3-building_images

```
assem@Assem:~/Projects/software-architecture$ sudo docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
Digest: sha256:0f71fa8d4d2d4292c3c617fda2b36f6dabe5c8b6e34c3dc5b0d17d4e704bd39c
Status: Image is up to date for ubuntu:16.04
docker.io/library/ubuntu:16.04
assem@Assem:~/Projects/software-architecture$ sudo docker images
REPOSITORY              TAG       IMAGE ID       CREATED          SIZE
invest-strategy_nginx   latest    62ce46220214   10 days ago      182MB
invest-strategy_php     latest    8441031ea07e   10 days ago      545MB
academy-backend_nginx   latest    4e0b289509a6   3 months ago     182MB
academy-backend_php     latest    5a19514df593   3 months ago     548MB
postgres                latest    e94a3bb61224   3 months ago     374MB
ubuntu                  16.04     b6f507652425   7 months ago     135MB
debian                  jessie    3aaeab7a4777   12 months ago    129MB
php                     7.2-fpm   28f52b60203d   15 months ago    398MB
nginx                   1.10      0346349a1a64   5 years ago      182MB
assem@Assem:~/Projects/software-architecture$ sudo touch Dockerfile
assem@Assem:~/Projects/software-architecture$ sudo nano ./Dockerfile
assem@Assem:~/Projects/software-architecture$ sudo nano ./Dockerfile
assem@Assem:~/Projects/software-architecture$ sudo nano ./Dockerfile
assem@Assem:~/Projects/software-architecture$ sudo docker build -t 'delner/ping' .
Sending build context to Docker daemon  4.446MB
Step 1/4 : FROM ubuntu:16.04
 ---> b6f507652425
Step 2/4 : LABEL author="Assem Tolen"
 ---> Running in 23d9596d365c
Removing intermediate container 23d9596d365c
 ---> 6efe663903e3
Step 3/4 : RUN apt-get update
 ---> Running in 89db51a741b3
Get:1 http://archive.ubuntu.com/ubuntu xenial InRelease [247 kB]
Get:2 http://security.ubuntu.com/ubuntu xenial-security InRelease [99.8 kB]
Get:3 http://archive.ubuntu.com/ubuntu xenial-updates InRelease [99.8 kB]
Get:4 http://security.ubuntu.com/ubuntu xenial-security/main amd64 Packages [2051 kB]
Get:5 http://archive.ubuntu.com/ubuntu xenial-backports InRelease [97.4 kB]
Get:6 http://archive.ubuntu.com/ubuntu xenial/main amd64 Packages [1558 kB]
Get:7 http://archive.ubuntu.com/ubuntu xenial/restricted amd64 Packages [14.1 kB]
Get:8 http://archive.ubuntu.com/ubuntu xenial/universe amd64 Packages [9827 kB]
Get:9 http://security.ubuntu.com/ubuntu xenial-security/restricted amd64 Packages [15.9 kB]
Get:10 http://security.ubuntu.com/ubuntu xenial-security/universe amd64 Packages [984 kB]
Get:11 http://security.ubuntu.com/ubuntu xenial-security/multiverse amd64 Packages [8820 B]
Get:12 http://archive.ubuntu.com/ubuntu xenial/multiverse amd64 Packages [176 kB]
Get:13 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 Packages [2560 kB]
Get:14 http://archive.ubuntu.com/ubuntu xenial-updates/restricted amd64 Packages [16.4 kB]
Get:15 http://archive.ubuntu.com/ubuntu xenial-updates/universe amd64 Packages [1544 kB]
Get:16 http://archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 Packages [26.2 kB]
Get:17 http://archive.ubuntu.com/ubuntu xenial-backports/main amd64 Packages [10.9 kB]
Get:18 http://archive.ubuntu.com/ubuntu xenial-backports/universe amd64 Packages [12.7 kB]
Fetched 19.3 MB in 1min 38s (197 kB/s)
Reading package lists...
Removing intermediate container 89db51a741b3
 ---> 07e3e74b9f79
Step 4/4 : RUN apt-get install -y iputils-ping
 ---> Running in fbcd30e9608e
Reading package lists...
Building dependency tree...
Reading state information...
The following additional packages will be installed:
  libffi6 libgmp10 libgnutls-openssl27 libgnutls30 libhogweed4 libidn11
  libnettle6 libp11-kit0 libtasn1-6
Suggested packages:
  gnutls-bin
The following NEW packages will be installed:
  iputils-ping libffi6 libgmp10 libgnutls-openssl27 libgnutls30 libhogweed4
  libidn11 libnettle6 libp11-kit0 libtasn1-6
0 upgraded, 10 newly installed, 0 to remove and 0 not upgraded.
Need to get 1307 kB of archives.
After this operation, 3785 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu xenial/main amd64 libgmp10 amd64 2:6.1.0+dfsg-2 [240 kB]
Get:2 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libnettle6 amd64 3.2-1ubuntu0.16.04.2 [93.7 kB]
Get:3 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libhogweed4 amd64 3.2-1ubuntu0.16.04.2 [136 kB]
Get:4 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libidn11 amd64 1.32-3ubuntu1.2 [46.5 kB]
Get:5 http://archive.ubuntu.com/ubuntu xenial/main amd64 libffi6 amd64 3.2.1-4 [17.8 kB]
```

```
Setting up libtasn1-6:amd64 (4.7-3ubuntu0.16.04.3) ...
Setting up libgnutls30:amd64 (3.4.10-4ubuntu1.9) ...
Setting up libgnutls-openssl27:amd64 (3.4.10-4ubuntu1.9) ...
Setting up iputils-ping (3:20121221-5ubuntu2) ...
Setcap is not installed, falling back to setuid
Processing triggers for libc-bin (2.23-0ubuntu11.3) ...
Removing intermediate container fbcd30e9608e
 ---> d151eb488da9
Successfully built d151eb488da9
Successfully tagged delner/ping:latest
assem@Assem:~/Projects/software-architecture$ sudo docker build -t 'delner/ping' .
Sending build context to Docker daemon  4.446MB
Step 1/4 : FROM ubuntu:16.04
 ---> b6f507652425
Step 2/4 : LABEL author="Assem Tolen"
 ---> Using cache
 ---> 6efe663903e3
Step 3/4 : RUN apt-get update
 ---> Using cache
 ---> 07e3e74b9f79
Step 4/4 : RUN apt-get install -y iputils-ping
 ---> Using cache
 ---> d151eb488da9
Successfully built d151eb488da9
Successfully tagged delner/ping:latest
assem@Assem:~/Projects/software-architecture$ sudo docker images
REPOSITORY              TAG       IMAGE ID       CREATED          SIZE
delner/ping             latest    d151eb488da9   About a minute ago   170MB
invest-strategy nginx   latest    62ce46220214   10 days ago      182MB
```