

Unit-2

Task-02

Update the ubuntu container, install Apache and php, then push updated on to docker hub.

Compare the size of base image and updated image after commit.

```
Terminal
PS C:\Users\narut> docker tag ubuntu ashika0804/ab2:v1.0
PS C:\Users\narut> docker login
Authenticating with existing credentials... [Username: ashika0804]

Info → To login with a different account, run 'docker logout' followed by 'docker login'

Login Succeeded
PS C:\Users\narut> docker run -it --name ab2 ashika0804/ab2:v1.0
docker: 'docker run' requires at least 1 argument

Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

See 'docker run --help' for more information
PS C:\Users\narut> docker run -it --name ab2 ashika0804/ab2:v1.0
root@2f9e857d82c8:/# apt update
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:3 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [3106 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
```

```
Terminal
root@2f9e857d82c8:/# apt install -y php
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
adduser apache2 apache2-bin apache2-data apache2-utils ca-certificates krb5-locales libapache2-mod-php8.3 libaprutil1 libaprutil1-dbd-sqlite3
libaprutil1-ldap libaprutil1l libargon2-1 libbrotli1 libbsd0 libcurl4 libedit2 libexpat1 libgdbm-compat4 libgdbm6t64
libgssapi-krb5-2 libicu74 libjansson4 libkrb5crypto3 libkeyutils1 libkrb5-3 libkrb5support0 libldap-common libldap2 liblua5.4-0 libnghttp2-14
libperl5.38t64 libpsl5t64 librtmp1 libssl1.1 libtasl2-2 libtasl2-modules libtasl2-modules-db libsoodium23 libsqlite3-0 libssh-4 libssl3t64 libxml2
media-types netbase openssl perl perl-modules-5.38 php-common php8.3 php8.3-cli php8.3-common php8.3-opcache php8.3-readline psmisc
publicsuffix ssl-cert tzdata ucf
Suggested packages:
liblocale-gettext-perl cron quota cryptfs-utils apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser ufw php-pear
gdm-l10n krb5-doc krb5-user libtasl2-modules-gssapi-mit | libtasl2-modules-gssapi-heimdal libtasl2-modules-ldap libtasl2-modules-otp
libtasl2-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 libapache2-mod-php8.3 libaprutil1 libaprutil1-dbd-sqlite3
libaprutil1-ldap libaprutil1l libargon2-1 libbrotli1 libbsd0 libcurl4 libedit2 libexpat1 libgdbm-compat4 libgdbm6t64
libgssapi-krb5-2 libicu74 libjansson4 libkrb5crypto3 libkeyutils1 libkrb5-3 libkrb5support0 libldap-common libldap2 liblua5.4-0 libnghttp2-14
libperl5.38t64 libpsl5t64 librtmp1 libssl1.1 libtasl2-2 libtasl2-modules libtasl2-modules-db libsoodium23 libsqlite3-0 libssh-4 libxml2 media-types
```

```
Terminal
PS C:\Users\narut> docker commit ab2 ashika0804/ab2:v1.0
sha256:28e750845649466220cf8ab36b7706ebdeb6325283d0fb58012eb79aaa06992
PS C:\Users\narut> docker image
Usage: docker image COMMAND

IMAGE          ID             DISK USAGE   CONTENT SIZE  EXTRA
alpine:latest  25109184c71b  13.1MB      3.95MB     U
ashika0804/ab2:v1.0 28e750845649  476MB      148MB     U
ashika0804/api:v1 5c1c79cf906a  33.6MB      10.1MB     U
ashika0804/c1:v1.1 cd1dba651b30  119MB      31.7MB     U
docker/welcome-to-docker:latest c4d56c24da4f  22.2MB      6.03MB     U
httpd:latest    dd178595ed66  177MB      47.6MB     U
mysql:latest    6b18d01fb632  1.27GB      283MB     U
nginx:latest    c881927c4077  240MB      65.7MB     U
ubuntu:latest   cd1dba651b30  119MB      31.7MB     U
PS C:\Users\narut>
```

```
Terminal

PS C:\Users\narut> docker login
Authenticating with existing credentials... [Username: ashika0804]

Info → To login with a different account, run 'docker logout' followed by 'docker login'

Login Succeeded
PS C:\Users\narut> docker push ashika0804/ab2:v1.0
The push refers to repository [docker.io/ashika0804/ab2]
7105997aa9e7: Pushed
a3629ac5b9f4: Mounted from library/ubuntu
v1.0: digest: sha256:28c750845649466220cf8ab36b7706ebdeb6325283d0fb58012eb79aaa06992 size: 752
PS C:\Users\narut>
```

Step1: Run ubuntu container with given image name and tag

Step2: Authenticate

Step3: Get inside the container

Step4: Update and install the PHP and Apache image in the container

Step5: exit

Step6: commit

Step7: compare base image and updated image

Step8: Push the image to docker hub