



# Instalação Docker

**Laboratório de Investigação**

Master in **Applied Informatics**

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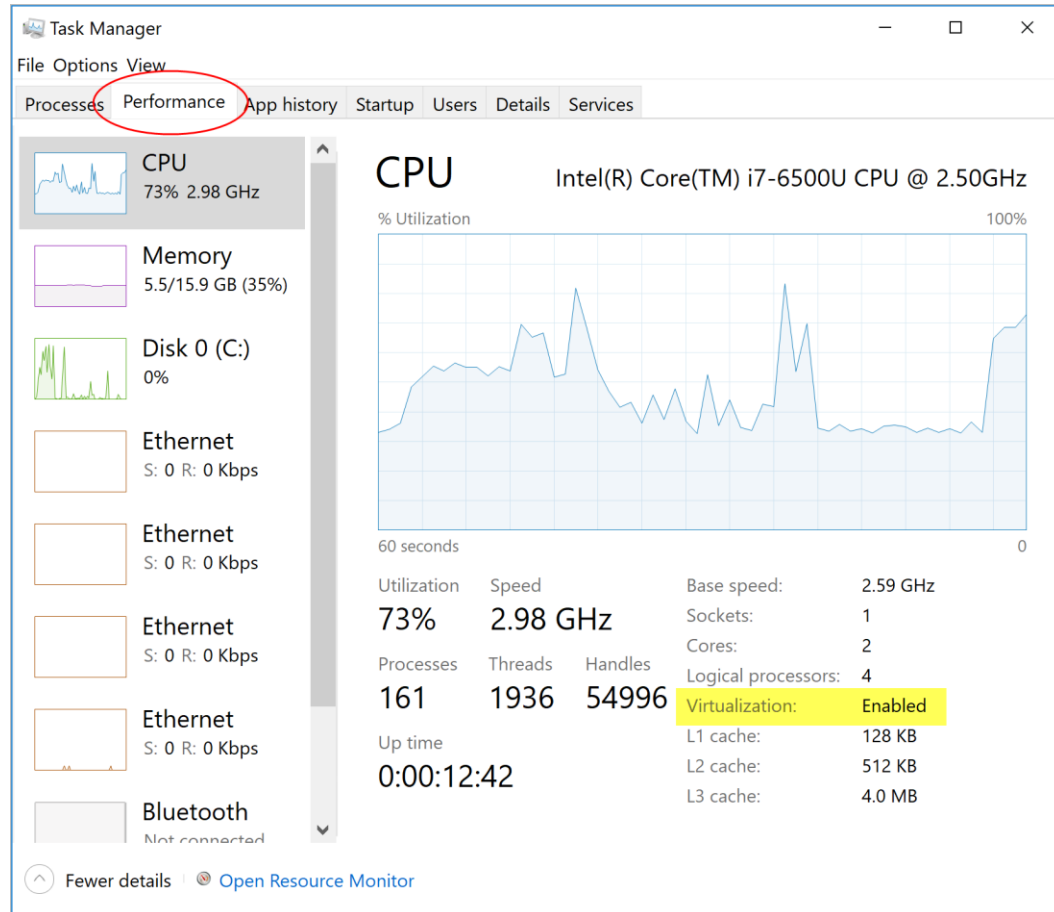
# Requisitos docker

- Hardware:
  - 64-bit processor with Second Level Address Translation (SLAT)
  - 4GB system RAM
  - Enable hardware virtualization in BIOS
- Podem instalar com wsl2 ou hyper-v
- WSL em windows 10 v2004:
  - Abrir powershell como administrador
  - `wsl --install`
  - Instala a última versão do wsl com ubuntu

# Requisitos docker

- To run Windows containers, you need Windows 10 or Windows 11 Professional or Enterprise edition
- Windows Home or Education editions only allow you to run Linux containers.
- If your administrator account is different to your user account, you must add the user to the docker-users group:
  - Run Computer Management as an administrator.
  - Navigate to Local Users and Groups > Groups > docker-users.
  - Right-click to add the user to the group.
  - Sign out and sign back in for the changes to take effect.

# Requisitos docker

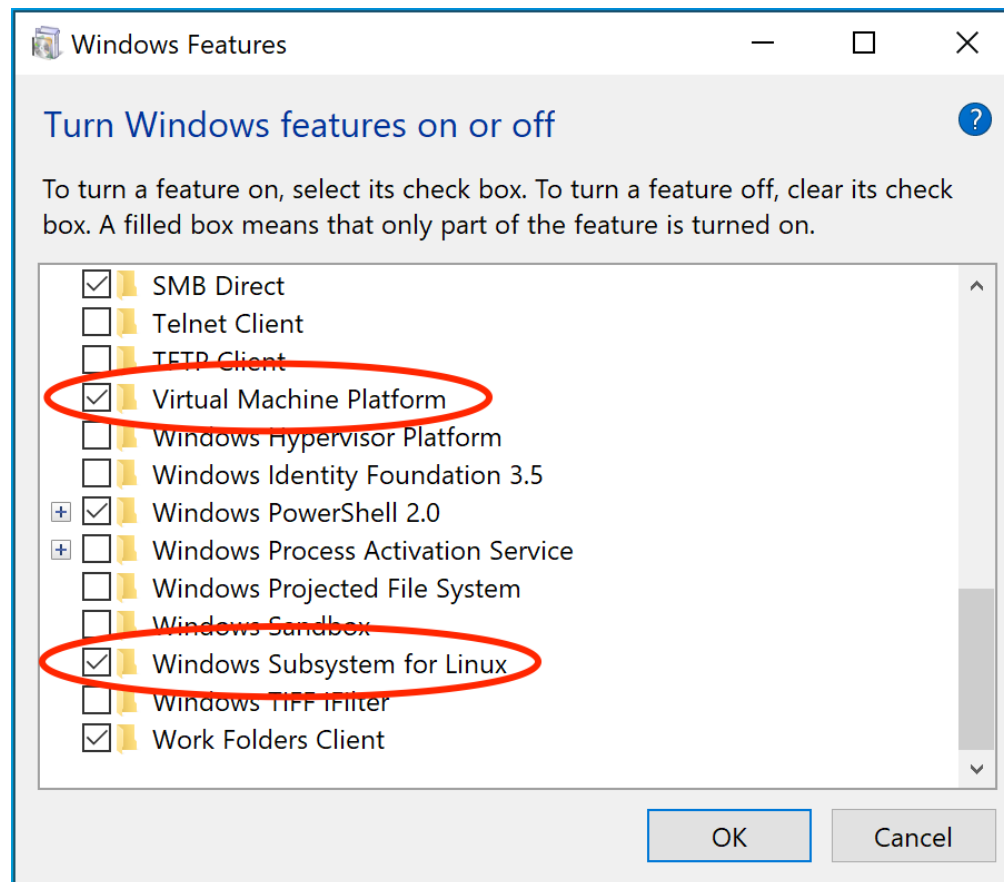


# Requisitos docker

- WSL em versões windows 10 anteriores v2004:
  - Ativar recursos WSL: Ir a "Configurações" do Windows, "Aplicativos" > "Programas e recursos" > "Programas e recursos opcionais" > "Adicionar um recurso". Procure por "Windows Subsystem para Linux" e ativar
  - Reiniciar o computador.
  - Abrir o Microsoft Store: Procure por sua distribuição Linux preferida (Ubuntu, Debian, Kali Linux, etc.) e instalar.

# Requisitos docker

- WSL em versões windows 10 anteriores v2004:

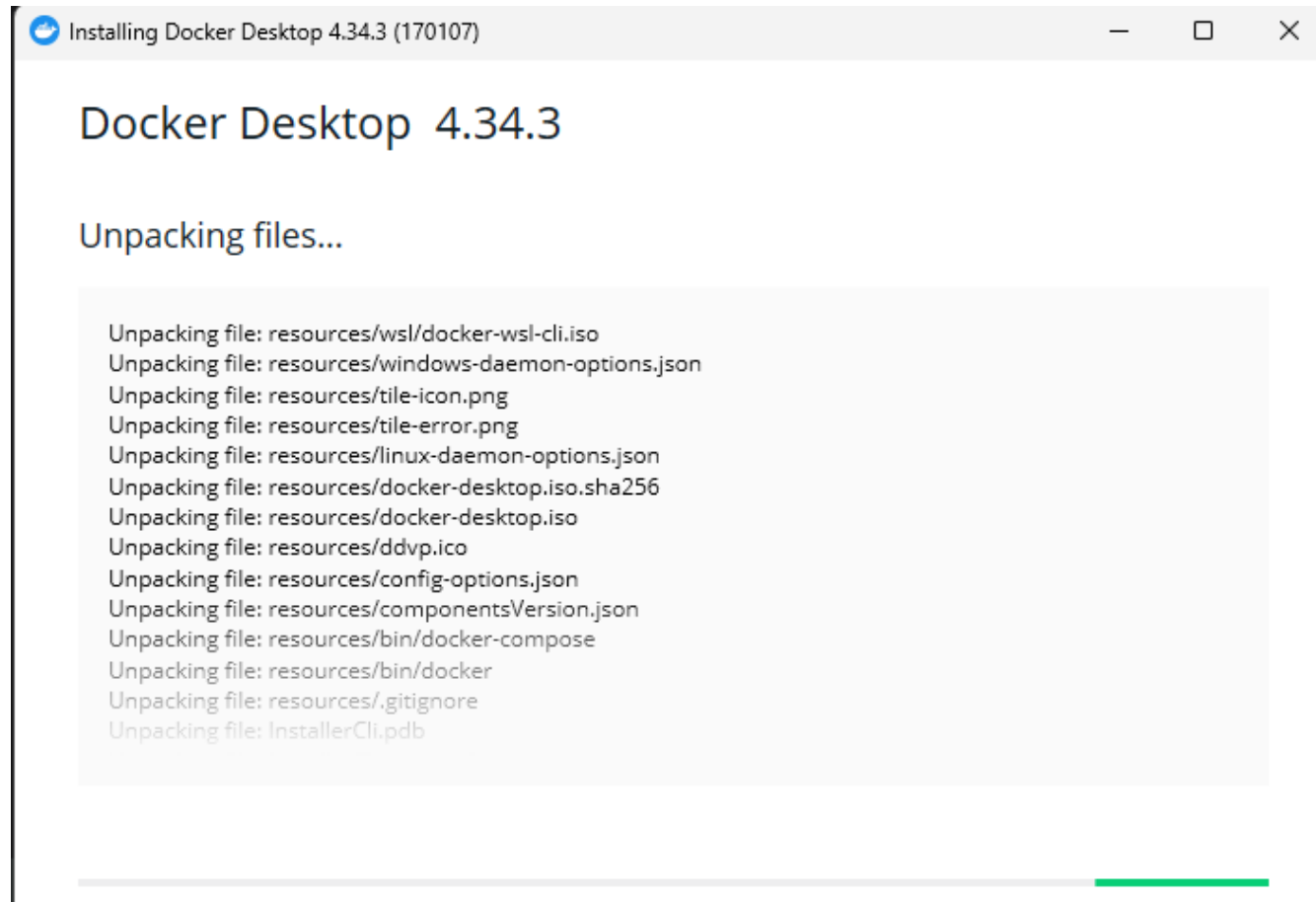


# Download

- <https://www.docker.com/products/docker-desktop/>
- Descarregar versão Windows
- Recomendado virtualização com wsl2 (alternativa hyper-v)

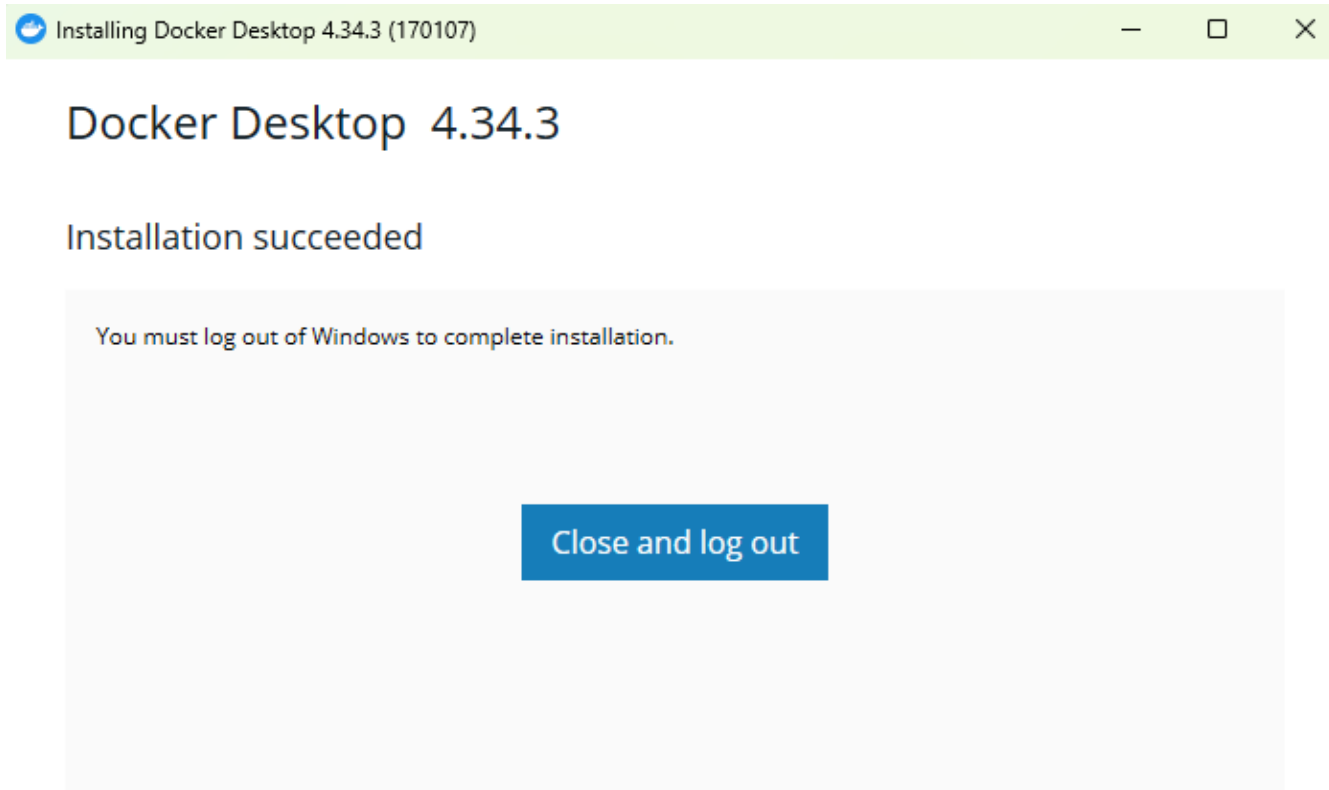


# Instalação local (c/wsl 2)

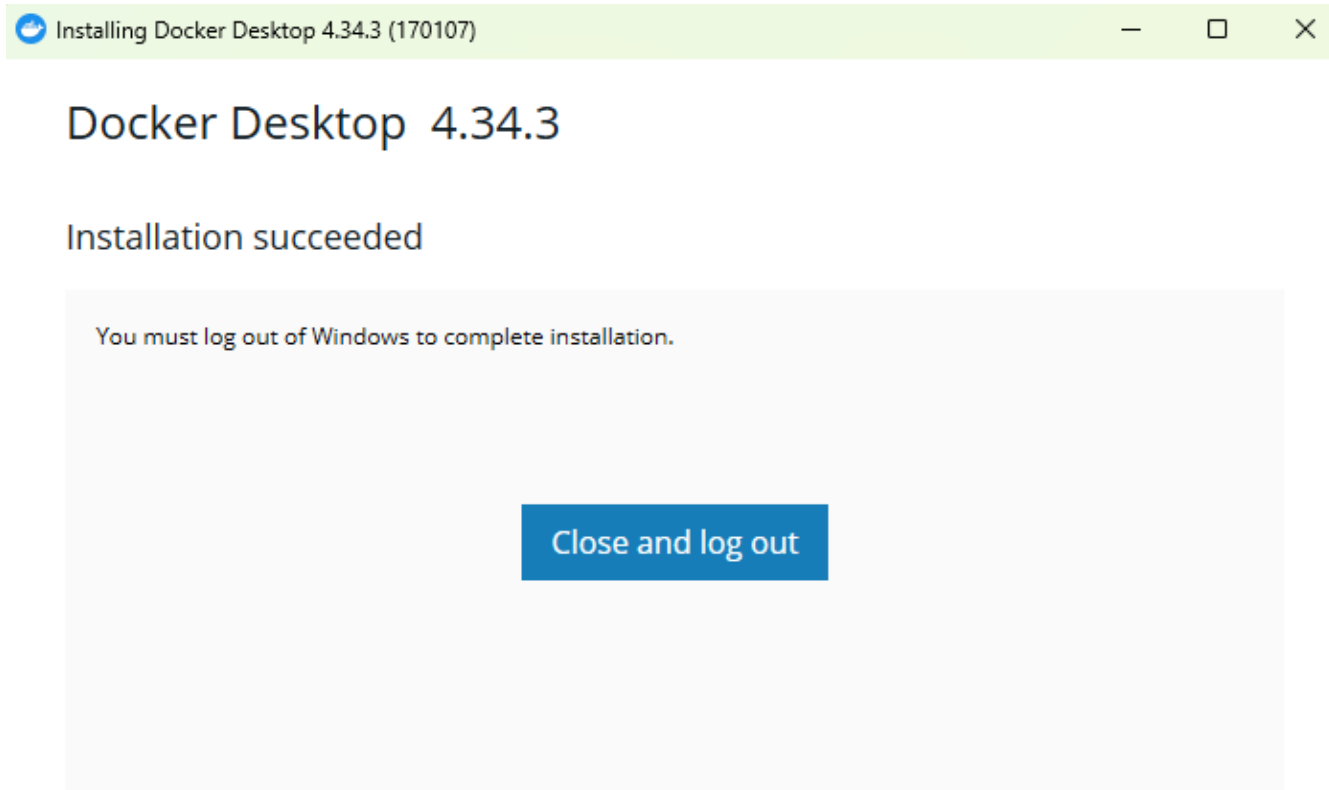




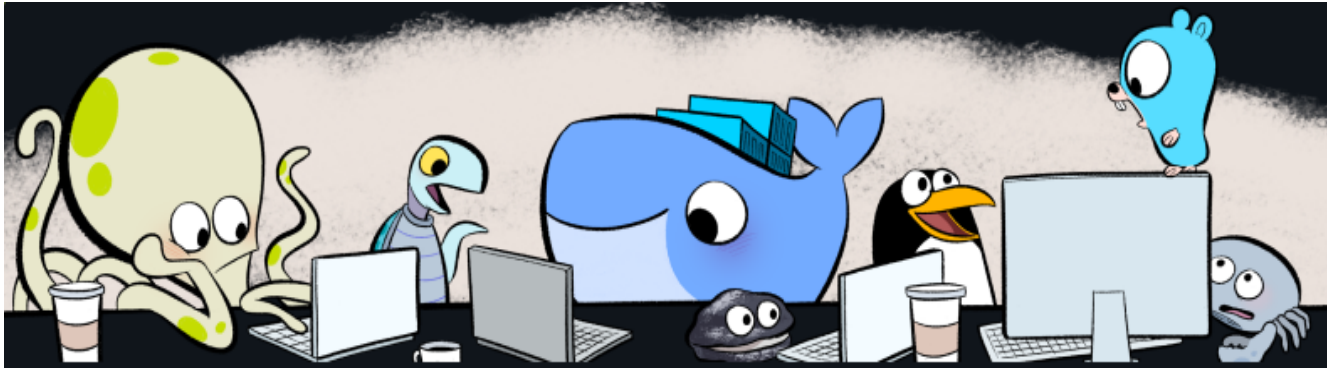
# Instalação local (c/wsl 2)



# Instalação local (c/wsl 2)




# Instalação local (c/wsl 2)



**Docker Subscription Service Agreement**

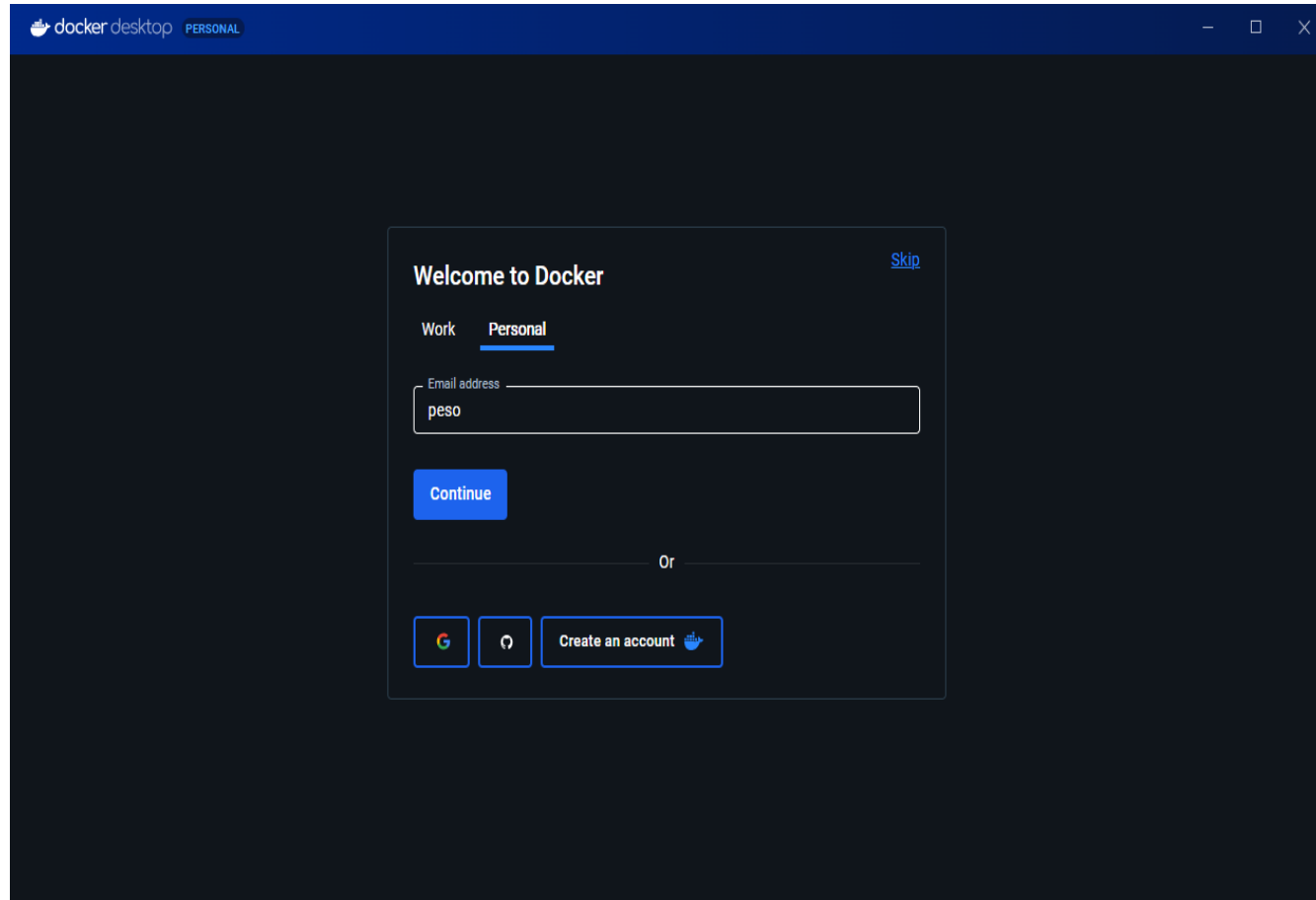
By selecting **accept**, you agree to the [Subscription Service Agreement](#), the [Docker Data Processing Agreement](#), and the [Data Privacy Policy](#).

Commercial use of Docker Desktop at a company of more than 250 employees OR more than \$10 million in annual revenue requires a paid subscription (Pro, Team, or Business). [See subscription details](#)

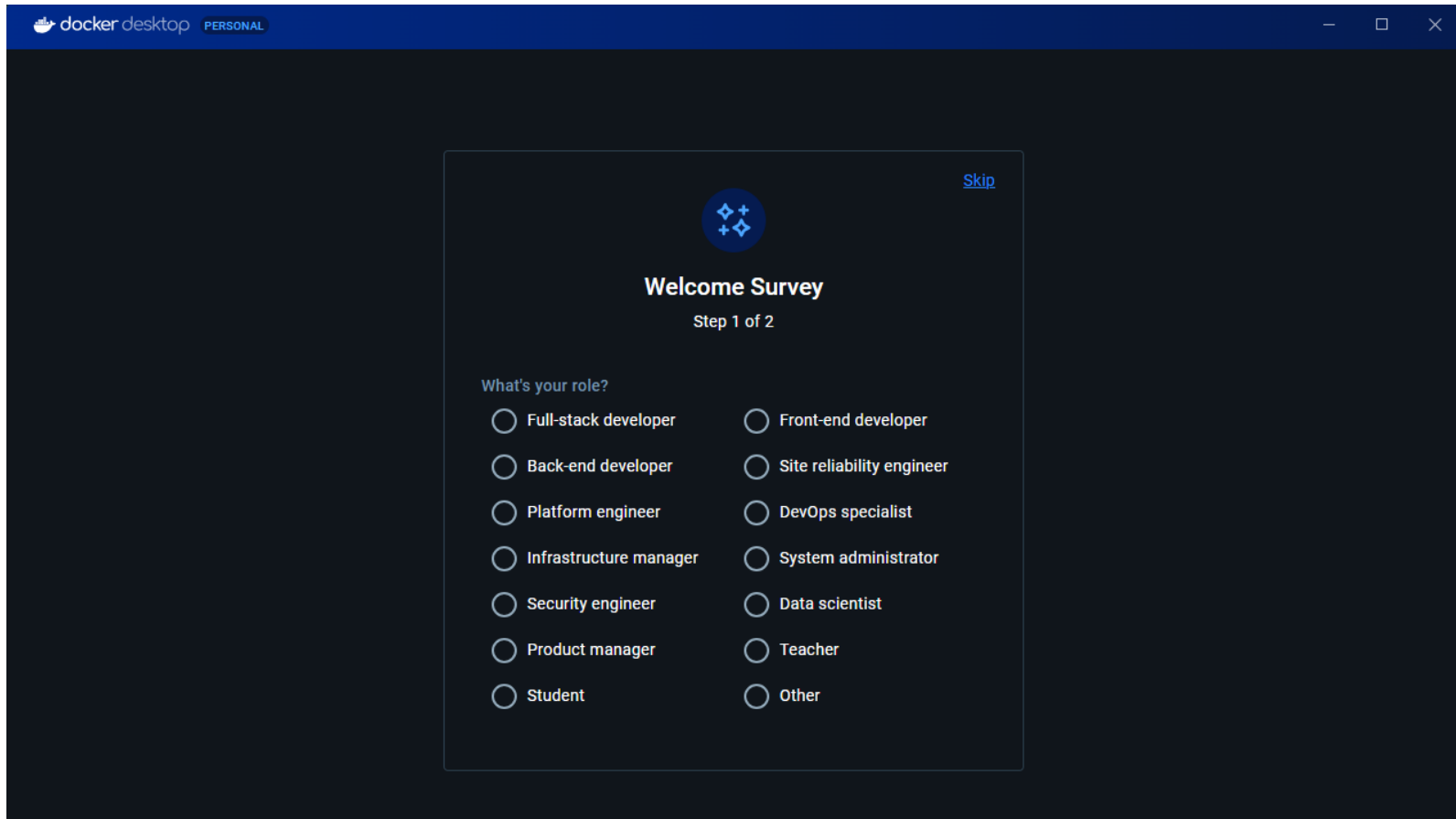
[View Full Terms](#) 

**Accept** **Close**

# Instalação local (c/wsl 2)



# Instalação local (c/wsl 2)



The screenshot shows the Docker Desktop application window. The title bar at the top is dark blue and contains the Docker logo, the text "docker desktop", and a "PERSONAL" label. On the right side of the title bar are standard window control buttons (minimize, maximize, close). The main content area is dark blue and features a "Welcome Survey" dialog box. The dialog box has a blue header with a circular icon containing four white plus signs. Below the icon, the text "Welcome Survey" is displayed in white, followed by "Step 1 of 2". The survey question "What's your role?" is followed by a list of ten roles, each with a radio button. The roles are arranged in two columns. A "Skip" link is located in the top right corner of the dialog box.

docker desktop PERSONAL

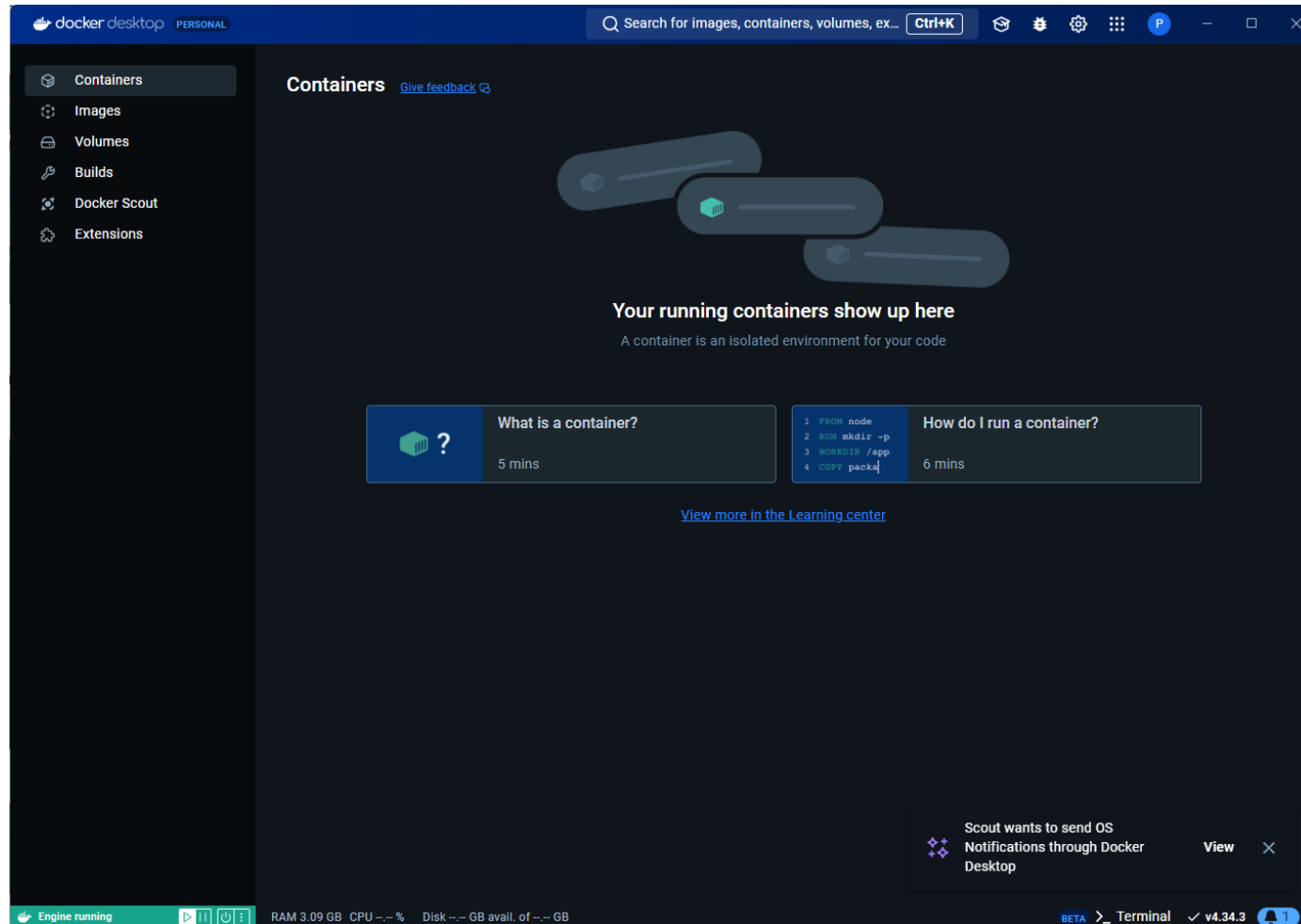
Skip

**Welcome Survey**  
Step 1 of 2

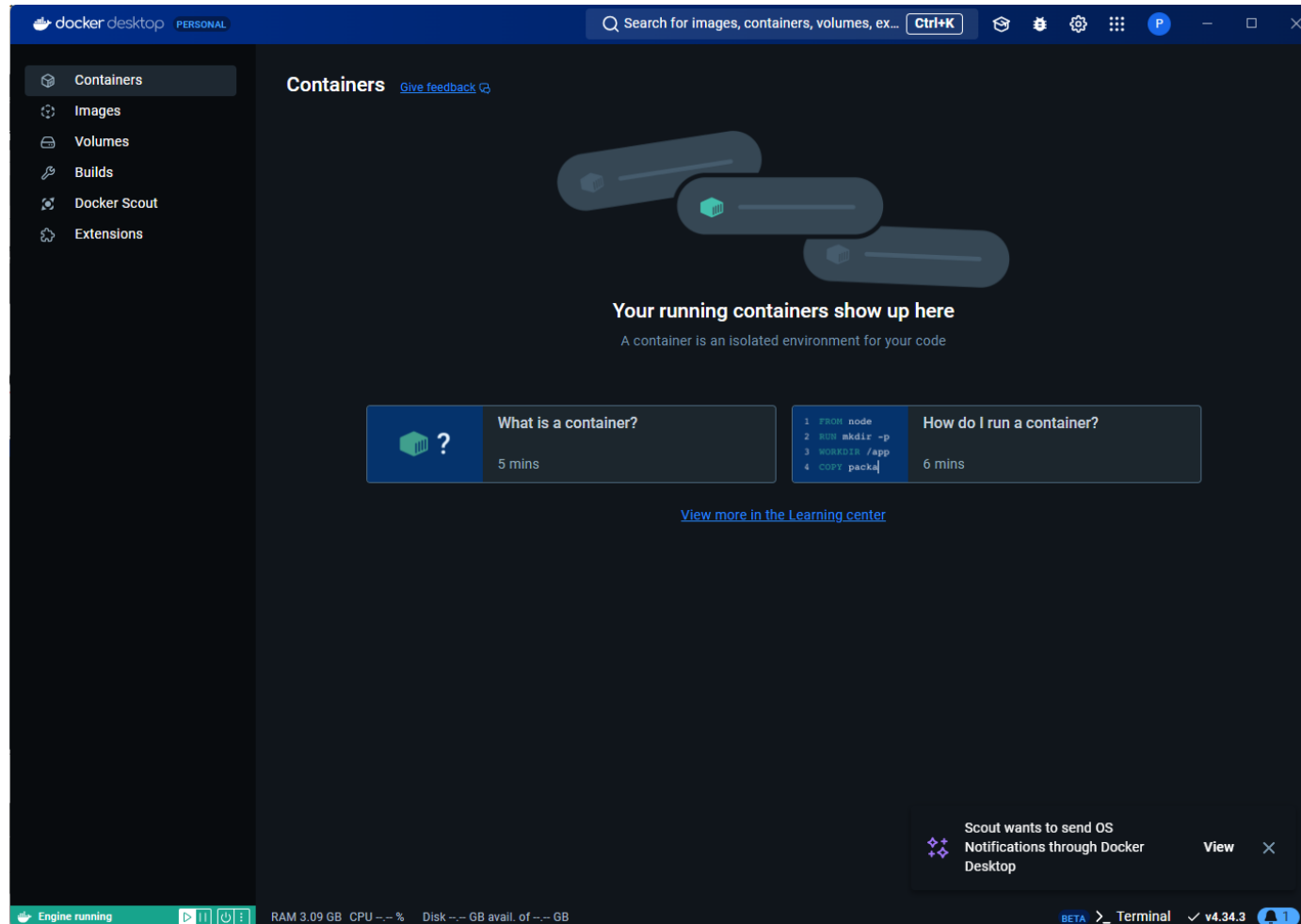
What's your role?

<input type="radio"/> Full-stack developer	<input type="radio"/> Front-end developer
<input type="radio"/> Back-end developer	<input type="radio"/> Site reliability engineer
<input type="radio"/> Platform engineer	<input type="radio"/> DevOps specialist
<input type="radio"/> Infrastructure manager	<input type="radio"/> System administrator
<input type="radio"/> Security engineer	<input type="radio"/> Data scientist
<input type="radio"/> Product manager	<input type="radio"/> Teacher
<input type="radio"/> Student	<input type="radio"/> Other

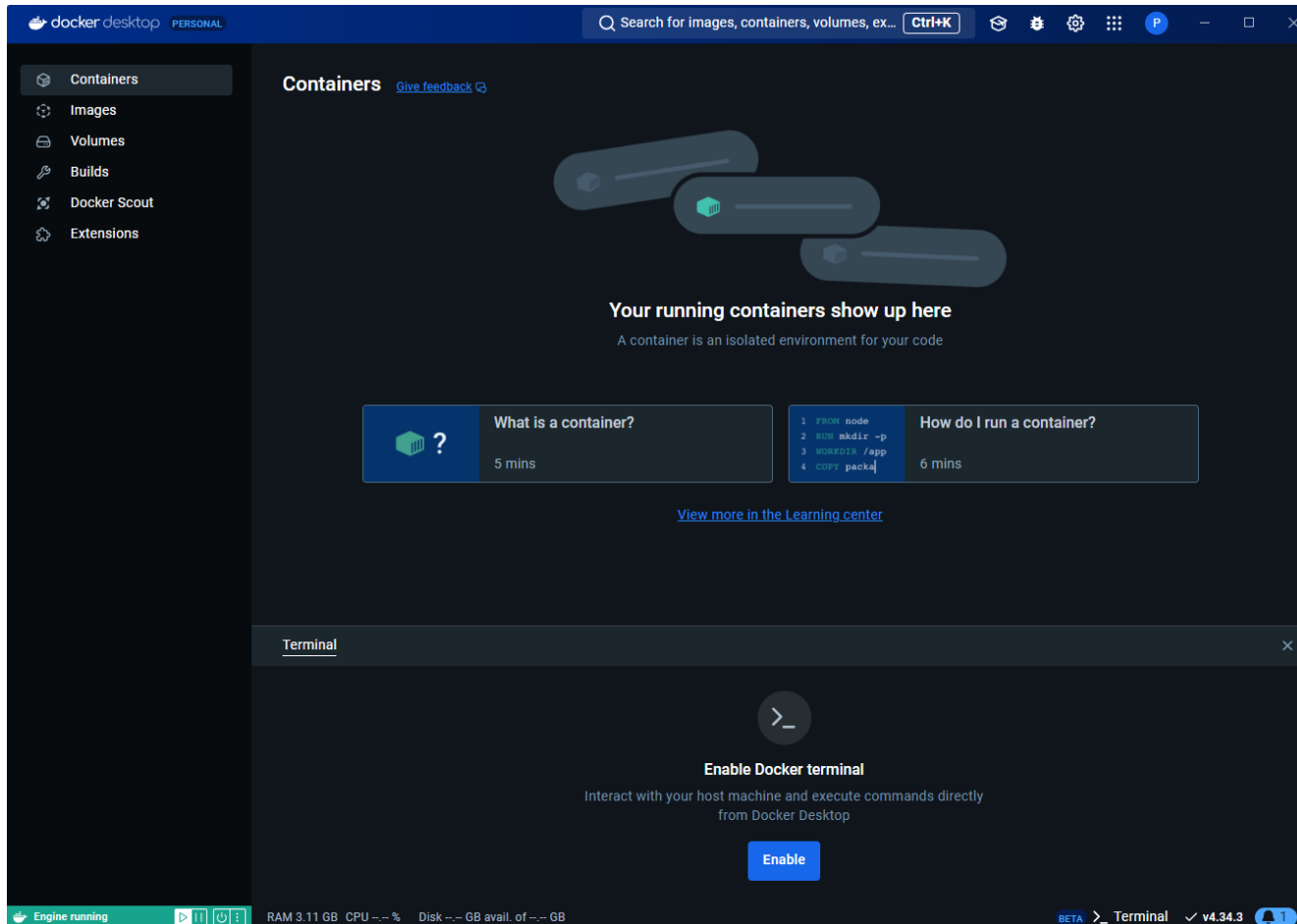
# Instalação local (c/wsl 2)



# Instalação local (c/wsl 2)

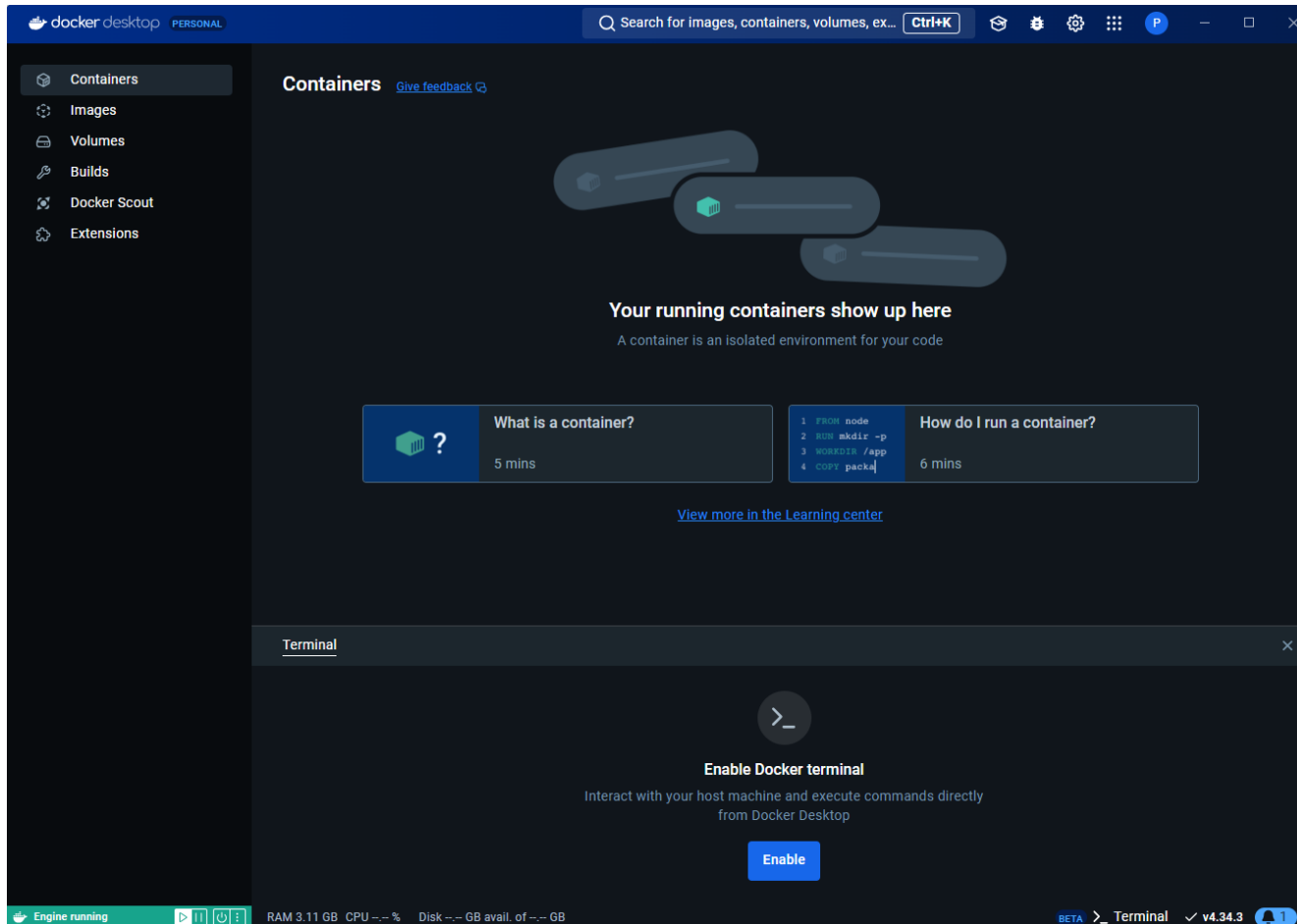


# Instalação local (c/wsl 2)





# Instalação local (c/wsl 2)



# Instalação ASReview

- `docker run -it asreview/asreview:latest`
- `` docker run `` : Tells Docker to run a container
- `` -it `` : This allocates a pseudo-TTY connected to the container's stdin, keeping it open interactively
- `` asreview/asreview:latest `` : Specifies the Docker image to use. This pulls the latest version of the ASReview image from Docker Hub.

# Instalação ASReview










```
(base) PS C:\Users\sobre\git> mkdir asreview

Directory: C:\Users\sobre\git

Mode                LastWriteTime         Length Name
----                -
d-----          22/10/2024   21:24             asreview

(base) PS C:\Users\sobre\git> cd .\asreview\
(base) PS C:\Users\sobre\git\asreview>
```

```
(base) PS C:\Users\sobre\git\asreview> docker run -it asreview/asreview:latest
Unable to find image 'asreview/asreview:latest' locally
latest: Pulling from asreview/asreview
66eadbf427bb: Download complete
cc9731f4e3bc: Download complete
615a38af2894: Download complete
d337cb12fd7c: Downloading [=====] 47.19MB/54.68MB
8e1d92e7d04d: Downloading [=====] 44.04MB/53.7MB
89d2b79a9306: Downloading [=====] 39.85MB/216.6MB
afe46a36bb25: Download complete
4448ff4b45ad: Download complete
e2946cfec3df: Download complete
a719597fe1ca: Downloading [=====] 44.04MB/189.8MB
```

	Name	Image	Status	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	 affectionate_franklin 9c6e589859b6 	asreview/asreview:latest	Running		0%	33 seconds ago	  
<input checked="" type="checkbox"/>	 penpot		Exited		0%	3 days ago	  

# Instalação ASReview

```
a719597fe1ca: Download complete
Digest: sha256:85b2fe3ab3f121670d61bf8b6f977c912d4f8c45c975788ef021a5799426d806
Status: Downloaded newer image for asreview/asreview:latest
WARNING: The requested image's platform (linux/arm64/v8) does not match the detected host platform (linux/amd64/v3) and no specific platform was requested
Start browser at http://0.0.0.0:5000/

If your browser doesn't open. Please navigate to 'http://0.0.0.0:5000/'
```

- <http://localhost:5000/>

# References

- Docker. (2022). Docker: Accelerated Container Application Development [Software].  
<https://www.docker.com/>
- Kane, S. P., & Matthias, K. (2023). Docker: Up & Running: Shipping Reliable Containers in Production (3rd edition) O'Reilly Media.
- Miell, I., & Sayers, A. (2019). Docker in Practice, Second Edition. Simon and Schuster.