ИСР 1.1

Задача: провести инсталляцию программного обеспечения.

На основе материалов, опубликованных в примечаниях к заданию, инсталлировать необходимое ПО. В отчете поэтапно продемонстрировать процесс установки (в виде набора скриншотов) с ключевыми моментами установки.

Примечание 1: https://disk.yandex.ru/i/bHPfXyufLTK0og

Выполнение:

1.   Создаём директорию grav-dock, помещаем в неё Dockerfile, docker-compose.yml, grav. Содержимое Dockerfile и docker-compose.yml берём из https://github.com/getgrav/docker-grav
Dockerfile:

```
FROM php:8.3-apache-bullseye
LABEL maintainer="Andy Miller <rhuk@getgrav.org> (@rhukster)"

# Enable Apache Rewrite + Expires Module
RUN a2enmod rewrite expires && \
    sed -i 's/ServerTokens OS/ServerTokens ProductOnly/g' \
    /etc/apache2/conf-available/security.conf

# Install dependencies
RUN apt-get update && apt-get install -y --no-install-recommends \
    unzip \
    libfreetype6-dev \
    libjpeg62-turbo-dev \
    libpng-dev \
    libyaml-dev \
    libzip4 \
    libzip-dev \
    zlib1g-dev \
    libicu-dev \
    g++ \
    git \
    cron \
    vim \
    && docker-php-ext-install opcache \
    && docker-php-ext-configure intl \
    && docker-php-ext-install intl \
    && docker-php-ext-configure gd --with-freetype --with-jpeg \
    && docker-php-ext-install -j$(nproc) gd \
    && docker-php-ext-install zip \
```

```
    && rm -rf /var/lib/apt/lists/*

# set recommended PHP.ini settings
# see https://secure.php.net/manual/en/opcache.installation.php
RUN { \
    echo 'opcache.memory_consumption=128'; \
    echo 'opcache.interned_strings_buffer=8'; \
    echo 'opcache.max_accelerated_files=4000'; \
    echo 'opcache.revalidate_freq=2'; \
    echo 'opcache.fast_shutdown=1'; \
    echo 'opcache.enable_cli=1'; \
    echo 'upload_max_filesize=128M'; \
    echo 'post_max_size=128M'; \
    echo 'expose_php=off'; \
    } > /usr/local/etc/php/conf.d/php-recommended.ini

RUN pecl install apcu \
    && pecl install yaml-2.2.4 \
    && docker-php-ext-enable apcu yaml

# Set user to www-data
RUN chown www-data:www-data /var/www
USER www-data

# Define Grav specific version of Grav or use latest stable
ARG GRAV_VERSION=latest

# Install grav
WORKDIR /var/www
RUN curl -o grav-admin.zip -SL https://getgrav.org/download/core/grav-
admin/${GRAV_VERSION} && \
    unzip grav-admin.zip && \
    mv -T /var/www/grav-admin /var/www/html && \
    rm grav-admin.zip

# Create cron job for Grav maintenance scripts
RUN (crontab -l; echo "* * * * * cd /var/www/html;/usr/local/bin/php bin/grav
scheduler 1>> /dev/null 2>&1") | crontab -

# Return to root user
USER root

# Copy init scripts
# COPY docker-entrypoint.sh /entrypoint.sh

# provide container inside image for data persistence
VOLUME ["/var/www/html"]
```

```
# ENTRYPOINT ["/entrypoint.sh"]
# CMD ["apache2-foreground"]
CMD ["sh", "-c", "cron && apache2-foreground"]
```

docker-compose.yml:

```yaml
volumes:
  grav-data:
    driver: local
    driver_opts:
      type: none
      device: ./grav
      o: bind

services:
  grav:
    build: ./
    ports:
      - 8080:80
    volumes:
      - grav-data:/var/www/html
```

Grav скачиваем с официального сайта https://learn.getgrav.org/17/basics/installation

Option 1: Install from ZIP package

The easiest way to install Grav is to download the ZIP package and extract it:

1. Download the latest-and-greatest **Grav** or **Grav + Admin** package.
2. Extract the ZIP file in the webroot of your web server, e.g. `~/webroot/grav`

> There are Skeleton-packages available, which include the core Grav system, sample pages, plugins, and configuration. They are a great way to get started; all you have to do is download the Skeleton-package you prefer, and follow the steps above.

You can also download any pre-packaged installation of a tagged release from getgrav.org. Use the format `https://getgrav.org/download/TYPE/PACKAGE/VERSION`.

- getgrav.org/download/core/grav/1.7.0 downloads Grav Core v1.7.0
- getgrav.org/download/core/grav/1.7.0-rc.10?testing=true downloads Grav Core v1.7.0-rc.10, a testing release
- getgrav.org/download/core/grav-admin/1.7.0 downloads Grav Core with the Admin plugin, at Core v1.7.0
- getgrav.org/download/core/grav-admin/1.7.0-rc.10?testing=true downloads Grav Core v1.7.0-rc.10 with the Admin plugin, a testing release
- getgrav.org/download/core/grav-update/1.7.0 downloads the update package for Grav Core
- getgrav.org/download/plugins/flex-objects-json/0.1.0 downloads the Flex Objects JSON plugin at v0.1.0
- getgrav.org/download/themes/quark/2.0.3 downloads the Quark theme at v2.0.3

В итоге получаем следующую директорию:

```
C:\Users\gnevn\OneDrive\
docker-compose.yml
Dockerfile
grav
```
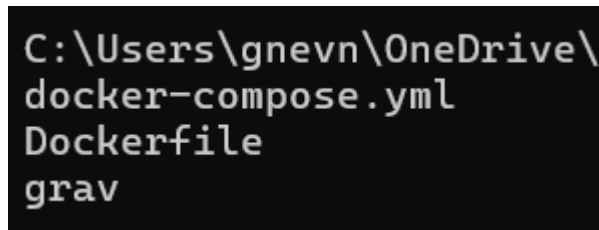
2. Запускаем в командной строке команду docker-compose up

```
C:\Users\gnevn\OneDrive\Рабочий стол\учеба\РГПУ\Практика 3 курс\ИСР 1.1\grav-dock>docker-compose down
[+] Running 1/1
 ✔ Network grav-dock_default   Removed                                                                    0.8s

C:\Users\gnevn\OneDrive\Рабочий стол\учеба\РГПУ\Практика 3 курс\ИСР 1.1\grav-dock>docker-compose up
[+] Building 3.3s (15/15) FINISHED                                                          docker:desktop-linux
 => [grav internal] load build definition from Dockerfile                                                 0.0s
 => => transferring dockerfile: 2.44kB                                                                    0.0s
 => [grav internal] load metadata for docker.io/library/php:8.3-apache-bullseye                           1.1s
 => [grav auth] library/php:pull token for registry-1.docker.io                                           0.0s
 => [grav internal] load .dockerignore                                                                    0.0s
 => => transferring context: 2B                                                                           0.0s
 => [grav 1/9] FROM docker.io/library/php:8.3-apache-bullseye@sha256:6415657dc5b12c6da256716eeeff9e5ac3a373d37def  0.0s
 => => resolve docker.io/library/php:8.3-apache-bullseye@sha256:6415657dc5b12c6da256716eeeff9e5ac3a373d37def57ccd  0.0s
 => CACHED [grav 2/9] RUN a2enmod rewrite expires &&      sed -i 's/ServerTokens OS/ServerTokens ProductOnly/g'  0.0s
 => CACHED [grav 3/9] RUN apt-get update && apt-get install -y --no-install-recommends      unzip     libfreetype6  0.0s
 => CACHED [grav 4/9] RUN {     echo 'opcache.memory_consumption=128';     echo 'opcache.interned_strings_buffer=  0.0s
 => CACHED [grav 5/9] RUN pecl install apcu      && pecl install yaml-2.2.4     && docker-php-ext-enable apcu yaml  0.0s
 => CACHED [grav 6/9] RUN chown www-data:www-data /var/www                                                0.0s
 => CACHED [grav 7/9] WORKDIR /var/www                                                                    0.0s
 => CACHED [grav 8/9] RUN curl -o grav-admin.zip -SL https://getgrav.org/download/core/grav-admin/latest &&     u  0.0s
 => CACHED [grav 9/9] RUN (crontab -l; echo "* * * * * cd /var/www/html;/usr/local/bin/php bin/grav scheduler 1>>  0.0s
 => [grav] exporting to image                                                                             2.1s
 => => exporting layers                                                                                   0.0s
 => => exporting manifest sha256:47dba73372927f938a78d2807bb4454f6c7f4e72c652d6b4eea83ae4473d511e         0.0s
 => => exporting config sha256:cf4e5261220427384e96a8e70df58e6eeb2d3d23656b9441e43284a899b10f2f           0.0s
 => => exporting attestation manifest sha256:e366918c478ef4f737ebe843fadb9742105ad6109260d9fb35a0df6626ac675a  0.0s
 => => exporting manifest list sha256:dbbb81be470dcae1074f1501df478eafeb79341b48f60877b667a9af73283a71    0.0s
 => => naming to docker.io/library/grav-dock-grav:latest                                                  0.0s
 => => unpacking to docker.io/library/grav-dock-grav:latest                                               2.0s
 => [grav] resolving provenance for metadata file                                                         0.0s
[+] Running 4/4
 ✔ grav                          Built                                                                    0.0s
 ✔ Network grav-dock_default     Created                                                                  0.3s
 ✔ Volume "grav-dock_grav-data"  Created                                                                  0.0s
 ✔ Container grav-dock-grav-1    Created                                                                  0.3s
Attaching to grav-1
```

3. Заходим на localhost:8080, создаём администратора:

4. Интерфейс Grav, глазами администратора: