Experiment no.5

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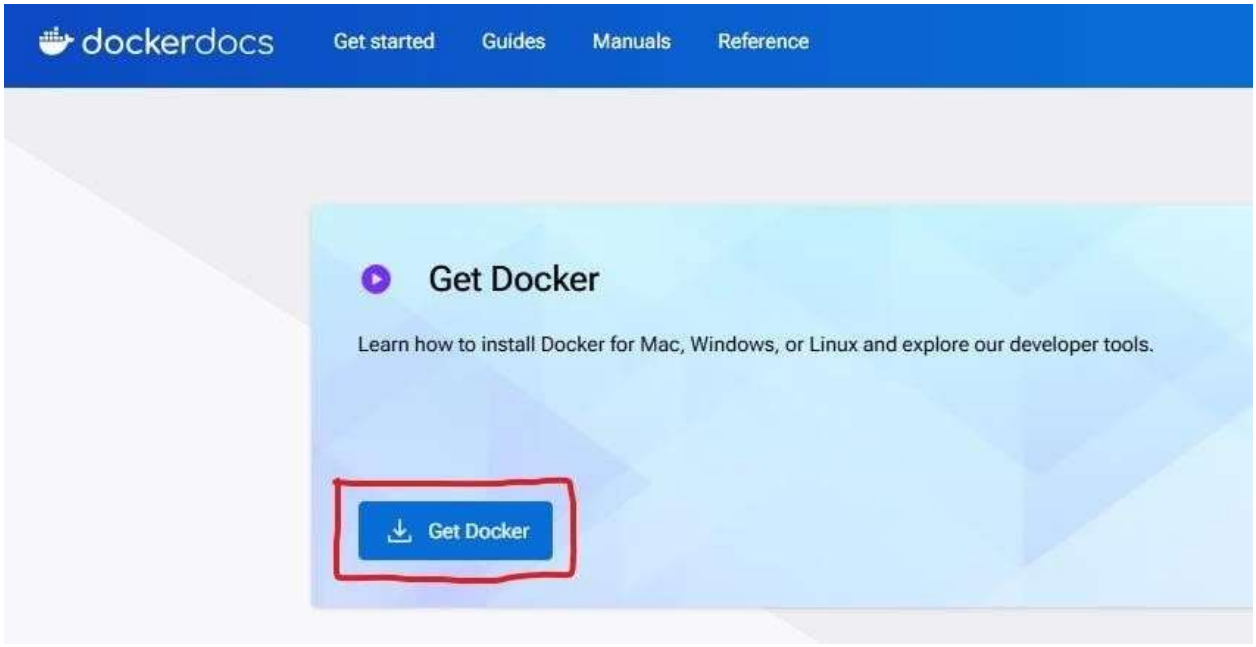
Roll No.: - 221

Class: -BTECH CSE III

Installation of Docker: -



more than $10 million USD in annual revenue) requires a paid subscription.

Docker Desktop for Mac

A native application using the macOS sandbox security model that delivers all Docker tools to your Mac.

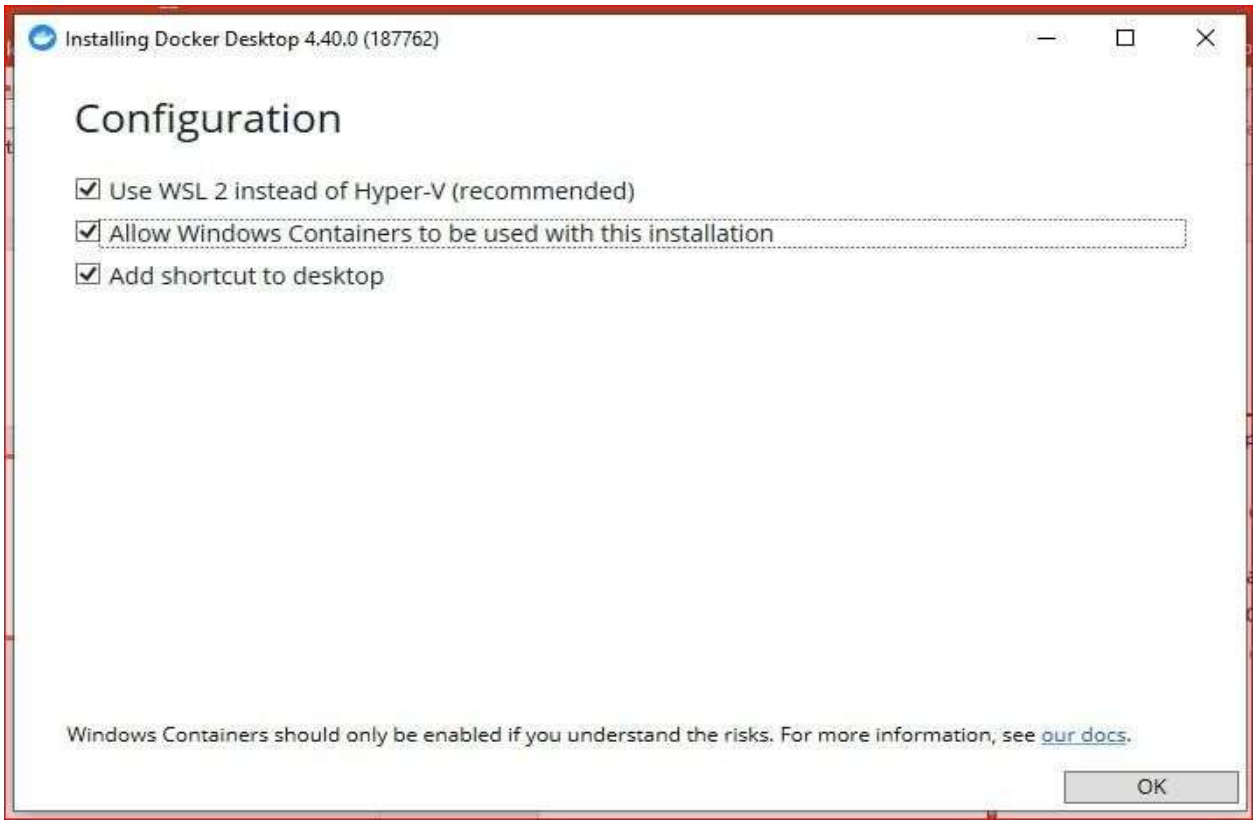
Docker Desktop for Windows

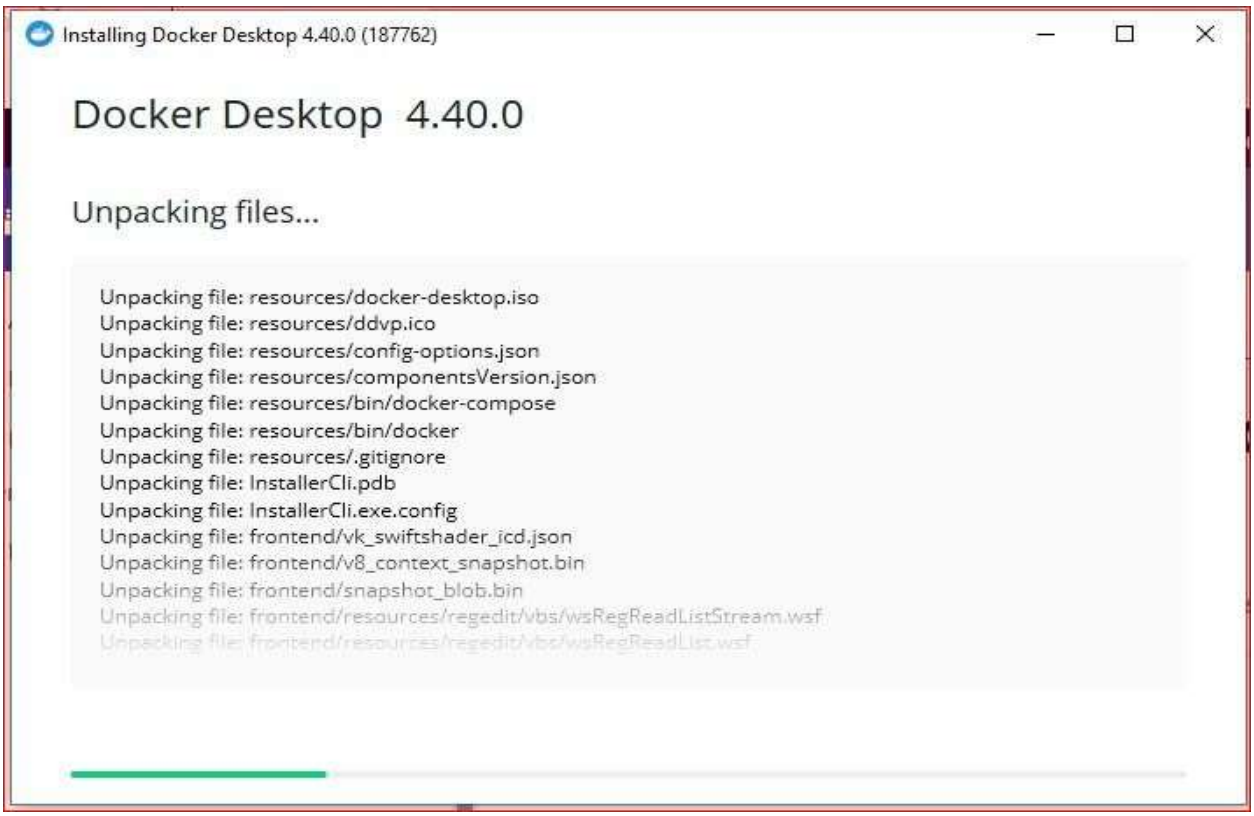
A native Windows application that delivers all Docker tools to your Windows computer.

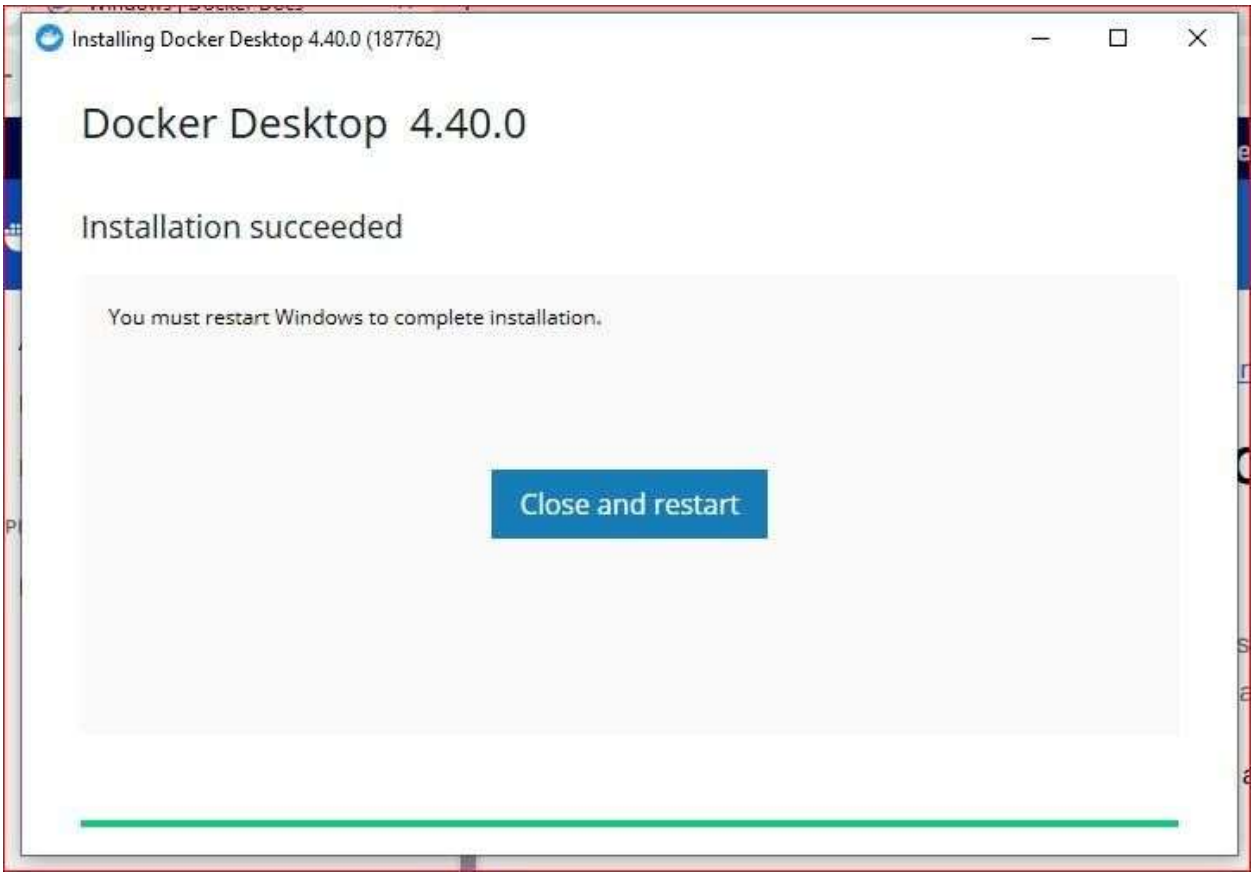
Docker Desktop for Linux

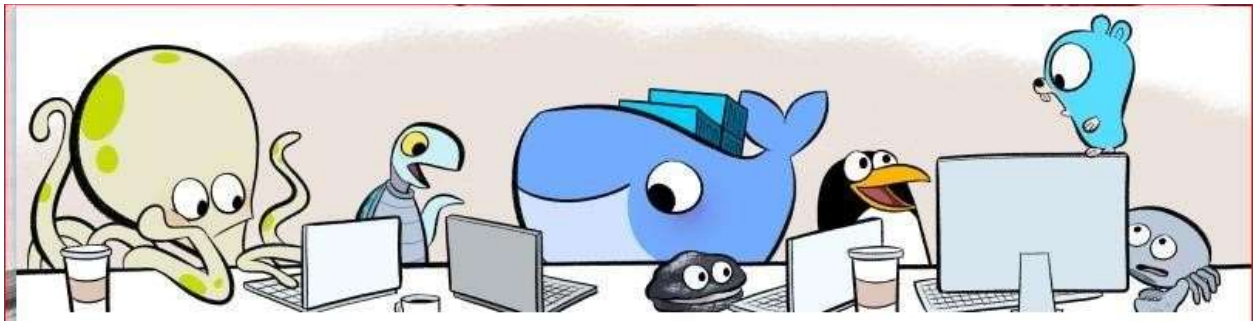
A native Linux application that delivers all Docker tools to your Linux computer.

Note




Installing Docker Desktop 4.40.0 (187762)
Docker Desktop 4.40.0
Unpacking files...
Unpacking file: resources/docker-desktop.iso
Unpacking file: resources/ddvp.ico
Unpacking file: resources/config-options.json
Unpacking file: resources/componentsVersion.json
Unpacking file: resources/bin/docker-compose
Unpacking file: resources/bin/docker
Unpacking file: resources/.gitignore
Unpacking file: InstallerCli.pdb
Unpacking file: InstallerCli.exe.config
Unpacking file: frontend/vk_swiftshader_icd.json
Unpacking file: frontend/v8_context_snapshot.bin
Unpacking file: frontend/snapshot_blob.bin
Unpacking file: frontend/resources/regedit/vbs/wsRegReadListStream.wsf


Installing Docker Desktop 4.40.0 (187762)
Docker Desktop 4.40.0
Installation succeeded
You must restart Windows to complete installation.
Close and restart



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

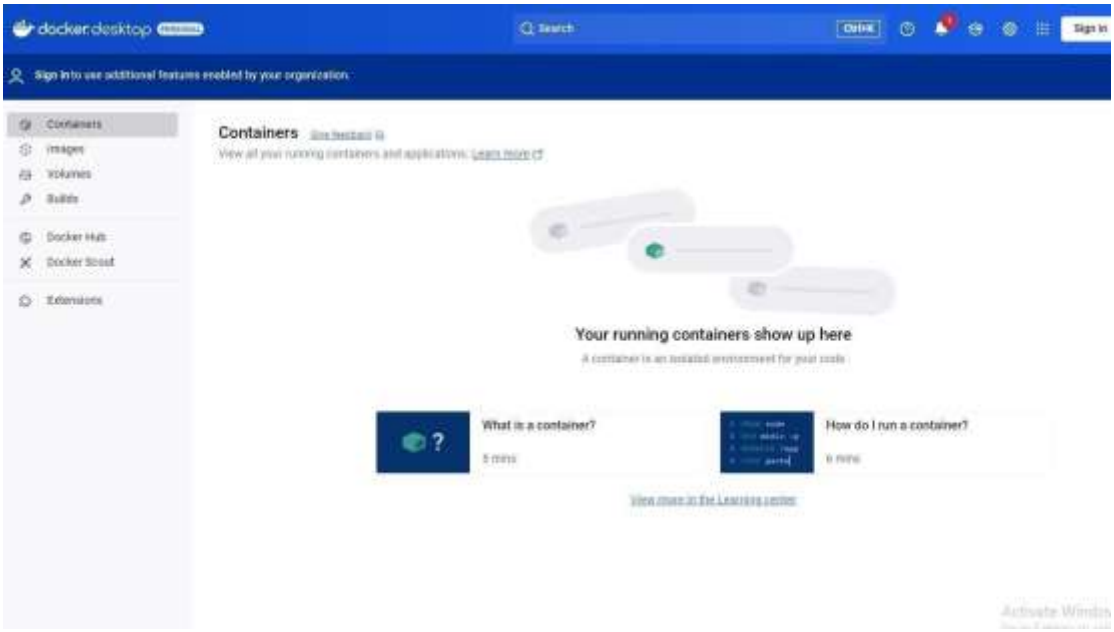
Finish setting up Docker Desktop

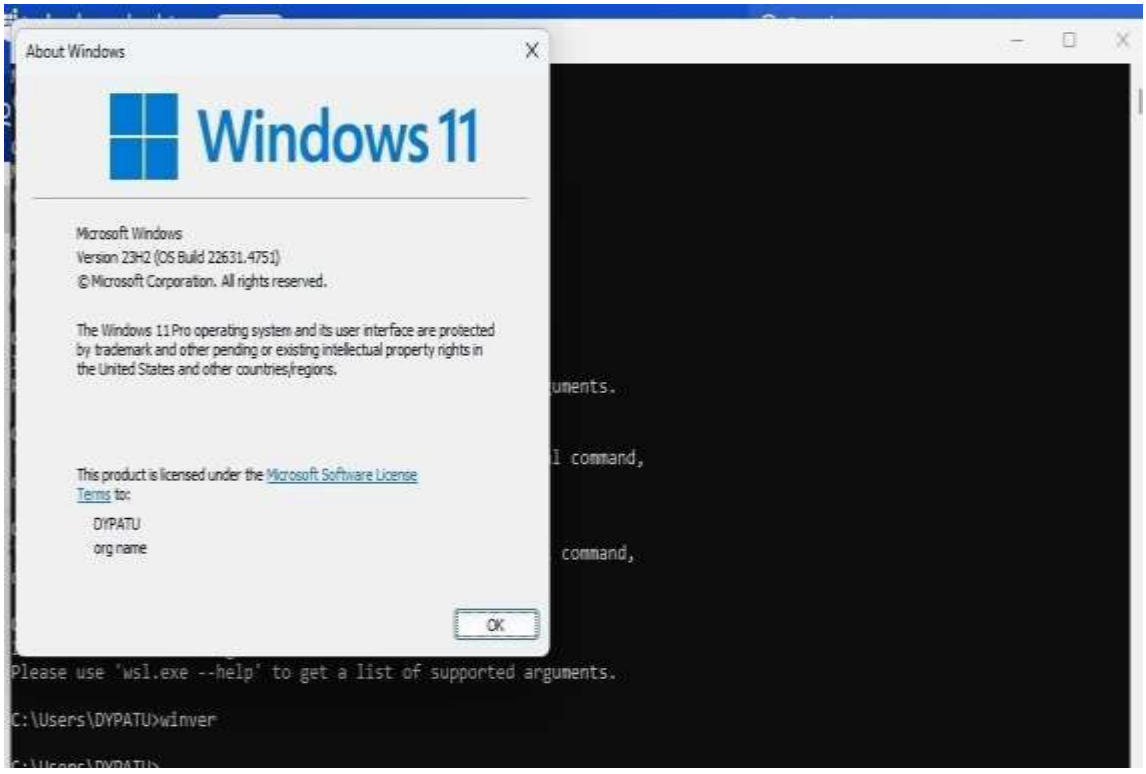
version 4.40.0 (187762)

Complete the installation of Docker Desktop.

- (•) Use recommended settings (requires administrator password)
  Docker Desktop automatically sets the necessary configurations that work for most developers.
- ( ) Use advanced settings
  You manually set your preferred configurations.

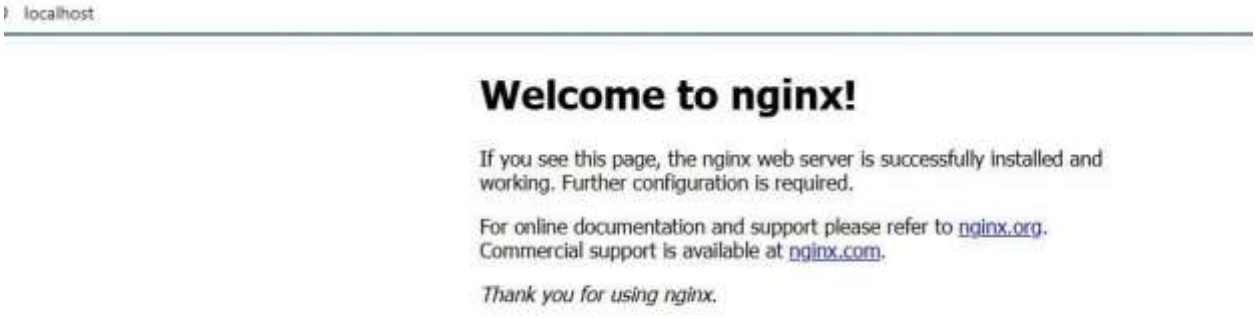
Finish


docker desktop
Search
Sign in
Sign in to use additional features enabled by your organization
Containers
Images
Volumes
Builds
Docker Hub
Docker Scout
Extensions
Containers
View all your running containers and applications. Learn more
Your running containers show up here
A container is an isolated environment for your code
What is a container?
5 mins
How do I run a container?
6 mins
View more in the Learning center


About Windows
Windows 11
Microsoft Windows
Version 23H2 (OS Build 22631.4751)
© Microsoft Corporation. All rights reserved.
The Windows 11 Pro operating system and its user interface are protected by trademark and other pending or existing intellectual property rights in the United States and other countries/regions.
This product is licensed under the Microsoft Software License Terms to:
DYPATU
org name
OK
uments.
l command,
command,
Please use 'wsl.exe --help' to get a list of supported arguments.
C:\Users\DYPATU>winver

1) docker –v
2) docker run --detach --publish 80:80 --name webserver nginx
3) >docker image ls
4) docker container ls

```
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DYPATU>docker -v
Docker version 28.0.4, build b8034c0

C:\Users\DYPATU>docker run --detach --publish 80:80 --name webserver nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
254e724d7786: Pull complete
913115292750: Pull complete
3e544d53ce49: Pull complete
4f21ed9ac0c0: Pull complete
d38f2ef2d6f2: Pull complete
40a6e9f4e456: Pull complete
d3dc5ec71e9d: Pull complete
Digest: sha256:c15da6c91de8d2f436196f3a768483ad32c258ed4e1beb3d367a27ed67253e66
Status: Downloaded newer image for nginx:latest
a26651cd604d41bf19db72a97800cb179cfc0597d72305a6928f1f28033a4ae6

C:\Users\DYPATU>docker image ls
REPOSITORY   TAG       IMAGE ID       CREATED       SIZE
nginx        latest    a830707172e8   3 weeks ago   192MB

C:\Users\DYPATU>docker container ls
CONTAINER ID   IMAGE     COMMAND                  CREATED         STATUS         PORTS                NAMES
a26651cd604d   nginx     "/docker-entrypoint.…"   3 minutes ago   Up 3 minutes   0.0.0.0:80->80/tcp   webserver

C:\Users\DYPATU>docker info
Client:
```



5) Docker info

```
C:\Users\DYPATU>docker info
Client:
 Version:    28.0.4
 Context:    desktop-linux
 Debug Mode: false
 Plugins:
  ai: Docker AI Agent - Ask Gordon (Docker Inc.)
    Version:  v1.1.3
    Path:     C:\Program Files\Docker\cli-plugins\docker-ai.exe
  buildx: Docker Buildx (Docker Inc.)
    Version:  v0.22.0-desktop.1
    Path:     C:\Program Files\Docker\cli-plugins\docker-buildx.exe
  cloud: Docker Cloud (Docker Inc.)
    Version:  0.2.20
    Path:     C:\Program Files\Docker\cli-plugins\docker-cloud.exe
  compose: Docker Compose (Docker Inc.)
    Version:  v2.34.0-desktop.1
    Path:     C:\Program Files\Docker\cli-plugins\docker-compose.exe
  debug: Get a shell into any image or container (Docker Inc.)
    Version:  0.0.38
    Path:     C:\Program Files\Docker\cli-plugins\docker-debug.exe
  desktop: Docker Desktop commands (Beta) (Docker Inc.)
    Version:  v0.1.6
    Path:     C:\Program Files\Docker\cli-plugins\docker-desktop.exe
  dev: Docker Dev Environments (Docker Inc.)
    Version:  v0.1.2
    Path:     C:\Program Files\Docker\cli-plugins\docker-dev.exe
  extension: Manages Docker extensions (Docker Inc.)
    Version:  v0.2.27
    Path:     C:\Program Files\Docker\cli-plugins\docker-extension.exe
  init: Creates Docker-related starter files for your project (Docker Inc.)
    Version:  v1.4.0
    Path:     C:\Program Files\Docker\cli-plugins\docker-init.exe
  sbom: View the packaged-based Software Bill Of Materials (SBOM) for an image (Anchore Inc.)
    Version:  0.6.0
    Path:     C:\Program Files\Docker\cli-plugins\docker-sbom.exe
  scout: Docker Scout (Docker Inc.)
    Version:  v1.17.0
    Path:     C:\Program Files\Docker\cli-plugins\docker-scout.exe
```

```
   Profile: unconfined
 Kernel Version: 5.15.167.4-microsoft-standard-WSL2
 Operating System: Docker Desktop
 OSType: linux
 Architecture: x86_64
 CPUs: 12
 Total Memory: 7.609GiB
 Name: docker-desktop
 ID: eacad917-cc15-4947-bd88-5f065994274c
 Docker Root Dir: /var/lib/docker
 Debug Mode: false
 HTTP Proxy: http.docker.internal:3128
 HTTPS Proxy: http.docker.internal:3128
 No Proxy: hubproxy.docker.internal
 Labels:
  com.docker.desktop.address=npipe://\\.\pipe\docker_cli
 Experimental: false
 Insecure Registries:
  hubproxy.docker.internal:5555
  ::1/128
  127.0.0.0/8
 Live Restore Enabled: false

WARNING: No blkio throttle.read_bps_device support
WARNING: No blkio throttle.write_bps_device support
WARNING: No blkio throttle.read_iops_device support
WARNING: No blkio throttle.write_iops_device support
WARNING: DOCKER_INSECURE_NO_IPTABLES_RAW is set
WARNING: daemon is not using the default seccomp profile
```

Docker inspect

```
C:\Users\DYPATU>docker inspect
docker: 'docker inspect' requires at least 1 argument

Usage:  docker inspect [OPTIONS] NAME|ID [NAME|ID...]

See 'docker inspect --help' for more information

C:\Users\DYPATU>docker inspect a26651cd604d
[
```

```
C:\Users\DYPATU>docker inspect a26651cd604d
[
    {
        "Id": "a26651cd604d41bf19db72a97800cb179cfc0597d72305a6928f1f28033a4ae6",
        "Created": "2025-05-09T03:56:06.579453067Z",
        "Path": "/docker-entrypoint.sh",
        "Args": [
            "nginx",
            "-g",
            "daemon off;"
        ],
        "State": {
            "Status": "running",
            "Running": true,
            "Paused": false,
            "Restarting": false,
            "OOMKilled": false,
            "Dead": false,
            "Pid": 488,
            "ExitCode": 0,
            "Error": "",
            "StartedAt": "2025-05-09T03:56:08.065966859Z",
            "FinishedAt": "0001-01-01T00:00:00Z"
        },
        "Image": "sha256:a830707172e8069c09cf6c67a04e23e5a1a332d70a90a54999b76273a928b9ce",
        "ResolvConfPath": "/var/lib/docker/containers/a26651cd604d41bf19db72a97800cb179cfc0597d7
        "HostnamePath": "/var/lib/docker/containers/a26651cd604d41bf19db72a97800cb179cfc0597d723
        "HostsPath": "/var/lib/docker/containers/a26651cd604d41bf19db72a97800cb179cfc0597d72305a
        "LogPath": "/var/lib/docker/containers/a26651cd604d41bf19db72a97800cb179cfc0597d72305a69
        "Name": "/webserver",
        "RestartCount": 0,
        "Driver": "overlay2",
        "Platform": "linux",
        "MountLabel": "",
        "ProcessLabel": "",
```

```
            "Ports": {
                "80/tcp": [
                    {
                        "HostIp": "0.0.0.0",
                        "HostPort": "80"
                    }
                ]
            },
            "HairpinMode": false,
            "LinkLocalIPv6Address": "",
            "LinkLocalIPv6PrefixLen": 0,
            "SecondaryIPAddresses": null,
            "SecondaryIPv6Addresses": null,
            "EndpointID": "44a6a75946c9f35b07e685e09d14fdc1f62c95cd4ca5dba1c29900a2240c1d76",
            "Gateway": "172.17.0.1",
            "GlobalIPv6Address": "",
            "GlobalIPv6PrefixLen": 0,
            "IPAddress": "172.17.0.2",
            "IPPrefixLen": 16,
            "IPv6Gateway": "",
            "MacAddress": "de:7a:ab:2c:b8:b3",
            "Networks": {
                "bridge": {
                    "IPAMConfig": null,
                    "Links": null,
                    "Aliases": null,
                    "MacAddress": "de:7a:ab:2c:b8:b3",
                    "DriverOpts": null,
                    "GwPriority": 0,
                    "NetworkID": "f3fa4bc2895939345ee587c5ddcd6bad07b919bf05917c6067690afb5d009e3f",
                    "EndpointID": "44a6a75946c9f35b07e685e09d14fdc1f62c95cd4ca5dba1c29900a2240c1d76",
                    "Gateway": "172.17.0.1",
                    "IPAddress": "172.17.0.2",
                    "IPPrefixLen": 16,
                    "IPv6Gateway": "",
                    "GlobalIPv6Address": "",
                    "GlobalIPv6PrefixLen": 0,
                    "DNSNames": null
                }
            }
        }
    }
]
```