

DOCKER

Install Link:

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

Install Docker Desktop on Windows

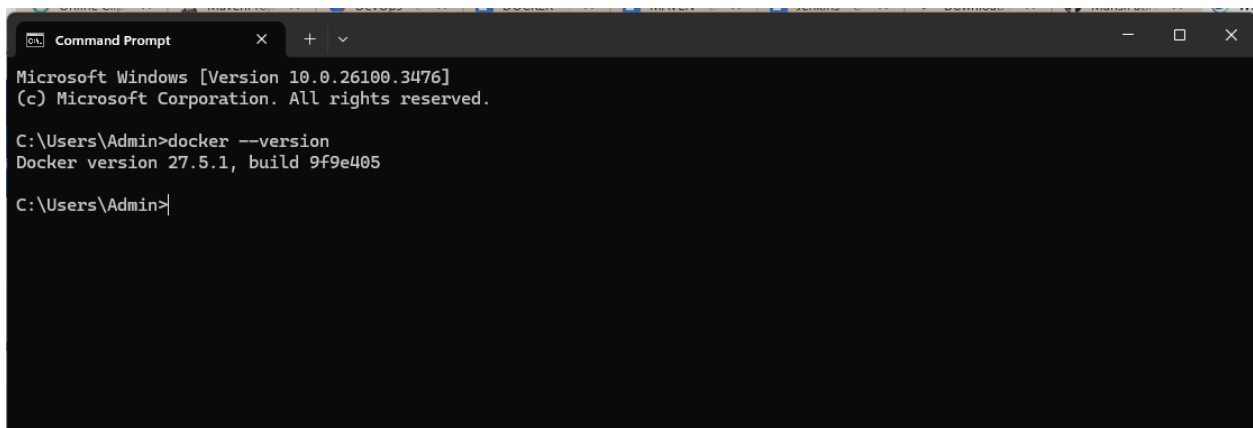
Docker Desktop terms

Commercial use of Docker Desktop in larger enterprises (more than 250 employees OR more than \$10 million USD in annual revenue) requires a [paid subscription](#) [↗](#).

This page contains the download URL, information about system requirements, and instructions on how to install Docker Desktop for Windows.

Docker Desktop for Windows - x86_64

Check version



```
Command Prompt
Microsoft Windows [Version 10.0.26100.3476]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>docker --version
Docker version 27.5.1, build 9f9e405

C:\Users\Admin>
```

```
C:\Users\Admin>docker version
Client:
Version:           27.5.1
API version:       1.47
Go version:        go1.22.11
Git commit:        9f9e405
Built:             Wed Jan 22 13:41:44 2025
OS/Arch:           windows/amd64
Context:           desktop-linux

Server: Docker Desktop 4.38.0 (181591)
Engine:
Version:           27.5.1
API version:       1.47 (minimum version 1.24)
Go version:        go1.22.11
Git commit:        4c9b3b0
Built:             Wed Jan 22 13:41:17 2025
OS/Arch:           linux/amd64
Experimental:      false
containerd:
Version:           1.7.25
GitCommit:         bcc810d6b9066471b0b6fa75f557a15a1cbf31bb
runc:
Version:           1.1.12
GitCommit:         v1.1.12-0-g51d5e946
docker-init:
Version:           0.19.0
GitCommit:         de40ad0

C:\Users\Admin>
```

```
C:\Users\Admin>docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
<none>              <none>             0e6313ea470f       10 days ago        117MB
ubuntu              latest             72297848456d       8 weeks ago        117MB
hello-world         latest             7e1a4e2d11e2       2 months ago       20.4kB

C:\Users\Admin>
```

Docker -help

Search: nginx

Ctrl+K

nginx

Images (50)

Containers (0)

Volumes (0)

Extensions (1)

Docs (1)

Hub images (50)

Hub private repos (0)

Local images (0)

nginx

1B+ · 10K+

Tag
latest

Pull

Run

nginx/nginx-ingress

1B+ · 101

nginx/nginx-prometheus-exporter

50M+ · 48

nginx/unit

10M+ · 65

nginx/nginx-ingress-operator

1M+ · 2

nginx/nginx-quic-qns

10K+ · 1

nginx/nginxaas-loadbalancer-kubernetes

4.7K · 0

nginx/unit-preview

4.6K · 0

bitnami/nginx

100M+ · 197

ubuntu/nginx

10M+ · 128

to open

to navigate

ESC to close

SCROLL for more results

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RAM 0.80 GB · CPU 0.00% · Disk: 1.24 GB used (limit 1006.85 GB)

dockerhub Explore My Hub Search Docker Hub [Ctrl+K] [M]

Explore / Official Images / nginx

nginx
Docker Official Image · 1B+ · ☆10K+

Official build of Nginx.

docker pull nginx

Copy

WEB SERVERS

Overview Tags

Quick reference

- Maintained by: [the NGINX Docker Maintainers](#)
- Where to get help: [the Docker Community Slack](#), [Server Fault](#), [Unix & Linux](#), or [Stack Overflow](#)

Supported tags and respective Dockerfile links

- 1.27.4, mainline, 1, 1.27, latest, 1.27.4-bookworm, mainline-bookworm, 1-bookworm, 1.27-bookworm, bookworm
- 1.27.4-perl, mainline-perl, 1-perl, 1.27-perl, perl, 1.27.4-bookworm-perl, mainline-

Recent tags

stable-perl, stable-bookworm-perl, perl, mainline-perl, mainline-bookworm-perl, bookworm-perl, 1.27.4-perl, 1.27.4-bookworm-perl, 1.27-perl, 1.27-bookworm-perl

About Official Images

Docker Official Images are a curated set of Docker open source and drop-in solution repositories.

Docker images

```
C:\Users\Admin>docker images
REPOSITORY      TAG              IMAGE ID         CREATED          SIZE
<none>          <none>          0e6313ea470f    11 days ago     117MB
ubuntu          latest          72297848456d    2 months ago    117MB
hello-world     latest          7e1a4e2d11e2    2 months ago    20.4kB

C:\Users\Admin>
```

Docker ps

-l, -a

```
C:\Users\Admin>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED          STATUS          PORTS          NAMES
C:\Users\Admin>
```

```
C:\Users\Admin>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED          STATUS          PORTS          NAMES
C:\Users\Admin>docker ps -l
CONTAINER ID   IMAGE      COMMAND                  CREATED          STATUS          PORTS          NAMES
9ff1e64cd5a3   ubuntu    "/bin/bash"             11 days ago     Exited (137)    11 days ago    agitated_mcclintock
C:\Users\Admin>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED          STATUS          PORTS          NAMES
9ff1e64cd5a3   ubuntu    "/bin/bash"             11 days ago     Exited (137)    11 days ago    agitated_mcclintock
9921b72254e1   ubuntu    "/bin/bash"             11 days ago     Exited (0)      11 days ago    serene_bose
```

```

C:\Users\Admin>docker run nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
417c4bccf534: Download complete
6e909acdb790: Download complete
97f5c0f51d43: Download complete
e7e0ca015e55: Download complete
5aaa34f5b9c2: Download complete
373fe654e984: Download complete
c22eb46e871a: Download complete
Digest: sha256:124b44bfc9ccd1f3cedf4b592d4d1e8bddb78b51ec2ed5056c52d3692baebc19
Status: Downloaded newer image for nginx:latest
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/03/29 06:10:50 [notice] 1#1: using the "epoll" event method
2025/03/29 06:10:50 [notice] 1#1: nginx/1.27.4
2025/03/29 06:10:50 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2025/03/29 06:10:50 [notice] 1#1: OS: Linux 5.15.167.4-microsoft-standard-WSL2
2025/03/29 06:10:50 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/03/29 06:10:50 [notice] 1#1: start worker processes
2025/03/29 06:10:50 [notice] 1#1: start worker process 29
2025/03/29 06:10:50 [notice] 1#1: start worker process 30
2025/03/29 06:10:50 [notice] 1#1: start worker process 31
2025/03/29 06:10:50 [notice] 1#1: start worker process 32
2025/03/29 06:10:50 [notice] 1#1: start worker process 33
2025/03/29 06:10:50 [notice] 1#1: start worker process 34
2025/03/29 06:10:50 [notice] 1#1: start worker process 35
2025/03/29 06:10:50 [notice] 1#1: start worker process 36
2025/03/29 06:10:50 [notice] 1#1: start worker process 37
2025/03/29 06:10:50 [notice] 1#1: start worker process 38
2025/03/29 06:10:50 [notice] 1#1: start worker process 39
2025/03/29 06:10:50 [notice] 1#1: start worker process 40
2025/03/29 06:10:55 [notice] 1#1: signal 2 (SIGINT) received, exiting

```

```

C:\Users\Admin>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES
06a56096940a   nginx    "/docker-entrypoint. ..." 26 seconds ago Exited (0) 20 seconds ago
9ff1e64cd5a3   ubuntu   "/bin/bash"              11 days ago   Exited (137) 11 days ago
9921b72254e1   ubuntu   "/bin/bash"              11 days ago   Exited (0) 11 days ago
serene_bose

```

```

2025/03/29 06:10:55 [notice] 1#1: worker process 34 exited with code 0
2025/03/29 06:10:55 [notice] 1#1: worker process 35 exited with code 0
2025/03/29 06:10:55 [notice] 1#1: worker process 37 exited with code 0
2025/03/29 06:10:55 [notice] 1#1: worker process 39 exited with code 0
2025/03/29 06:10:55 [notice] 1#1: signal 29 (SIGIO) received
2025/03/29 06:10:55 [notice] 1#1: signal 17 (SIGCHLD) received from 37
2025/03/29 06:10:55 [notice] 1#1: signal 17 (SIGCHLD) received from 32
2025/03/29 06:10:55 [notice] 1#1: worker process 29 exited with code 0
2025/03/29 06:10:55 [notice] 1#1: worker process 32 exited with code 0
2025/03/29 06:10:55 [notice] 1#1: worker process 38 exited with code 0
2025/03/29 06:10:55 [notice] 1#1: signal 29 (SIGIO) received
2025/03/29 06:10:55 [notice] 1#1: signal 17 (SIGCHLD) received from 36
2025/03/29 06:10:55 [notice] 1#1: worker process 36 exited with code 0
2025/03/29 06:10:55 [notice] 1#1: worker process 40 exited with code 0
2025/03/29 06:10:55 [notice] 1#1: exit

```

```

C:\Users\Admin>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES
06a56096940a   nginx    "/docker-entrypoint. ..." 26 seconds ago Exited (0) 20 seconds ago
9ff1e64cd5a3   ubuntu   "/bin/bash"              11 days ago   Exited (137) 11 days ago
9921b72254e1   ubuntu   "/bin/bash"              11 days ago   Exited (0) 11 days ago
serene_bose

```

```

C:\Users\Admin>docker stop 06a56096940a
06a56096940a

```

```

C:\Users\Admin>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES
06a56096940a   nginx    "/docker-entrypoint. ..." 2 minutes ago Exited (0) 2 minutes ago
9ff1e64cd5a3   ubuntu   "/bin/bash"              11 days ago   Exited (137) 11 days ago
9921b72254e1   ubuntu   "/bin/bash"              11 days ago   Exited (0) 11 days ago
serene_bose

```

```

C:\Users\Admin>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
<none>        <none>    0e6313ea470f  11 days ago   117MB
nginx         latest    124b44bfc9cc  7 weeks ago   279MB
ubuntu        latest    72297848456d  2 months ago  117MB
hello-world   latest    7e1a4e2d11e2  2 months ago  20.4kB

```

```
C:\Users\Admin>docker ps --help

Usage:  docker ps [OPTIONS]

List containers

Aliases:
  docker container ls, docker container list, docker container ps, docker ps

Options:
  -a, --all           Show all containers (default shows just running)
  -f, --filter filter  Filter output based on conditions provided
  --format string      Format output using a custom template:
                       'table':          Print output in table format
                       with column headers (default)
                       'table TEMPLATE':  Print output in table format
                                           using the given Go template
                       'json':           Print in JSON format
                       'TEMPLATE':       Print output using the given
                                           Go template.
                       Refer to https://docs.docker.com/go/formatting/
                       for more information about formatting output with
                       templates
  -n, --last int       Show n last created containers (includes all
                       states) (default -1)
  -l, --latest         Show the latest created container (includes all
                       states)
  --no-trunc           Don't truncate output
  -q, --quiet          Only display container IDs
  -s, --size           Display total file sizes
```



```
C:\Users\Admin>docker run -d -p4000:80 -p3000:80 nginx
b1eba25be2d882d078fd66a22e68a0deea68c090e99671026fab70d7b1150153

C:\Users\Admin>
```

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

```
C:\Users\Admin>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                    NAMES
856dd390841   nginx     "/docker-entrypoint..." 3 minutes ago  Up 3 minutes  80/tcp                  objective_buck
574a05712ca3   ubuntu   "/bin/bash"              6 minutes ago  Exited (0) 5 minutes ago  sharp_lamarr
fd0430186aa1   nginx     "/docker-entrypoint..." 15 minutes ago  Created                                program
b1eba25be2d8   nginx     "/docker-entrypoint..." 18 minutes ago  Up 18 minutes  0.0.0.0:3000->80/tcp, 0.0.0.0:4000->80/tcp  unruffled_ride
78a493d8a60f   nginx     "/docker-entrypoint..." 18 minutes ago  Created                                clever_williamson
406b3c292a4f   nginx     "/docker-entrypoint..." 19 minutes ago  Created                                keen_noyce
6161af0d4002   nginx     "/docker-entrypoint..." 21 minutes ago  Exited (137) 19 minutes ago  angry_hypatia
9e209408e321   nginx     "/docker-entrypoint..." 23 minutes ago  Up 23 minutes  0.0.0.0:2000->80/tcp    jovial_knuth
445c6428df82   nginx     "/docker-entrypoint..." 30 minutes ago  Up 30 minutes  80/tcp                  naughty_einstein
50794ace8304   hello-world "/hello"                 31 minutes ago  Exited (0) 31 minutes ago  heuristic_raman
06a56096940a   nginx     "/docker-entrypoint..." 35 minutes ago  Exited (0) 35 minutes ago  keen_solomon
9ff1e64cd5a3   ubuntu   "/bin/bash"              11 days ago   Exited (137) 11 days ago  agitated_mcclintock
9921b72254e1   ubuntu   "/bin/bash"              11 days ago   Exited (0) 11 days ago  serene_bose

C:\Users\Admin>docker run --name programdocker -d -p7000:80 nginx
1cbbe8114e4005e57e5d245353df39f34af498f5dd8b415408f807583d9228e1

C:\Users\Admin>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                    NAMES
1cbbe8114e40   nginx     "/docker-entrypoint..." 12 seconds ago  Up 12 seconds  0.0.0.0:7000->80/tcp    programdocker
856dd390841   nginx     "/docker-entrypoint..." 4 minutes ago  Up 4 minutes  80/tcp                  objective_buck
574a05712ca3   ubuntu   "/bin/bash"              6 minutes ago  Exited (0) 5 minutes ago  sharp_lamarr
fd0430186aa1   nginx     "/docker-entrypoint..." 15 minutes ago  Created                                program
b1eba25be2d8   nginx     "/docker-entrypoint..." 18 minutes ago  Up 18 minutes  0.0.0.0:3000->80/tcp, 0.0.0.0:4000->80/tcp  unruffled_ride
78a493d8a60f   nginx     "/docker-entrypoint..." 19 minutes ago  Created                                clever_williamson
406b3c292a4f   nginx     "/docker-entrypoint..." 19 minutes ago  Created                                keen_noyce
6161af0d4002   nginx     "/docker-entrypoint..." 21 minutes ago  Exited (137) 20 minutes ago  angry_hypatia
9e209408e321   nginx     "/docker-entrypoint..." 23 minutes ago  Up 23 minutes  0.0.0.0:2000->80/tcp    jovial_knuth
445c6428df82   nginx     "/docker-entrypoint..." 30 minutes ago  Up 30 minutes  80/tcp                  naughty_einstein
50794ace8304   hello-world "/hello"                 31 minutes ago  Exited (0) 31 minutes ago  heuristic_raman
06a56096940a   nginx     "/docker-entrypoint..." 35 minutes ago  Exited (0) 35 minutes ago  keen_solomon
9ff1e64cd5a3   ubuntu   "/bin/bash"              11 days ago   Exited (137) 11 days ago  agitated_mcclintock
9921b72254e1   ubuntu   "/bin/bash"              11 days ago   Exited (0) 11 days ago  serene_bose

C:\Users\Admin>docker rm programdocker
Error response from daemon: cannot remove container "/programdocker": container is running: stop the container before removing or force remove

C:\Users\Admin>docker rm -f programdocker
programdocker

C:\Users\Admin>
```

```
FROM openjdk:17-jdk-slim
WORKDIR/app
COPY target/*.jar app.jar
EXPOSE 8080
ENTRYPOINT ["java", "-jar", "app.jar"]
```

Build App

```
Command Prompt
Microsoft Windows [Version 10.0.26100.3775]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin> cd C:\simple-java-maven-app

C:\simple-java-maven-app> mvn clean package
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.mycompany.app:my-app >-----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- clean:3.2.0:clean (default-clean) @ my-app ---
[INFO] Deleting C:\simple-java-maven-app\target
[INFO]
[INFO] --- enforcer:3.5.0:enforce (enforce-maven) @ my-app ---
[INFO] Rule 0: org.apache.maven.enforcer.rules.version.RequireMavenVersion passed
[INFO] Rule 1: org.apache.maven.enforcer.rules.version.RequireJavaVersion passed
[INFO]
[INFO] --- resources:3.3.1:resources (default-resources) @ my-app ---
[INFO] skip non existing resourceDirectory C:\simple-java-maven-app\src\main\resources
[INFO]
[INFO] --- compiler:3.14.0:compile (default-compile) @ my-app ---
[INFO] Recompiling the module because of changed source code.
[INFO] Compiling 1 source file with javac [debug release 17] to target\classes
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ my-app ---
[INFO] skip non existing resourceDirectory C:\simple-java-maven-app\src\test\resources
[INFO]
```

```
C:\simple-java-maven-app> rename DockerFile.txt DockerFile

C:\simple-java-maven-app> docker build -t simple-java-maven-app
```



```
Command Prompt
ERROR: failed to solve: dockerfile parse error on line 2: unknown instruction: WORKDIR/app

C:\simple-java-maven-app>docker build -t simple-java-maven-app .
[+] Building 185.1s (9/9) FINISHED                                docker:desktop-linux
=> [internal] load build definition from Dockerfile                0.0s
=> => transferring dockerfile: 155B                                0.0s
=> [internal] load metadata for docker.io/library/openjdk:17-jdk-slim 2.6s
=> [auth] library/openjdk:pull token for registry-1.docker.io      0.0s
=> [internal] load .dockerignore                                    0.0s
=> => transferring context: 2B                                       0.0s
=> [1/3] FROM docker.io/library/openjdk:17-jdk-slim@sha256:aaa3b3cb27e3e520b8f116863d0580c438ed55ecfa0bc126b41 182.0s
=> => resolve docker.io/library/openjdk:17-jdk-slim@sha256:aaa3b3cb27e3e520b8f116863d0580c438ed55ecfa0bc126b41f6 0.0s
=> => sha256:44d3aa8d076675d49d85180b0ced9daef210fe4fdff4b4b422b9cf384e591d0 1.58MB / 1.58MB 0.5s
=> => sha256:6ce99fdf16e86bd02f6ad66a0e1334878528b5a4b5487850a76e0c08a7a27d56 187.90MB / 187.90MB 180.5s
=> => sha256:1fe172e4850f03bb45d41a20174112bc119fbfec42a650edbbd8491aee32e3c3 31.38MB / 31.38MB 63.5s
=> => extracting sha256:1fe172e4850f03bb45d41a20174112bc119fbfec42a650edbbd8491aee32e3c3 0.7s
=> => extracting sha256:44d3aa8d076675d49d85180b0ced9daef210fe4fdff4b4b422b9cf384e591d0 0.1s
=> => extracting sha256:6ce99fdf16e86bd02f6ad66a0e1334878528b5a4b5487850a76e0c08a7a27d56 1.4s
=> [internal] load build context                                    0.1s
=> => transferring context: 2.83kB                                   0.1s
=> [2/3] WORKDIR /app                                              0.1s
=> [3/3] COPY target/*.jar app.jar                                0.0s
=> exporting to image                                              0.2s
=> => exporting layers                                              0.1s
=> => exporting manifest sha256:e686eea6062053c2210d4f437b1d1ed8cb151a24989958d32f26eb8f2ba65e3e 0.0s
=> => exporting config sha256:1d3c170bf323f42f9c6cc31bf8e3f4dca3fbb9c53f175542a43f48e627dcd5f8 0.0s
=> => exporting attestation manifest sha256:9478ad0cd68caeafa2796c4bc8a8ed3eaa9abe916ab946e877e3783efb8d0969 0.0s
=> => exporting manifest list sha256:15d4dff8a5dabf9b4dad64b5af9131ab8555867b7c484480a2fd7a5f58640ce6 0.0s
=> => naming to docker.io/library/simple-java-maven-app:latest 0.0s
=> => unpacking to docker.io/library/simple-java-maven-app:latest 0.0s

C:\simple-java-maven-app>
```

```
C:\simple-java-maven-app>docker login
Authenticating with existing credentials...
Login Succeeded

C:\simple-java-maven-app>docker tag simple-java-maven-app mansi2004patil/simple-java-maven-app:latest


C:\simple-java-maven-app>docker images
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
simple-java-maven-app latest      15d4dff8a5da  4 minutes ago  642MB
mansi2004patil/simple-java-maven-app latest      15d4dff8a5da  4 minutes ago  642MB
<none>              <none>     0e6313ea470f  4 weeks ago   117MB
nginx               latest     124b44bfc9cc  2 months ago  279MB
ubuntu              latest     72297848456d  2 months ago  117MB
hello-world         latest     7e1a4e2d11e2  2 months ago  20.4kB

C:\simple-java-maven-app>
```

```
C:\simple-java-maven-app>docker push mansi2004patil/simple-java-maven-app:latest
The push refers to repository [docker.io/mansi2004patil/simple-java-maven-app]
52b912cd6ad6: Pushed
1bc67afcad18: Pushed
44d3aa8d0766: Pushed
6ce99fdf16e8: Pushing [==>] 9.437MB/187.9MB
1fe172e4850f: Pushing [=====] 13.63MB/31.38MB
fff6cc5c91e55: Pushed
```

```
C:\simple-java-maven-app>docker push mansi2004patil/simple-java-maven-app:latest
The push refers to repository [docker.io/mansi2004patil/simple-java-maven-app]
52b912cd6ad6: Pushed
1bc67afc18: Pushed
44d3aa8d0766: Pushed
6ce99fdf16e8: Pushed
1fe172e4850f: Pushed
ff6cc5c91e55: Pushed
latest: digest: sha256:15d4dff8a5dabf9b4dad64b5af9131ab8555867b7c484480a2fd7a5f58640ce6 size: 856

C:\simple-java-maven-app>
```

 dockerhub


Explore

My Hub

Search Docker Hub

Ctrl+K

M

 mansi2004patil
Docker Personal

Repositories

Settings

Default privacy

Notifications

Billing

Usage

Pulls

Storage

Repositories

All repositories within the mansi2004patil namespace.

All content

Create a repository

Name	Last Pushed	Contains	Visibility	Scout
mansi2004patil/simple-java-maven-app	3 minutes ago	IMAGE	Public	Inactive

1-1 of 1