

Lab5

1) git clone

```
p0v4r@p0v4r:~/Desktop/projects/help_for_smaller$ git clone https://github.com/darkbenladan/docker-nginx-python2-db-redis-homework.git lab5
Cloning into 'lab5'...
remote: Enumerating objects: 46, done.
remote: Counting objects: 100% (46/46), done.
remote: Compressing objects: 100% (39/39), done.
remote: Total 46 (delta 5), reused 40 (delta 2), pack-reused 0
Unpacking objects: 100% (46/46), 32.70 KiB | 531.00 KiB/s, done.
```

2) nginx dockerfile добавлен из nginx:alpine

```
FROM nginx:alpine
COPY nginx.conf /etc/nginx/
ARG CHANGE_SOURCE=false
RUN if [ ${CHANGE_SOURCE} = true ]; then \
    # Change application source from dl-cdn.alpinelinux.org to aliyun source
    sed -i 's/dl-cdn.alpinelinux.org/mirrors.aliyun.com/' /etc/apk/repositories \
;fi
#Attach www-data user to an already existing group with -Gy
RUN apk update \
    && apk upgrade \
    && apk add --no-cache openssl \
    && apk add --no-cache bash

RUN if [ `grep -c www-data /etc/group` = 0 ]; then \
    adduser -D -H -u 1000 -s /bin/bash www-data; \
else \
    adduser -D -H -u 1000 -s /bin/bash www-data -G www-data; \
fi

ADD ./startup.sh /opt/startup.sh
RUN sed -i 's/\r//g' /opt/startup.sh
CMD ["/bin/bash", "/opt/startup.sh"]
EXPOSE 80 443
```

3) Редис dockerfile измене
ние

```
1 FROM #REDIS
2 RUN mkdir -p /etc/redis
3 COPY redis.conf /etc/redis/redis.conf
4 VOLUME /data
5 CMD ["redis-server"]
6 #PORT
```

как было до

```

1 FROM redis:latest
2 RUN mkdir -p /etc/redis
3 COPY redis.conf /etc/redis/redis.conf
4 VOLUME /data
5 CMD ["redis-server"]
6 expose 6379|

```

новая версия

4) изменен web service Dockerfile

```

1 #FROM    Обратите внимание, что python:2.7-stretch более недоступен, используйте python:3.6
2 #USER
3 # uWSGI:
4 RUN pip install uwsgi
5 # Copy the base uWSGI ini file to enable default dynamic uwsgi process number
6 COPY ./uwsgi.ini /etc/uwsgi/
7 # Which uWSGI .ini file should be used, to make it customizable
8 ENV UWSGI_INI /etc/uwsgi/uwsgi.ini
9 # By default, run 2 processes
10 ENV UWSGI_CHEAPER 2
11 # By default, when on demand, run up to 16 processes
12 ENV UWSGI_PROCESSES 16
13 # CRON:
14 USER root
15 ARG INSTALL_CRON=false
16 RUN if [ ${INSTALL_CRON} = true ]; then \
17     apt-get update -yqq ; \
18     apt-get -y install cron \
19 ;fi

```

как было

```

69 COPY ./requirements.txt /opt/
70 RUN pip install -r /opt/requirements.txt
71 ARG WORK_DIR=/var/www
72 RUN usermod -u 1000 www-data
73 WORKDIR ${WORK_DIR}
74 CMD [ "uwsgi" ]
75 #PORT

```

```

1 FROM python:3.6
2 #USER
3 # uWSGI:
4 RUN pip install uwsgi
5 # Copy the base uWSGI ini file to enable default dynamic uwsgi process number
6 COPY ./uwsgi.ini /etc/uwsgi/
7 # Which uWSGI .ini file should be used, to make it customizable
8 ENV UWSGI_INI /etc/uwsgi/uwsgi.ini
9 # By default, run 2 processes
10 ENV UWSGI_CHEAPER 2
11 # By default, when on demand, run up to 16 processes
12 ENV UWSGI_PROCESSES 16
13 # CRON:
14 USER root
15 ARG INSTALL_CRON=false
16 RUN if [ ${INSTALL_CRON} = true ]; then \
17     apt-get update -yqq ; \
18     apt-get -y install cron \
19 ;fi

```

новая версия сверху если судить по заметкам в файле

а это если по заданию -

```

2 FROM python:2.7-stretch
3 #USER
4 # uWSGI:
5 RUN pip install uwsgi
6 # Copy the base uWSGI ini file to enable default dynamic uwsgi process number
7 COPY ./uwsgi.ini /etc/uwsgi/
8 # Which uWSGI .ini file should be used, to make it customizable
9 ENV UWSGI_INI /etc/uwsgi/uwsgi.ini
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12 # By default, when on demand, run up to 16 processes
13 ENV UWSGI_PROCESSES 16
14 # CRON:
15 USER root
16 ARG INSTALL_CRON=false
17 RUN if [ ${INSTALL_CRON} = true ]; then \
18     apt-get update -yqq ; \
19     apt-get -y install cron \
20 ;fi
21 "

```

этот кусок что там что там неизменный после корректировки

```

69 COPY ./requirements.txt /opt/
70 RUN pip install -r /opt/requirements.txt
71 ARG WORK_DIR=/var/www
72 RUN usermod -u 1000 www-data
73 WORKDIR ${WORK_DIR}
74 CMD [ "uwsgi" ]
75 EXPOSE 9000

```

5) Скриншот исправленного п2 из лабы находится в файле docker-compose.yml, можно сравнить с файлом, который на гите, чтобы увидеть разницу

ВНИМАНИЕ, ПРИШЛОСЬ ПОМЕНЯТЬ БАЗОВЫЕ ОБРАЗЫ В DOCKERFILE СЕРВИСОВ CONSUMERS И WEB С PYTHON:2.7-stretch НА PYTHON:3.6, ПОТОМУ ЧТО ИНАЧЕ НЕВОЗМОЖНА УСТАНОВКА ЗАВИСИМОСТИ "CRON". ВОТ ПРИМЕР ОШИБКИ:

```
Step 9/34 : RUN if [ ${INSTALL_CRON} = true ]; then      apt-get update -yqq ;      apt-get -y install cron ;fi
--> Running in 0e8f739772cc
W: The repository 'http://security.debian.org/debian-security stretch/updates Release' does not have a Release file.
W: The repository 'http://deb.debian.org/debian stretch Release' does not have a Release file.
W: The repository 'http://deb.debian.org/debian stretch-updates Release' does not have a Release file.
E: Failed to fetch http://security.debian.org/debian-security/dists/stretch/updates/main/binary-amd64/Packages 404 Not Found
E: Failed to fetch http://deb.debian.org/debian/dists/stretch/main/binary-amd64/Packages 404 Not Found
E: Failed to fetch http://deb.debian.org/debian/dists/stretch-updates/main/binary-amd64/Packages 404 Not Found
E: Some index files failed to download. They have been ignored, or old ones used instead.
Reading package lists...
Building dependency tree...
Reading state information...
E: Unable to locate package cron
ERROR: Service 'todo' failed to build: The command '/bin/sh -c if [ ${INSTALL_CRON} = true ]; then      apt-get update -yqq ;
;      apt-get -y install cron ;fi' returned a non-zero code: 100
```

По итогу поднимается 2 базы данных:

```
p0v4r@p0v4r:~/Desktop/projects/help_for_smaller/docker_msk/lab5$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
d5b9dda17c8f	lab5_nginx_todo	"/docker-entrypoint..."	About a minute ago	Exited (1) About a minute ago		lab5_nginx_todo_1
4f77e2e6a892	lab5_todo	"uwsgi"	About a minute ago	Exited (22) About a minute ago		lab5_todo_1
eda97785b35f	lab5_consumers	"/usr/bin/supervisor..."	About a minute ago	Exited (2) About a minute ago		lab5_consumers_1
6b6433e3a3b85	lab5_redis	"docker-entrypoint.s..."	About a minute ago	Up About a minute	0.0.0.0:6379->6379/tcp, :::6379->6379/tcp	lab5_redis_1
bd653c744e3e	lab5_db	"docker-entrypoint.s..."	About a minute ago	Up About a minute	0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp	lab5_db_1
6a3d4d9b4b1d	lab5_nginx_todo	"docker-entrypoint.s..."	About a minute ago	Exited (1) About a minute ago		lab5_nginx_todo_1

Остальные сервисы не встают из-за внутренней ошибки.