Домашна 2 – Docker

Chapter 3:

1. docker info

```
Server:
 Containers: 0
  Running: 0
  Paused: 0
  Stopped: 0
 Images: 0
 Server Version: 27.5.1
 Storage Driver: overlay2
  Backing Filesystem: extfs
  Supports d_type: true
  Using metacopy: false
  Native Overlay Diff: true
  userxattr: false
 Logging Driver: json-file
 Cgroup Driver: cgroupfs
 Cgroup Version: 1
 Plugins:
  Volume: local
  Network: bridge host ipvlan macvlan null overlay
  Log: awslogs fluentd gcplogs gelf journald json-file local splunk syslog
 CDI spec directories:
  /etc/cdi
  /var/run/cdi
 Swarm: inactive
 Runtimes: runc io.containerd.runc.v2 nvidia
 Default Runtime: runc
 Init Binary: docker-init
 containerd version: bcc810d6b9066471b0b6fa75f557a15a1cbf31bb
 runc version: v1.1.12-0-g51d5e946
 init version: de40ad0
 Security Options:
  seccomp
   Profile: unconfined
 Kernel Version: 5.15.153.1-microsoft-standard-WSL2
 Operating System: Docker Desktop
 OSType: linux
 Architecture: x86_64
 CPUs: 8
 Total Memory: 11.65GiB
 Name: docker-desktop
 ID: 7a41db65-83c9-4c3a-af73-fae87fd2f670
 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
  127.0.0.0/8
 Live Restore Enabled: false
```

2. docker run -i -t ubuntu

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker run -i -t ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
6a7813e071bf: Pull complete
Digest: sha256:72297848456d5d37d1262630108ab308d3e9ec7ed1c3286a32fe09856619a782
Status: Downloaded newer image for ubuntu:latest
root@bf84e112b8f6:/#
```

3. Сега е во Ubuntu container-от

```
root@bf84e112b8f6:/# hostname
bf84e112b8f6
```

4. cat /etc/hosts

```
root@bf84e112b8f6:/# cat /etc/hosts
127.0.0.1        localhost
::1     localhost ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
172.17.0.2        bf84e112b8f6
```

5. hostname -I

```
root@bf84e112b8f6:/# hostname -I
172.17.0.2
```

6. ps -aux

```
root@bf84e112b8f6:/# ps -aux
USER       PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.0   4588  3988 pts/0    Ss   00:26   0:00 /bin/bash
root        13  0.0  0.0   7888  3972 pts/0    R+   00:33   0:00 ps -aux
```

7. apt-get update

```
root@bf84e112b8f6:/# apt-get update;
Get:1 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:3 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [841 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/main amd64 Packages [1808 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [34.0 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [909 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [1062 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [331 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [19.3 MB]
Get:12 http://archive.ubuntu.com/ubuntu noble/restricted amd64 Packages [117 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1345 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [955 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [38.7 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1163 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [16.0 kB]
Fetched 28.6 MB in 4s (7945 kB/s)
Reading package lists... Done
```

apt-get install vim

```
root@bf84e112b8f6:/# apt-get install vim
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libexpat1 libgpm2 libpython3.12-minimal libpython3.12-stdlib libpython3.12t64 libreadline8t64 libsodium23 libsqlite3-0
  media-types netbase readline-common tzdata vim-common vim-runtime xxd
Suggested packages:
  gpm readline-doc ctags vim-doc vim-scripts
The following NEW packages will be installed:
  libexpat1 libgpm2 libpython3.12-minimal libpython3.12-stdlib libpython3.12t64 libreadline8t64 libsodium23 libsqlite3-0
  media-types netbase readline-common tzdata vim vim-common vim-runtime xxd
0 upgraded, 16 newly installed, 0 to remove and 18 not upgraded.
Need to get 16.3 MB of archives.
After this operation, 72.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libexpat1 amd64 2.6.1-2ubuntu0.2 [87.4 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libpython3.12-minimal amd64 3.12.3-1ubuntu0.5 [835 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 media-types all 10.1.0 [27.5 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble/main amd64 netbase all 6.4 [13.1 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 tzdata all 2024b-0ubuntu0.24.04.1 [274 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/main amd64 readline-common all 8.2-4build1 [56.5 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble/main amd64 libreadline8t64 amd64 8.2-4build1 [153 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libsqlite3-0 amd64 3.45.1-1ubuntu2.1 [701 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libpython3.12-stdlib amd64 3.12.3-1ubuntu0.5 [2069 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 vim-common all 2:9.1.0016-1ubuntu7.6 [385 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 xxd amd64 2:9.1.0016-1ubuntu7.6 [63.3 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble/main amd64 libgpm2 amd64 1.20.7-11 [14.1 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libpython3.12t64 amd64 3.12.3-1ubuntu0.5 [2339 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble/main amd64 libsodium23 amd64 1.0.18-1build3 [161 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 vim-runtime all 2:9.1.0016-1ubuntu7.6 [7281 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 vim amd64 2:9.1.0016-1ubuntu7.6 [1880 kB]
Fetched 16.3 MB in 2s (7265 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package libexpat1:amd64.
(Reading database ... 4383 files and directories currently installed.)
Preparing to unpack .../00-libexpat1_2.6.1-2ubuntu0.2_amd64.deb ...
Unpacking libexpat1:amd64 (2.6.1-2ubuntu0.2) ...
Selecting previously unselected package libpython3.12-minimal:amd64.
Preparing to unpack .../01-libpython3.12-minimal_3.12.3-1ubuntu0.5_amd64.deb ...
```

8. ps -a

```
root@bf84e112b8f6:/# ps -a
  PID TTY          TIME CMD
  346 pts/0    00:00:00 ps
```

9. docker run --name bob_the_container -i -t ubuntu

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker run --name bob_the_container -i -t ubuntu
root@4f625c9f7578:/#
```

10. docker start bob_the_container or docker start 4f625c9f7578

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker start bob_the_container
bob_the_container
```

11. docker attach bob_the_container or docker attach 4f625c9f7578

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker attach bob_the_container
root@4f625c9f7578:/#
```

12. docker run --name daemon_dave -d ubuntu bash -c "while true; do echo hello world; sleep 1; done"

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker run --name daemon_dave -d ubuntu bash -c "while true; do echo hello world; sleep 1; done"
a4837cfdc1686c18c2f9ebc5605b061655f3a9d0c552050ab90ec4a79b8a22c9
```

13. docker logs daemon_dave

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker logs daemon_dave
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
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hello world
hello world
hello world
hello world
hello world
hello world
```

14. docker logs -f daemon_dave

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker logs -f daemon_dave
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
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hello world
hello world
hello world
hello world
hello world
hello world
hello world
hello world
```

15. docker logs -ft daemon_dave

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker logs -ft daemon_dave
2025-03-10T00:45:38.820868810Z hello world
2025-03-10T00:45:39.8234462179Z hello world
2025-03-10T00:45:40.825482901Z hello world
2025-03-10T00:45:41.825958080Z hello world
2025-03-10T00:45:42.827225286Z hello world
2025-03-10T00:45:43.828729638Z hello world
2025-03-10T00:45:44.830152752Z hello world
2025-03-10T00:45:45.831629352Z hello world
2025-03-10T00:45:46.832914747Z hello world
2025-03-10T00:45:47.834377506Z hello world
2025-03-10T00:45:48.836229968Z hello world
2025-03-10T00:45:49.837510517Z hello world
2025-03-10T00:45:50.839010752Z hello world
2025-03-10T00:45:51.840304190Z hello world
2025-03-10T00:45:52.841889012Z hello world
2025-03-10T00:45:53.843281044Z hello world
2025-03-10T00:45:54.844604775Z hello world
2025-03-10T00:45:55.845703704Z hello world
2025-03-10T00:45:56.847175020Z hello world
2025-03-10T00:45:57.848749071Z hello world
2025-03-10T00:45:58.850218297Z hello world
2025-03-10T00:45:59.851612702Z hello world
2025-03-10T00:46:00.852939512Z hello world
2025-03-10T00:46:01.854230635Z hello world
2025-03-10T00:46:02.855910970Z hello world
2025-03-10T00:46:03.857474185Z hello world
2025-03-10T00:46:04.859141529Z hello world
2025-03-10T00:46:05.860722163Z hello world
2025-03-10T00:46:06.862008754Z hello world
2025-03-10T00:46:07.863438097Z hello world
2025-03-10T00:46:08.864550396Z hello world
2025-03-10T00:46:09.865844402Z hello world
2025-03-10T00:46:10.867194112Z hello world
2025-03-10T00:46:11.867243425Z hello world
2025-03-10T00:46:12.868693759Z hello world
2025-03-10T00:46:13.870340873Z hello world
2025-03-10T00:46:14.872077217Z hello world
2025-03-10T00:46:15.873443862Z hello world
2025-03-10T00:46:16.874748508Z hello world
2025-03-10T00:46:17.875938323Z hello world
2025-03-10T00:46:18.877115053Z hello world
2025-03-10T00:46:19.878438453Z hello world
2025-03-10T00:46:20.880075515Z hello world
2025-03-10T00:46:21.881640514Z hello world
2025-03-10T00:46:22.882765653Z hello world
2025-03-10T00:46:23.884070358Z hello world
2025-03-10T00:46:24.885472437Z hello world
2025-03-10T00:46:25.886951227Z hello world
```

16. docker top daemon_dave

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker top daemon_dave
UID              PID                PPID              C            STIME        TTY          TIM
E                CMD
root             1128               1107              0            00:45        ?            00:
00:00            bash -c while true; do echo hello world; sleep 1; done
root             1399               1128              0            00:49        ?            00:
00:00            sleep 1
```

17. docker exec -d daemon_dave touch /etc/new_config_file

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker exec -d daemon_dave touch /etc/new_config_file
```

18. docker stop daemon_dave

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker stop daemon_dave
daemon_dave
```

19. $ docker run --restart=always --name daemon_alice -d ubuntu bash -c "while true;
do echo hello world; sleep 1; done"

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker run --restart=always --name daemon_alice -d ubuntu bash -c "while true; do echo hello world; sleep 1; done"
5bdfe86132e30610303811bb2a8120dd7dda5f1f0514f5fc17d5a0a64f434506
```

20. docker inspect daemon_alice

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker inspect daemon_alice
[
    {
        "Id": "5bdfe86132e30610303811bb2a8120dd7dda5f1f0514f5fc17d5a0a64f434506",
        "Created": "2025-03-10T00:54:31.110142658Z",
        "Path": "bash",
        "Args": [
            "-c",
            "while true; do echo hello world; sleep 1; done"
        ],
        "State": {
            "Status": "running",
            "Running": true,
            "Paused": false,
            "Restarting": false,
            "OOMKilled": false,
            "Dead": false,
            "Pid": 1735,
            "ExitCode": 0,
            "Error": "",
            "StartedAt": "2025-03-10T00:54:31.344119349Z",
            "FinishedAt": "0001-01-01T00:00:00Z"
        },
        "Image": "sha256:a04dc4851cbcbb42b54d1f52a41f5f9eca6a5fd03748c3f6eb2cbeb238ca99bd",
        "ResolvConfPath": "/var/lib/docker/containers/5bdfe86132e30610303811bb2a8120dd7dda5f1f0514f5fc17d5a0a64f4345
lv.conf",
        "HostnamePath": "/var/lib/docker/containers/5bdfe86132e30610303811bb2a8120dd7dda5f1f0514f5fc17d5a0a64f434506
me",
        "HostsPath": "/var/lib/docker/containers/5bdfe86132e30610303811bb2a8120dd7dda5f1f0514f5fc17d5a0a64f434506/ho
        "LogPath": "/var/lib/docker/containers/5bdfe86132e30610303811bb2a8120dd7dda5f1f0514f5fc17d5a0a64f434506/5bdf
30610303811bb2a8120dd7dda5f1f0514f5fc17d5a0a64f434506-json.log",
        "Name": "/daemon_alice",
        "RestartCount": 0,
        "Driver": "overlay2",
        "Platform": "linux",
        "MountLabel": "",
        "ProcessLabel": "",
        "AppArmorProfile": "",
        "ExecIDs": null,
        "HostConfig": {
            "Binds": null,
            "ContainerIDFile": "",
            "LogConfig": {
                "Type": "json-file",
                "Config": {}
            },
            "NetworkMode": "bridge",
            "PortBindings": {},
            "RestartPolicy": {
                "Name": "always",
                "MaximumRetryCount": 0
            },
            "AutoRemove": false,
```

21. docker inspect --format='{{ .State.Running }}' daemon_alice

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker inspect --format='{{ .State.Running }}' daemon_alice
true
```

22. docker inspect --format '{{ .NetworkSettings.IPAddress }}' daemon_alice

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker inspect --format '{{ .NetworkSettings.IPAddress }}' daemon_alice
172.17.0.2
```

23. docker inspect --format '{{.Name}} {{.State.Running}}' daemon_dave daemon_alice

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker inspect --format '{{.Name}} {{.State.Running}}' daemon_dave daemon_alice
/daemon_dave false
/daemon_alice true
```

24. docker rm -f `docker ps -a -q`

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker rm -f `docker ps -a -q`
5bdfe86132e3
a4837cfdc168
4f625c9f7578
bf84e112b8f6
```

Chapter 4:

1. docker run -i -t --name another_container_mum ubuntu

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker run -i -t --name another_container_mum ubuntu
root@4ff98dbb7434:/#
```

2. docker images

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker images
REPOSITORY     TAG        IMAGE ID       CREATED       SIZE
ubuntu         latest     a04dc4851cbc   6 weeks ago   78.1MB
```

3. docker pull ubuntu:18.04

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker pull ubuntu:18.04
18.04: Pulling from library/ubuntu
7c457f213c76: Pull complete
Digest: sha256:152dc042452c496007f07ca9127571cb9c29697f42acbfad72324b2bb2e43c98
Status: Downloaded newer image for ubuntu:18.04
docker.io/library/ubuntu:18.04

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview ubuntu:18.04
```

4. docker images

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker images
REPOSITORY     TAG        IMAGE ID       CREATED         SIZE
ubuntu         latest     a04dc4851cbc   6 weeks ago     78.1MB
ubuntu         18.04      f9a80a55f492   21 months ago   63.2MB
```

5. docker run -t -i --name new_container ubuntu:18.04

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker run -t -i --name new_container ubuntu:18.04
root@2e65b97abae2:/#
```

6. docker run -t -i --name next_container ubuntu

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker run -t -i --name next_container ubuntu
root@e47a9f9dbb4f:/#
```

7. docker pull fedora:21

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker pull fedora:21
21: Pulling from library/fedora
fced6e4a4c06: Pull complete
Digest: sha256:a268e5e12257c7770eb44c24041baf5e728fba2eed1a84f007b81845ded0a485
Status: Downloaded newer image for fedora:21
docker.io/library/fedora:21

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview fedora:21
```

8. docker images fedora

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker images fedora
REPOSITORY     TAG        IMAGE ID       CREATED        SIZE
fedora         21         ba6369d667d1   8 years ago    241MB
```

9. docker pull fedora:20

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker pull fedora:20
20: Pulling from library/fedora
4abd98c7489c: Pull complete
Digest: sha256:5d5a02b873d298da9bca4b84440c5cd698b0832560c850d92cf389cef58bc549
Status: Downloaded newer image for fedora:20
docker.io/library/fedora:20

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview fedora:20
```

10. docker search puppet

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker search puppet
NAME                                          DESCRIPTION                                    STARS     OFFICIAL
puppet/continuous-delivery-for-puppet-enterprise  Automated testing and promotion of infrastru…  7
puppet/puppetserver                           A Docker Image for running Puppet Server. Wi…  116
puppet/puppetboard                            The Puppet Board dashboard for PuppetDB        20
puppet/puppetdb                               A Docker image for running PuppetDB            38
puppet/puppet-dev-tools                       Puppet development tools such as PDK, onceov…  9
puppet/puppet-agent                           Puppet Agent as a Docker Image.                16
puppet/puppet-agent-alpine                    Puppet Agent as a Docker Image. Based on Alp…  17
puppet/puppet-agent-ubuntu                    Puppet Agent as a Docker Image. Based on the…  13
puppet/pdk                                    Puppet Development Kit (PDK)                    3
puppet/r10k                                   r10k on a Docker image. Based on Alpine        4
puppet/puppet-bolt                            Puppet Bolt as a docker image                  4
puppet/puppetexplorer                         The Puppet Explorer dashboard for PuppetDB     13
puppet/facter                                 Facter as a Docker Image                       3
puppet/lumogon                                Lumogon is the best way to inspect, analyze …  5
puppet/tlser                                  A tiny utility for ensuring TLS certificates…  0
puppet/kubetool                                                                              1
puppet/gogrpc                                 A container for building golang projects tha…  2
puppet/discocoreui                            A Docker container used to build Discovery C…  3
puppet/iac_release                                                                           0
jumanjiman/puppet                             Use Puppet to configure CoreOS hosts           3
puppet/pipelines                              Puppet Pipelines                               0
puppet/autogenic                                                                             0
puppet/puppet-inventory                                                                      2
puppet/kerminator-build-image                                                                0
puppet/estate-reporting-query                                                                0
```

11. docker pull jamtur01/puppetmaster

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker pull jamtur01/puppetmaster
Using default tag: latest
latest: Pulling from jamtur01/puppetmaster
[DEPRECATION NOTICE] Docker Image Format v1 and Docker Image manifest version 2, schema 1 support is disabled by default and will be removed
 in an upcoming release. Suggest the author of docker.io/jamtur01/puppetmaster:latest to upgrade the image to the OCI Format or Docker Image
 manifest v2, schema 2. More information at https://docs.docker.com/go/deprecated-image-specs/
```

12. docker run -i -t jamtur01/puppetmaster

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker run -i -t jamtur01/puppetmaster
Unable to find image 'jamtur01/puppetmaster:latest' locally
latest: Pulling from jamtur01/puppetmaster
docker: [DEPRECATION NOTICE] Docker Image Format v1 and Docker Image manifest version 2, schema 1 support is disabled by default and will be
 removed in an upcoming release. Suggest the author of docker.io/jamtur01/puppetmaster:latest to upgrade the image to the OCI Format or Dock
er Image manifest v2, schema 2. More information at https://docs.docker.com/go/deprecated-image-specs/.
See 'docker run --help'.
```

13. docker login

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker login
Authenticating with existing credentials...
Login Succeeded
```

14. docker run -i -t ubuntu

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker run -i -t ubuntu
root@c0652d18a85e:/#
```

15. apt-get -yqq update

apt-get -y install apache2

```
root@c0652d18a85e:/# apt-get -yqq update
root@c0652d18a85e:/# apt-get -y install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  adduser apache2-bin apache2-data apache2-utils ca-certificates krb5-locales libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap
  libaprutil1t64 libbrotli1 libcurl4t64 libexpat1 libgdbm-compat4t64 libgdbm6t64 libgssapi-krb5-2 libicu74 libjansson4 libk5crypto3
  libkeyutils1 libkrb5-3 libkrb5support0 libldap-common libldap2 liblua5.4-0 libnghttp2-14 libperl5.38t64 libpsl5t64 librtmp1 libsasl2-2
  libsasl2-modules libsasl2-modules-db libsqlite3-0 libssh-4 libssl3t64 libxml2 media-types netbase openssl perl perl-base
  perl-modules-5.38 publicsuffix ssl-cert
Suggested packages:
  liblocale-gettext-perl cron quota ecryptfs-utils apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser ufw gdbm-l10n
  krb5-doc krb5-user libsasl2-modules-gssapi-mit | libsasl2-modules-gssapi-heimdal libsasl2-modules-ldap libsasl2-modules-otp
  libsasl2-modules-sql perl-doc libterm-readline-gnu-perl | libterm-readline-perl-perl make libtap-harness-archive-perl
The following NEW packages will be installed:
  adduser apache2 apache2-bin apache2-data apache2-utils ca-certificates krb5-locales libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap
  libaprutil1t64 libbrotli1 libcurl4t64 libexpat1 libgdbm-compat4t64 libgdbm6t64 libgssapi-krb5-2 libicu74 libjansson4 libk5crypto3
  libkeyutils1 libkrb5-3 libkrb5support0 libldap-common libldap2 liblua5.4-0 libnghttp2-14 libperl5.38t64 libpsl5t64 librtmp1 libsasl2-2
  libsasl2-modules libsasl2-modules-db libsqlite3-0 libssh-4 libxml2 media-types netbase openssl perl perl-modules-5.38 publicsuffix
  ssl-cert
The following packages will be upgraded:
  libssl3t64 perl-base
2 upgraded, 43 newly installed, 0 to remove and 16 not upgraded.
Need to get 30.0 MB of archives.
After this operation, 109 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 perl-base amd64 5.38.2-3.2build2.1 [1823 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 perl-modules-5.38 all 5.38.2-3.2build2.1 [3110 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 libgdbm6t64 amd64 1.23-5.1build1 [34.4 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble/main amd64 libgdbm-compat4t64 amd64 1.23-5.1build1 [6710 B]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libperl5.38t64 amd64 5.38.2-3.2build2.1 [4867 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 perl amd64 5.38.2-3.2build2.1 [231 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libapr1t64 amd64 1.7.2-3.1ubuntu0.1 [108 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libexpat1 amd64 2.6.1-2ubuntu0.2 [87.4 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libssl3t64 amd64 3.0.13-0ubuntu3.5 [1940 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1t64 amd64 1.6.3-1.1ubuntu7 [91.9 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libsqlite3-0 amd64 3.45.1-1ubuntu2.1 [701 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.3-1.1ubuntu7 [11.2 kB]
```

16. docker commit c0652d18a85e markoivanovk1/apache2

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker commit c0652d18a85e markoivanovsk1/apache2
sha256:9edf455cd847b375b9de5d75d3f779762a01132d883f44eb2200675183dff625
```

17. docker images markoivanovsk1/apache2

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker images markoivanovsk1/apache2
REPOSITORY              TAG      IMAGE ID       CREATED          SIZE
markoivanovsk1/apache2  latest   9edf455cd847   21 seconds ago   245MB
```

18. docker commit -m "A new custom image" -a "Marko Ivanovski" c0652d18a85e
markoivanovsk1/apache2:webserver

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker commit -m "A new custom image" -a "Marko Ivanovski" c0652d18a85e markoivanovsk1/apache2:webserver
sha256:f752bf11b953294468cf1aa391125686b82e373b89afd33610ff5c2b39626429
```

19. docker inspect markoivanovsk1/apache2:webserver

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker inspect markoivanovsk1/apache2:webserver
[
    {
        "Id": "sha256:f752bf11b953294468cf1aa391125686b82e373b89afd33610ff5c2b39626429",
        "RepoTags": [
            "markoivanovsk1/apache2:webserver"
        ],
        "RepoDigests": [],
        "Parent": "sha256:a04dc4851cbcbb42b54d1f52a41f5f9eca6a5fd03748c3f6eb2cbeb238ca99bd",
        "Comment": "A new custom image",
        "Created": "2025-03-10T14:04:49.739234718Z",
        "DockerVersion": "27.5.1",
        "Author": "Marko Ivanovski",
        "Config": {
            "Hostname": "c0652d18a85e",
            "Domainname": "",
            "User": "",
            "AttachStdin": true,
            "AttachStdout": true,
            "AttachStderr": true,
            "Tty": true,
            "OpenStdin": true,
            "StdinOnce": true,
            "Env": [
                "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
            ],
            "Cmd": [
                "/bin/bash"
            ],
            "Image": "ubuntu",
            "Volumes": null,
            "WorkingDir": "",
            "Entrypoint": null,
            "OnBuild": null,
            "Labels": {
                "org.opencontainers.image.ref.name": "ubuntu",
                "org.opencontainers.image.version": "24.04"
            }
        },
        "Architecture": "amd64",
        "Os": "linux",
        "Size": 245299867,
        "GraphDriver": {
            "Data": {
                "LowerDir": "/var/lib/docker/overlay2/9a50aee91716b8687b901ea0cce540be7885a57bb04466b223b73876ac15b507/diff",
                "MergedDir": "/var/lib/docker/overlay2/1b19a2e753184178eee637cec8e3041c6c4a92d425b5bd6ed82c8994b11f5169/merged",
                "UpperDir": "/var/lib/docker/overlay2/1b19a2e753184178eee637cec8e3041c6c4a92d425b5bd6ed82c8994b11f5169/diff",
                "WorkDir": "/var/lib/docker/overlay2/1b19a2e753184178eee637cec8e3041c6c4a92d425b5bd6ed82c8994b11f5169/work"
            },
            "Name": "overlay2"
        },
        "RootFS": {
            "Type": "layers",
            "Layers": [
                "sha256:4b7c01ed0534d4f9be9cf97d068da1598c6c20b26cb6134fad066defdb6d541d",
                "sha256:9a94414464dbd4e2320b3d2c195d10ff0d9a9639860d2644ea79d68b6b0b212c1"
            ]
        },
        "Metadata": {
            "LastTagTime": "2025-03-10T14:04:49.798090458Z"
        }
    }
]
```

20. docker run -t -i markoivanovsk1/apache2:webserver
root@bd7611f7a4bb:/# service apache2 status

* apache2 is not running

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ docker run -t -i markoivanovsk1/apache2:webserver
root@bd7611f7a4bb:/# service apache2 status
 * apache2 is not running
root@bd7611f7a4bb:/#
```

21. mkdir static_web

cd static_web

touch Dockerfile

```
marko@Markos-Desktop MINGW64 /d/Projects/test
$ mkdir static_web

marko@Markos-Desktop MINGW64 /d/Projects/test
$ cd static_web/

marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ touch Dockerfile

marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$
```

22. nano Dockerfile

```
  GNU nano 8.0                                    Dockerfile
# Version: 0.0.1
FROM ubuntu:18.04
LABEL maintainer="markoivanovski.mi@icloud.com"
RUN apt-get update && apt-get install -y nginx
RUN echo 'Hi, I am in your container' > /usr/share/nginx/html/index.html
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]
```

23. docker build -t="markoivanovsk1/static_web" .

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker build -t="markoivanovsk1/static_web" .
[+] Building 22.3s (7/7) FINISHED                                                    docker:desktop-linux
 => [internal] load build definition from Dockerfile                                              0.1s
 => => transferring dockerfile: 287B                                                              0.0s
 => [internal] load metadata for docker.io/library/ubuntu:18.04                                   0.0s
 => [internal] load .dockerignore                                                                 0.1s
 => => transferring context: 2B                                                                   0.0s
 => [1/3] FROM docker.io/library/ubuntu:18.04                                                     0.1s
 => [2/3] RUN apt-get update && apt-get install -y nginx                                          20.7s
 => [3/3] RUN echo 'Hi, I am in your container' > /usr/share/nginx/html/index.html                0.5s
 => exporting to image                                                                            0.5s
 => => exporting layers                                                                           0.4s
 => => writing image sha256:974cffe754bd70edc5ce64f2ed62a0eaf61ee3a4ab3d7df1697a37918c1d3188      0.0s
 => => naming to docker.io/markoivanovsk1/static_web                                              0.0s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/ibb7zjevzi1a0r2t61x99fthn

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview
```

24. docker build -t="markoivanovsk1/static_web:v1" .

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker build -t="markoivanovsk1/static_web:v1" .
[+] Building 0.4s (7/7) FINISHED                                          docker:desktop-linux
 => [internal] load build definition from Dockerfile                                      0.0s
 => => transferring dockerfile: 287B                                                      0.0s
 => [internal] load metadata for docker.io/library/ubuntu:18.04                           0.0s
 => [internal] load .dockerignore                                                         0.0s
 => => transferring context: 2B                                                           0.0s
 => [1/3] FROM docker.io/library/ubuntu:18.04                                             0.0s
 => CACHED [2/3] RUN apt-get update && apt-get install -y nginx                           0.0s
 => CACHED [3/3] RUN echo 'Hi, I am in your container' > /usr/share/nginx/html/index.html 0.0s
 => exporting to image                                                                    0.1s
 => => exporting layers                                                                   0.0s
 => => writing image sha256:974cffe754bd70edc5ce64f2ed62a0eaf61ee3a4ab3d7df1697a37918c1d3188  0.0s
 => => naming to docker.io/markoivanovsk1/static_web:v1                                   0.0s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/mv8eybfvatzjq8f62qku6123y

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview
```

25. docker   build   -t="jamtur01/static_web:v1"   github.com/turnbullpress/docker-static_web

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker build -t="jamtur01/static_web:v1" github.com/turnbullpress/docker-static_web
[+] Building 29.7s (7/7) FINISHED                                          docker:desktop-linux
 => [internal] load git source github.com/turnbullpress/docker-static_web                 2.5s
 => [internal] load metadata for docker.io/library/ubuntu:16.04                           1.9s
 => [auth] library/ubuntu:pull token for registry-1.docker.io                             0.0s
 => [1/3] FROM docker.io/library/ubuntu:16.04@sha256:1f1a2d56de1d604801a9671f301190704c25d604a416f59e03c04f5c6ffee0d6  6.7s
 => => resolve docker.io/library/ubuntu:16.04@sha256:1f1a2d56de1d604801a9671f301190704c25d604a416f59e03c04f5c6ffee0d6  0.1s
 => => sha256:b51569e7c50720acf6860327847fe342a1afbe148d24c529fb81df105e3eed01 857B / 857B  0.5s
 => => sha256:da8ef40b9ecabc2679fe2419957220c0272a965c5cf7e0269fa1aeeb8c56f2e1 528B / 528B  0.4s
 => => sha256:1f1a2d56de1d604801a9671f301190704c25d604a416f59e03c04f5c6ffee0d6 1.42kB / 1.42kB  0.0s
 => => sha256:a3785f78ab8547ae2710c89e627783cfa7ee7824d3468cae6835c9f4eae23ff7 1.15kB / 1.15kB  0.0s
 => => sha256:b6f50765242581c887ff1acc2511fa2d885c52d8fb3ac8c4bba131fd86567f2e 3.36kB / 3.36kB  0.0s
 => => sha256:58690f9b18fca6469a14da4e212c96849469f9b1be6661d2342a4bf01774aa50 46.50MB / 46.50MB  2.3s
 => => sha256:fb15d46c38dcd1ea0b1990006c3366ecd10c79d374f341687eb2cb23a2c8672e 170B / 170B  0.6s
 => => extracting sha256:58690f9b18fca6469a14da4e212c96849469f9b1be6661d2342a4bf01774aa50  3.6s
 => => extracting sha256:b51569e7c50720acf6860327847fe342a1afbe148d24c529fb81df105e3eed01  0.0s
 => => extracting sha256:da8ef40b9ecabc2679fe2419957220c0272a965c5cf7e0269fa1aeeb8c56f2e1  0.0s
 => => extracting sha256:fb15d46c38dcd1ea0b1990006c3366ecd10c79d374f341687eb2cb23a2c8672e  0.0s
 => [2/3] RUN apt-get update && apt-get install -y nginx                                  17.3s
 => [3/3] RUN echo 'Hi, I am in your container'     >/var/www/html/index.html            0.5s
 => exporting to image                                                                    0.5s
 => => exporting layers                                                                   0.4s
 => => writing image sha256:7f8cb5da9469d6ccc04df456f3a65c023b0976a621581b11270d0d3f525d3c54  0.0s
 => => naming to docker.io/jamtur01/static_web:v1                                         0.0s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/2bwhxrvett8rl9803sron8qmk

 1 warning found (use docker --debug to expand):
 - MaintainerDeprecated: Maintainer instruction is deprecated in favor of using label (line 3)

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview
```

26. docker build --no-cache -t="markoivanovsk1/static_web" .

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker build --no-cache -t="markoivanovsk1/static_web" .
[+] Building 24.9s (7/7) FINISHED                                          docker:desktop-linux
 => [internal] load build definition from Dockerfile                                      0.0s
 => => transferring dockerfile: 287B                                                      0.0s
 => [internal] load metadata for docker.io/library/ubuntu:18.04                           0.0s
 => [internal] load .dockerignore                                                         0.0s
 => => transferring context: 2B                                                           0.0s
 => CACHED [1/3] FROM docker.io/library/ubuntu:18.04                                      0.0s
 => [2/3] RUN apt-get update && apt-get install -y nginx                                  23.4s
 => [3/3] RUN echo 'Hi, I am in your container' > /usr/share/nginx/html/index.html        0.6s
 => exporting to image                                                                    0.5s
 => => exporting layers                                                                   0.4s
 => => writing image sha256:1faeb9925c9365de7387ed47f23652644e5d4a5b7358ba09f0538bc1047e39d1  0.0s
 => => naming to docker.io/markoivanovsk1/static_web                                      0.0s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/iipjdl8kgbxagypg8z1tkjkyq

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview
```

27. docker history 1faeb9925c93

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker history 1faeb9925c93
IMAGE          CREATED         CREATED BY                                      SIZE     COMMENT
1faeb9925c93   4 minutes ago   CMD ["nginx" "-g" "daemon off;"]                0B       buildkit.dockerfile.v0
<missing>      4 minutes ago   EXPOSE map[80/tcp:{}]                           0B       buildkit.dockerfile.v0
<missing>      4 minutes ago   RUN /bin/sh -c echo 'Hi, I am in your contai…   27B      buildkit.dockerfile.v0
<missing>      4 minutes ago   RUN /bin/sh -c apt-get update && apt-get ins…   106MB    buildkit.dockerfile.v0
<missing>      4 minutes ago   LABEL maintainer=markoivanovski.mi@icloud.com   0B       buildkit.dockerfile.v0
<missing>      21 months ago   /bin/sh -c #(nop)  CMD ["/bin/bash"]            0B
<missing>      21 months ago   /bin/sh -c #(nop) ADD file:3c74e7e08cbf9a876…   63.2MB
<missing>      21 months ago   /bin/sh -c #(nop)  LABEL org.opencontainers.…   0B
<missing>      21 months ago   /bin/sh -c #(nop)  LABEL org.opencontainers.…   0B
<missing>      21 months ago   /bin/sh -c #(nop)  ARG LAUNCHPAD_BUILD_ARCH     0B
<missing>      21 months ago   /bin/sh -c #(nop)  ARG RELEASE                  0B
```

28. docker run -d -p 80 --name static_web markoivanovsk1/static_web nginx -g "daemon off;"

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker run -d -p 80 --name static_web markoivanovsk1/static_web nginx -g "daemon off;"
06597391e6ec0582f0f29298a3906c1d0858bf0dc59c8eff52bea05b0ef91dfd
```

29. docker ps -l

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker ps -l
CONTAINER ID   IMAGE                       COMMAND                CREATED          STATUS            PORTS                    NAMES
06597391e6ec   markoivanovsk1/static_web   "nginx -g 'daemon of…" About a minute ago   Up About a minute   0.0.0.0:61841->80/tcp   static_web
```

30. docker port 06597391e6ec 80

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker port 06597391e6ec 80
0.0.0.0:61841
```

31. docker run -d -p 127.0.0.1::80 --name static_web_random markoivanovsk1/static_web nginx -g "daemon off;"

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker run -d -p 127.0.0.1::80 --name static_web_random markoivanovsk1/static_web nginx -g "daemon off;"
492b89ca2929494acd2dd54e0d962012fd09697ac80bde33163baa3dcd171a4c
```

32. docker run -d -P --name static_web_all markoivanovsk1/static_web nginx -g "daemon off;"

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker run -d -P --name static_web_all markoivanovsk1/static_web nginx -g "daemon off;"
2cfc8af049af9f43b6f59294779ac6df30179a9aaabbc79c37aed9e1ba44991a
```

33. Web Server од container- от

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.

34. docker run -i -t markoivanovsk1/static_web /bin/true

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker run -i -t markoivanovsk1/static_web /bin/true
docker: Error response from daemon: failed to create task for container: failed to create shim task: OCI runtime create failed: runc create failed: unable
 to start container process: exec: "C:/Program Files/Git/usr/bin/true": stat C:/Program Files/Git/usr/bin/true: no such file or directory: unknown.
```

35. CMD ["/bin/bash"]

```
  GNU nano 8.0                                    Dockerfile                                    Modified
# Version: 0.0.1
FROM ubuntu:18.04
LABEL maintainer="markoivanovski.mi@icloud.com"
RUN apt-get update && apt-get install -y nginx
RUN echo 'Hi, I am in your container' > /usr/share/nginx/html/index.html
EXPOSE 80
CMD ["/bin/bash"]
```

36. docker build -t="markoivanovsk1/test" .

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker build -t="markoivanovsk1/test" .
[+] Building 0.4s (7/7) FINISHED                                                          docker:desktop-linux
 => [internal] load build definition from Dockerfile                                                     0.0s
 => => transferring dockerfile: 270B                                                                     0.0s
 => [internal] load metadata for docker.io/library/ubuntu:18.04                                          0.0s
 => [internal] load .dockerignore                                                                        0.0s
 => => transferring context: 2B                                                                          0.0s
 => [1/3] FROM docker.io/library/ubuntu:18.04                                                            0.0s
 => CACHED [2/3] RUN apt-get update && apt-get install -y nginx                                          0.0s
 => CACHED [3/3] RUN echo 'Hi, I am in your container' > /usr/share/nginx/html/index.html                0.0s
 => exporting to image                                                                                   0.1s
 => => exporting layers                                                                                  0.0s
 => => writing image sha256:a90f0de1fd5f639a60478f26ca1c78a0342870827582b3d06892f1cad39b2e11             0.0s
 => => naming to docker.io/markoivanovsk1/test                                                           0.0s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/owtzrmw2psfai8lz2d0nejvqc

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview
```

37. docker run -t -i markoivanovsk1/test

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker run -t -i markoivanovsk1/test
root@94c027548b68:/#
```

38. ENTRYPOINT ["/usr/sbin/nginx"]

```
  GNU nano 8.0                                    Dockerfile                                    Modified
# Version: 0.0.1
FROM ubuntu:18.04
LABEL maintainer="markoivanovski.mi@icloud.com"
RUN apt-get update && apt-get install -y nginx
RUN echo 'Hi, I am in your container' > /usr/share/nginx/html/index.html
EXPOSE 80
ENTRYPOINT ["/usr/sbin/nginx"]
```

39. docker build -t="markoivanovsk1/static_web" .

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker build -t="markoivanovsk1/static_web" .
[+] Building 0.4s (7/7) FINISHED                                                          docker:desktop-linux
 => [internal] load build definition from Dockerfile                                                     0.1s
 => => transferring dockerfile: 283B                                                                     0.0s
 => [internal] load metadata for docker.io/library/ubuntu:18.04                                          0.0s
 => [internal] load .dockerignore                                                                        0.0s
 => => transferring context: 2B                                                                          0.0s
 => [1/3] FROM docker.io/library/ubuntu:18.04                                                            0.0s
 => CACHED [2/3] RUN apt-get update && apt-get install -y nginx                                          0.0s
 => CACHED [3/3] RUN echo 'Hi, I am in your container' > /usr/share/nginx/html/index.html                0.0s
 => exporting to image                                                                                   0.1s
 => => exporting layers                                                                                  0.0s
 => => writing image sha256:0542c839109fa2249ddef1771b2946d23a0a7ad57d3f2f4ea5ecaf8cb5642010             0.0s
 => => naming to docker.io/markoivanovsk1/static_web                                                     0.0s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/1ang4f7uhnje43a6yjhtuyeev

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview
```

40. docker run -t -i markoivanovsk1/static_web -g "daemon off;"

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker run -t -i markoivanovsk1/static_web -g "daemon off;"
```

41. nano Dockerfile

```
  GNU nano 8.0                              Dockerfile                              Modified
# Version: 0.0.1
FROM ubuntu:18.04
LABEL maintainer="markoivanovski.mi@icloud.com"
WORKDIR /app
ENV RVM_PATH /app
RUN apt-get update && apt-get install -y nginx
RUN echo 'Hi, I am in your container' > /usr/share/nginx/html/index.html
EXPOSE 80
ENTRYPOINT ["/usr/sbin/nginx", "-g", "daemon off;"]
CMD [-h]
```

42. docker inspect markoivanovsk1/apache2

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker inspect markoivanovsk1/apache2
[
    {
        "Id": "sha256:9edf455cd847b375b9de5d75d3f779762a01132d883f44eb2200675183dff625",
        "RepoTags": [
            "markoivanovsk1/apache2:latest"
        ],
        "RepoDigests": [],
        "Parent": "sha256:a04dc4851cbcbb42b54d1f52a41f5f9eca6a5fd03748c3f6eb2cbeb238ca99bd",
        "Comment": "",
        "Created": "2025-03-10T13:53:53.13939929Z",
        "DockerVersion": "27.5.1",
        "Author": "",
        "Config": {
            "Hostname": "c0652d18a85e",
            "Domainname": "",
            "User": "",
            "AttachStdin": true,
            "AttachStdout": true,
            "AttachStderr": true,
            "Tty": true,
            "OpenStdin": true,
            "StdinOnce": true,
            "Env": [
                "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
            ],
            "Cmd": [
                "/bin/bash"
            ],
            "Image": "ubuntu",
            "Volumes": null,
            "WorkingDir": "",
            "Entrypoint": null,
            "OnBuild": null,
            "Labels": {
                "org.opencontainers.image.ref.name": "ubuntu",
                "org.opencontainers.image.version": "24.04"
            }
```

43. nano Dockerfile

```
  GNU nano 8.0                                    Dockerfile
# Version: 0.0.1
FROM ubuntu:18.04
LABEL maintainer="james@example.com"
RUN apt-get update; apt-get install -y apache2
ENV APACHE_RUN_USER www-data
ENV APACHE_RUN_GROUP www-data
ENV APACHE_LOG_DIR /var/log/apache2
ENV APACHE_PID_FILE /var/run/apache2.pid
ENV APACHE_RUN_DIR /var/run/apache2
ENV APACHE_LOCK_DIR /var/lock/apache2
ONBUILD ADD . /var/www/
EXPOSE 80
ENTRYPOINT ["/usr/sbin/apachectl"]
CMD ["-D", "FOREGROUND"]
```

44. docker build -t="markoivanovsk1/apache3" .


```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker build -t="markoivanovsk1/apache3" .
[+] Building 28.0s (6/6) FINISHED                                          docker:desktop-linux
 => [internal] load build definition from Dockerfile                                       0.0s
 => => transferring dockerfile: 462B                                                       0.0s
 => WARN: LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 5)   0.0s
 => WARN: LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 6)   0.0s
 => WARN: LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 7)   0.0s
 => WARN: LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 8)   0.0s
 => WARN: LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 9)   0.0s
 => WARN: LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 10)  0.0s
 => [internal] load metadata for docker.io/library/ubuntu:18.04                            0.0s
 => [internal] load .dockerignore                                                          0.0s
 => => transferring context: 2B                                                            0.0s
 => CACHED [1/2] FROM docker.io/library/ubuntu:18.04                                       0.0s
 => [2/2] RUN apt-get update; apt-get install -y apache2                                  26.9s
 => exporting to image                                                                     0.8s
 => => exporting layers                                                                    0.7s
 => => writing image sha256:cb243fd4b8c67fa54895ba044f49f7b15fbebc44bed8e4a7927d667dcbff2619   0.0s
 => => naming to docker.io/markoivanovsk1/apache3                                          0.0s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/iac4dq8n1iav3m20z27or3xtv

 6 warnings found (use docker --debug to expand):
 - LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 5)
 - LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 6)
 - LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 7)
 - LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 8)
 - LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 9)
 - LegacyKeyValueFormat: "ENV key=value" should be used instead of legacy "ENV key value" format (line 10)

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview
```

45. docker build -t="markoivanovsk1/webapp" .

46. docker build --no-cache -t="static_web" .

47. docker push static_web

48. docker build --no-cache -t="markoivanovsk1/static_web" .

49. docker push markoivanovsk1/static_web

50. Docker Hub

51. docker rmi markoivanovsk1/static_web

```
$ docker rmi markoivanovsk1/static_web
Untagged: markoivanovsk1/static_web:latest
Untagged: markoivanovsk1/static_web@sha256:643a94709d57e9fce6933eb6bfc24e38072101b0c48fd937838050c64f4eeaa1
```

52. docker rmi \`docker images -a -q\`

```
marko@Markos-Desktop MINGW64 /d/Projects/test/static_web
$ docker rmi `docker images -a -q`
Untagged: markoivanovsk1/apache3:latest
Deleted: sha256:cb243fd4b8c67fa54895ba044f49f7b15fbebc44bed8e4a7927d667dcbff2619
Untagged: jamtur01/static_web:v1
Deleted: sha256:7f8cb5da9469d6ccc04df456f3a65c023b0976a621581b11270d0d3f525d3c54
Untagged: markoivanovsk1/static_web:v1
Deleted: sha256:974cffe754bd70edc5ce64f2ed62a0eaf61ee3a4ab3d7df1697a37918c1d3188
Untagged: markoivanovsk1/apache2:latest
Deleted: sha256:9edf455cd847b375b9de5d75d3f779762a01132d883f44eb2200675183dff625
Untagged: fedora:20
Untagged: fedora@sha256:5d5a02b873d298da9bca4b84440c5cd698b0832560c850d92cf389cef58bc549
Deleted: sha256:ba74bddb630e4dc18b3c97241f7e7fc5fb4babfd0d79e10b73f5d85b52db46ae
Deleted: sha256:aca8e3909c1e86667827a2bb101be6fdb3c14ee450ab3bdcfc5efdbd9c277890
Untagged: fedora:21
Untagged: fedora@sha256:a268e5e12257c7770eb44c24041baf5e728fba2eed1a84f007b81845ded0a485
Deleted: sha256:ba6369d667d15c1f4f7d7aaa1bded5389e68eaafd57a86a4459a52b5b7457d9f
Deleted: sha256:e22123a887b7bde9324982b931f2c2d16a613bf55592ba82946c1439c542242d
Untagged: jamtur01/static_web:latest
Untagged: jamtur01/static_web@sha256:930e8316fd3aa2795fc7de06680ff0775738f039b5f8f33607bec4049d0e1623
Deleted: sha256:7c3b35d3160860d64115c37940bb338982015ac9caac6786b57fe5d3e03242e2
Deleted: sha256:59bd1e1725e2e36e0aeed1b4a5cac54c1f28623f1a0b4cdc591ec5498b673cec
Deleted: sha256:0b286a65c4f34276ce81ef21ca49b57215759b1dccb78b650af04c293d64b8fd
Deleted: sha256:d72d0199021776e77ac14a764a3decd156e9f6f18b37e25b867b0f1ca42fb3d9
Deleted: sha256:fb178c6cea1453d089ce033b96eba0efdb42274138e042517ea2d5ea7bb51665
Deleted: sha256:8945af30572845a904adce2aeaf73402c842d86e99e8f10688b25cb27834110b
Deleted: sha256:ea9f151abb7e06353e73172dad421235611d4f6d0560ec95db26e0dc240642c1
```

53. Delete од Docker Hub

markoivanovsk1 ▾   Search by repository name   All content ▾   Create a repository

Name	Last Pushed ↑	Contains	Visibility	Scout
markoivanovsk1/static_web ⌛ DELETING	13 minutes ago	IMAGE	Public	Inactive
markoivanovsk1/backend-hosting	about 2 months ago	IMAGE	Public	Inactive
markoivanovsk1/frontend-hosting	about 2 months ago	IMAGE	Public	Inactive

1–3 of 3   ‹   ›