**Cuprins**

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# Bogdan Stashchuk „The Complete Practical Docker Guide” [Packt] (2021)

## Instalare:

- afișare listă distribuții disponibile:

C:\Windows\system32>wsl --list –online

=> The following is a list of valid distributions that can be installed.

The default distribution is denoted by '\*'.

Install using 'wsl --install -d <Distro>'.

NAME FRIENDLY NAME

\* Ubuntu Ubuntu

Debian Debian GNU/Linux

kali-linux Kali Linux Rolling

Ubuntu-18.04 Ubuntu 18.04 LTS

Ubuntu-20.04 Ubuntu 20.04 LTS

Ubuntu-22.04 Ubuntu 22.04 LTS

OracleLinux\_8\_5 Oracle Linux 8.5

OracleLinux\_7\_9 Oracle Linux 7.9

SUSE-Linux-Enterprise-Server-15-SP4 SUSE Linux Enterprise Server 15 SP4

openSUSE-Leap-15.4 openSUSE Leap 15.4

openSUSE-Tumbleweed openSUSE Tumbleweed

- descărcare WSL:

https://learn.microsoft.com/en-us/windows/wsl/install-manual#step-4---download-the-linux-kernel-update-package

- instalare WSL (Windows Subsystem for Linux) - rulare cmd ca Administrator:

C:\Windows\system32>wsl –install (implicit pentru Ubuntu)

=> Installing: Virtual Machine Platform

Virtual Machine Platform has been installed.

Installing: Windows Subsystem for Linux

Windows Subsystem for Linux has been installed.

Installing: Windows Subsystem for Linux

Windows Subsystem for Linux has been installed.

Installing: Ubuntu

Ubuntu has been installed.

The requested operation is successful. Changes will not be effective until the system is rebooted.

- dezinstalare și eliminre WSL: meniul Start > Settings > Apps:

- Apps $ features: dezinstalare Ubuntu și Windows Subsystem for Linux

- Apps $ features > Optional features > More Windows features:

=> Turn Windows festures on or off: deselectare Virtual Machine Platform și Windows Subsystem for Linux

- pornirea lui Windows Subsystem for Linux prin meniul Start > Windows Subsystem for Linux va crea un cont nou Ubuntu::

=> This application requires the Windows Subsystem for Linux Optional Component.

The system may need to be restarted so the changes can take effect.

Press any key to continue...

- restartare:

=> Installing, this may take a few minutes...

Please create a default UNIX user account. The username does not need to match your Windows username.

For more information visit: https://aka.ms/wslusers

Enter new UNIX username: marius

New password: 674814

Retype new password:

passwd: password updated successfully

Installation successful!

To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo\_root" for details.

Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.79.1-microsoft-standard-WSL2 x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

This message is shown once a day. To disable it please create the

/home/marius/.hushlogin file.

marius@home-edition:~$

- descărcare și instalare:

<https://docs.docker.com/get-docker/>

<https://docs.docker.com/desktop/install/windows-install/>

=> Docker Desktop Installer.exe

Size: 594 MB (623.223.120 bytes)

=> Docker Desktop 4.16.3

Use WSL2 instead of Hyper-V (recommended)

Add shortcut to desktop

- după Restart:

Docker Subscription Service Agreement

=> Accept

- verificare:

C:\Users\me> docker --help

=> Usage: docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Options:

--config string Location of client config files (default

"C:\\Users\\me\\.docker")

-c, --context string Name of the context to use to connect to the

daemon (overrides DOCKER\_HOST env var and

default context set with "docker context use")

-D, --debug Enable debug mode

-H, --host list Daemon socket(s) to connect to

-l, --log-level string Set the logging level

("debug"|"info"|"warn"|"error"|"fatal")

(default "info")

--tls Use TLS; implied by --tlsverify

--tlscacert string Trust certs signed only by this CA (default

"C:\\Users\\me\\.docker\\ca.pem")

--tlscert string Path to TLS certificate file (default

"C:\\Users\\me\\.docker\\cert.pem")

--tlskey string Path to TLS key file (default

"C:\\Users\\me\\.docker\\key.pem")

--tlsverify Use TLS and verify the remote

-v, --version Print version information and quit

Management Commands:

builder Manage builds

buildx\* Docker Buildx (Docker Inc., v0.10.0)

compose\* Docker Compose (Docker Inc., v2.15.1)

config Manage Docker configs

container Manage containers

context Manage contexts

dev\* Docker Dev Environments (Docker Inc., v0.0.5)

extension\* Manages Docker extensions (Docker Inc., v0.2.17)

image Manage images

manifest Manage Docker image manifests and manifest lists

network Manage networks

node Manage Swarm nodes

plugin Manage plugins

sbom\* View the packaged-based Software Bill Of Materials (SBOM) for an image (Anchore Inc., 0.6.0)

scan\* Docker Scan (Docker Inc., v0.23.0)

secret Manage Docker secrets

service Manage services

stack Manage Docker stacks

swarm Manage Swarm

system Manage Docker

trust Manage trust on Docker images

volume Manage volumes

Commands:

attach Attach local standard input, output, and error streams to a running container

build Build an image from a Dockerfile

commit Create a new image from a container's changes

cp Copy files/folders between a container and the local filesystem

create Create a new container

diff Inspect changes to files or directories on a container's filesystem

events Get real time events from the server

exec Run a command in a running container

export Export a container's filesystem as a tar archive

history Show the history of an image

images List images

import Import the contents from a tarball to create a filesystem image

info Display system-wide information

inspect Return low-level information on Docker objects

kill Kill one or more running containers

load Load an image from a tar archive or STDIN

login Log in to a Docker registry

logout Log out from a Docker registry

logs Fetch the logs of a container

pause Pause all processes within one or more containers

port List port mappings or a specific mapping for the container

ps List containers

pull Pull an image or a repository from a registry

push Push an image or a repository to a registry

rename Rename a container

restart Restart one or more containers

rm Remove one or more containers

rmi Remove one or more images

run Run a command in a new container

save Save one or more images to a tar archive (streamed to STDOUT by default)

search Search the Docker Hub for images

start Start one or more stopped containers

stats Display a live stream of container(s) resource usage statistics

stop Stop one or more running containers

tag Create a tag TARGET\_IMAGE that refers to SOURCE\_IMAGE

top Display the running processes of a container

unpause Unpause all processes within one or more containers

update Update configuration of one or more containers

version Show the Docker version information

wait Block until one or more containers stop, then print their exit codes

Run 'docker COMMAND --help' for more information on a command.

- pornire Docker: resetarea calculatorului şi acceptarea „Docker Subscription Service Agreement“ determină pornirea aplicaţiei Docker Desktop, deoarece se află în Startup;

- verificarea existenţei rulării de containere: