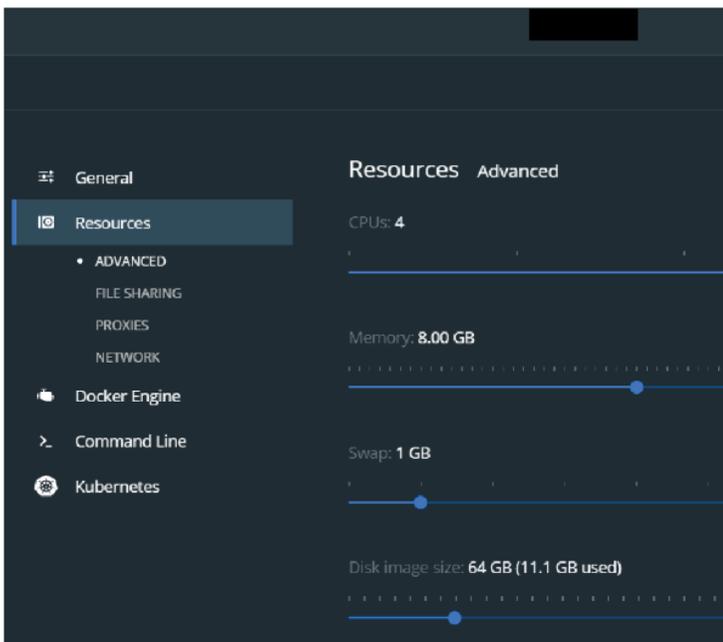
8. Restart Windows

9. Configure Docker:

Click Docker icon in the messaging area of Windows Desktop and go to "Settings"

In Resources->Advanced select at least 4 processor cores and at least 8GB of memory:

Then click "Apply & Restart"

10. Open windows terminal (i.e. Windows Powershell – press win key + R, then type **powershell**)

11. Run commands:

```
>>      docker pull pband/workhorse-app
>>      docker volume create workhorse-volume
>>      docker          run          --mount          source=workhorse-volume,target=/mnt/storage_slow/synthpop -p 8080:3838 -it  pband/workhorse-app
```

12. The window like below should appear. Allow docker to communicate via network interface

13. Now you should be able to run the WorkHORSE app by opening web browser and open addres: **localhost:8080**

Multi-user installation

1. Open terminal and install Docker (https://phoenixnap.com/kb/how-to-install-docker-on-ubuntu-18-04)

```
>>      sudo apt-get update
>>      sudo apt-get install docker.io
>>      sudo systemctl start docker
>>      sudo systemctl enable docker
```

2. Get docker image with workHORSE application (this may take some time depending of your Internet connection):

```
>> sudo docker pull pband/workhorse-app
```

3. Get docker image with shinyproxy

```
>> sudo docker pull pband/workhorse-shinyproxy
```

4. Create docker volume for storing synthetic population data:

```
>> sudo docker volume create workhorse-volume
```

5. Run command

```
>> sudo docker network create sp-example-net
```

6. Run shinyproxy image

```
>> sudo docker run -d -v /var/run/docker.sock:/var/run/docker.sock --net sp-example-net -p 8080:8080 pband/workhorse-shinyproxy
```

14. Now you should be able to run the WorkHORSE app by opening web browser and open address: **localhost:8080**