

Dockerfile

Для выполнения данной лабораторной работы я создала у себя на развернутом на Vscale сервере папку, в которой с помощью терминала создала Dockerfile.

```
root@for-pit-course:/# mkdir site2
root@for-pit-course:/# touch Dockerfile
root@for-pit-course:/# ls
Dockerfile  dev  lib  libx32  mnt  root  site  srv  usr
bin         etc  lib32  lost+found  opt  run  site2  sys  var
boot       home  lib64  media     proc  sbin  snap   tmp
root@for-pit-course:/# rm Dockerfile
root@for-pit-course:/# ls
bin  etc  lib32  lost+found  opt  run  site2  sys  var
boot  home  lib64  media      proc  sbin  snap   tmp
dev  lib  libx32  mnt      root  site  srv    usr
root@for-pit-course:/# cd site2
root@for-pit-course:/site2# touch Dockerfile

Command 'touch' not found, did you mean:

  command 'touch' from deb coreutils (8.30-3ubuntu2)

Try: apt install <deb name>

root@for-pit-course:/site2# touch Dockerfile
root@for-pit-course:/site2# ls
Dockerfile
```

Затем с помощью редактора nano отредактировала данный Dockerfile и вывела его содержимое в терминал.

```
root@for-pit-course:/demosite# nano Dockerfile
root@for-pit-course:/demosite# tail Dockerfile
# Version 0.1pre-alpha
FROM ubuntu
RUN apt-get update
RUN apt-get install -y nginx
RUN echo "Hello... It's me..." > /var/www/html/index.nginx-debian.html
EXPOSE 8080
```

После я запустила build Docker-файла.

```
root@for-pit-course:/demosite# docker build -t demosite .
Sending build context to Docker daemon 2.048kB
Step 1/5 : FROM ubuntu
--> 9873176a8ff5
Step 2/5 : RUN apt-get update
--> Using cache
--> 943be4447f4e
Step 3/5 : RUN apt-get install -y nginx
--> Using cache
--> 0966b09384f3
Step 4/5 : RUN echo "Hello... It's me..." > /var/www/html/index.nginx-debian.htm
l
--> Running in 91233cc761b0
Removing intermediate container 91233cc761b0
--> 844d6410daf3
Step 5/5 : EXPOSE 8080
--> Running in 584419f6544f
Removing intermediate container 584419f6544f
--> 7d2c2bb83418
Successfully built 7d2c2bb83418
Successfully tagged demosite:latest
root@for-pit-course:/demosite#
```

На скринке представлена довольно маленькая версия того, что было на самом деле, так как перед тем, как процесс билда завершился успешно, было несколько не успешных попыток из-за ошибок в Docker-файле.

Далее было опробовано два метода сборки Докера, однако ни одна из них не смогла запустить сервер.

```
root@for-pit-course:/demosite# docker build -t demosite .
Sending build context to Docker daemon 2.048kB
Step 1/5 : FROM ubuntu
----> 9873176a8ff5
Step 2/5 : RUN apt-get update
----> Using cache
----> 943be4447f4e
Step 3/5 : RUN apt-get install -y nginx
----> Using cache
----> 0966b09384f3
Step 4/5 : RUN echo "Hello... It's me..." > /var/www/html/index.nginx-debian.html
----> Running in 91233cc761b0
Removing intermediate container 91233cc761b0
----> 844d6410daf3
Step 5/5 : EXPOSE 8080
----> Running in 584419f6544f
Removing intermediate container 584419f6544f
----> 7d2c2bb83418
Successfully built 7d2c2bb83418
Successfully tagged demosite:latest
root@for-pit-course:/demosite# docker run -p 8080:8080 demosite
root@for-pit-course:/demosite# docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
root@for-pit-course:/demosite# docker run -p 8080:8080 -d demosite
bdca0cba6772e666ffd1db63bd2821202a953c9949b0ffe9d356b21ba240367e
root@for-pit-course:/demosite# docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
```

```
root@for-pit-course:/demosite# docker build -t demosite .
Sending build context to Docker daemon 2.048kB
Step 1/5 : FROM ubuntu
----> 9873176a8ff5
Step 2/5 : RUN apt-get update
----> Using cache
----> 943be4447f4e
Step 3/5 : RUN apt-get install -y nginx
----> Using cache
----> 0966b09384f3
Step 4/5 : RUN echo "Hello... It's me..." > /usr/share/nginx/html/index.html
----> Running in 8584194c4094
Removing intermediate container 8584194c4094
----> 4220b3393304
Step 5/5 : EXPOSE 8080
----> Running in 848a7025be78
Removing intermediate container 848a7025be78
----> 444d057ebfe8
Successfully built 444d057ebfe8
Successfully tagged demosite:latest
root@for-pit-course:/demosite# docker run -p 8080:8080 -d demosite
8742bb938bcc53b9b3445d8f9e9de02d2a0471e6a6a6f74d97b6195108e9b739
root@for-pit-course:/demosite# docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
root@for-pit-course:/demosite#
```

Далее я исправила докер файл, как было показано в видео.

```

GNU nano 4.8 Dockerfile
# Version 0.1pre-alpha
FROM ubuntu
RUN apt-get update
RUN apt-get install -y nginx
RUN echo "Hello... It's me..." > /var/www/html/index.nginx-debian.html

CMD ["nginx", "-g", "daemon off;"]

EXPOSE 8080

```

После исправления Docker-файла мы можем видеть, что сервер запущен:

```

root@for-pit-course:/demosite# docker build -t demosite .
Sending build context to Docker daemon 2.048kB
Step 1/6 : FROM ubuntu
----> 9873176a8ff5
Step 2/6 : RUN apt-get update
----> Using cache
----> 943be4447f4e
Step 3/6 : RUN apt-get install -y nginx
----> Using cache
----> 0966b09384f3
Step 4/6 : RUN echo "Hello... It's me..." > /var/www/html/index.nginx-debian.html
----> Using cache
----> 844d6410daf3
Step 5/6 : CMD ["nginx", "-g", "daemon off;"]
----> Running in 511c452ea894
Removing intermediate container 511c452ea894
----> 9e5dd8f455ec
Step 6/6 : EXPOSE 8080
----> Running in f459769f50da
Removing intermediate container f459769f50da
----> a2c842e29c5c
Successfully built a2c842e29c5c
Successfully tagged demosite:latest
root@for-pit-course:/demosite# docker run -p 8080:8080 -d demosite
b181beda159be7af4b1439b8fe7658ed8dddc3189d997450fdc92bcf0a273005
root@for-pit-course:/demosite# docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS
PORTS         NAMES
b181beda159b   demosite   "nginx -g 'daemon of..." 9 seconds ago  Up 8 seconds
0.0.0.0:8080->8080/tcp, :::8080->8080/tcp   admiring_maxwell
root@for-pit-course:/demosite#

```

Затем я зарегистрировалась на Docker Hub и подключилась через консоль к своему аккаунту.

```

root@for-pit-course:/demosite# docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: iam100
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
root@for-pit-course:/demosite#

```

И затем перебилдила свой докерфайл, чтобы сделать его с нужным тегом и запушила его в Docker Hub.

```
root@for-pit-course:/demosite# docker push iam100/demosite
Using default tag: latest
The push refers to repository [docker.io/iam100/demosite]
2b041480ad9a: Pushed
69ce5f896193: Pushed
e838a15849c5: Pushed
feef05f055c9: Pushed
latest: digest: sha256:456c67a41e7f63f56a38bc6d27188acad8a4900b381e28ed3d5412cc73a17eb3 size: 1160
root@for-pit-course:/demosite#
```

По следующей [ССЫЛКЕ](#) можно найти мой Docker Hub.