```
user@ubuntu:~$ sudo docker ps -a
CONTAINER ID   IMAGE        COMMAND      CREATED       STATUS                    PORTS       NAMES
87fadba672c5   d84d6b4e229a "bash"       3 days ago    Exited (137) 47 hours ago             my_ubuntu
user@ubuntu:~$ sudo docker images
REPOSITORY     TAG        IMAGE ID       CREATED     SIZE
my_ubuntu      0.2        d84d6b4e229a   3 days ago  528MB
ubuntu         latest     54c9d81cbb44   2 weeks ago 72.8MB
user@ubuntu:~$ sudo docker run --name my_ubuntu_php -it -d -p 8080:80 -p 8022:22 -p 3000:3000 my_ubuntu
Unable to find image 'my_ubuntu:latest' locally
docker: Error response from daemon: pull access denied for my_ubuntu, repository does not exist or may require 'docker login': denied: requested access to the resource
is denied.
See 'docker run --help'.
user@ubuntu:~$ sudo docker run --name my_ubuntu_php -it -d -p 8080:80 -p 8022:22 -p 3000:3000 d84d6b4e229a
d295c50f95de65090ab8720f07bc7b952095ab14af2d72978f1a1bfdf78371ed
user@ubuntu:~$ sudo docker ps -a
CONTAINER ID   IMAGE        COMMAND      CREATED       STATUS                    PORTS
                                                       NAMES
d295c50f95de   d84d6b4e229a "bash"       12 seconds ago Up 9 seconds             21/tcp, 3306/tcp, 0.0.0.0:3000->3000/tcp, :::3000->3000/tcp, 0.0.0.0:8022->22/tcp,
:::8022->22/tcp, 0.0.0.0:8080->80/tcp, :::8080->80/tcp  my_ubuntu_php
87fadba672c5   d84d6b4e229a "bash"       3 days ago    Exited (137) 47 hours ago
                                                       my_ubuntu
user@ubuntu:~$ sudo docker exec -it my_ubuntu_php bash
root@d295c50f95de:/#
```
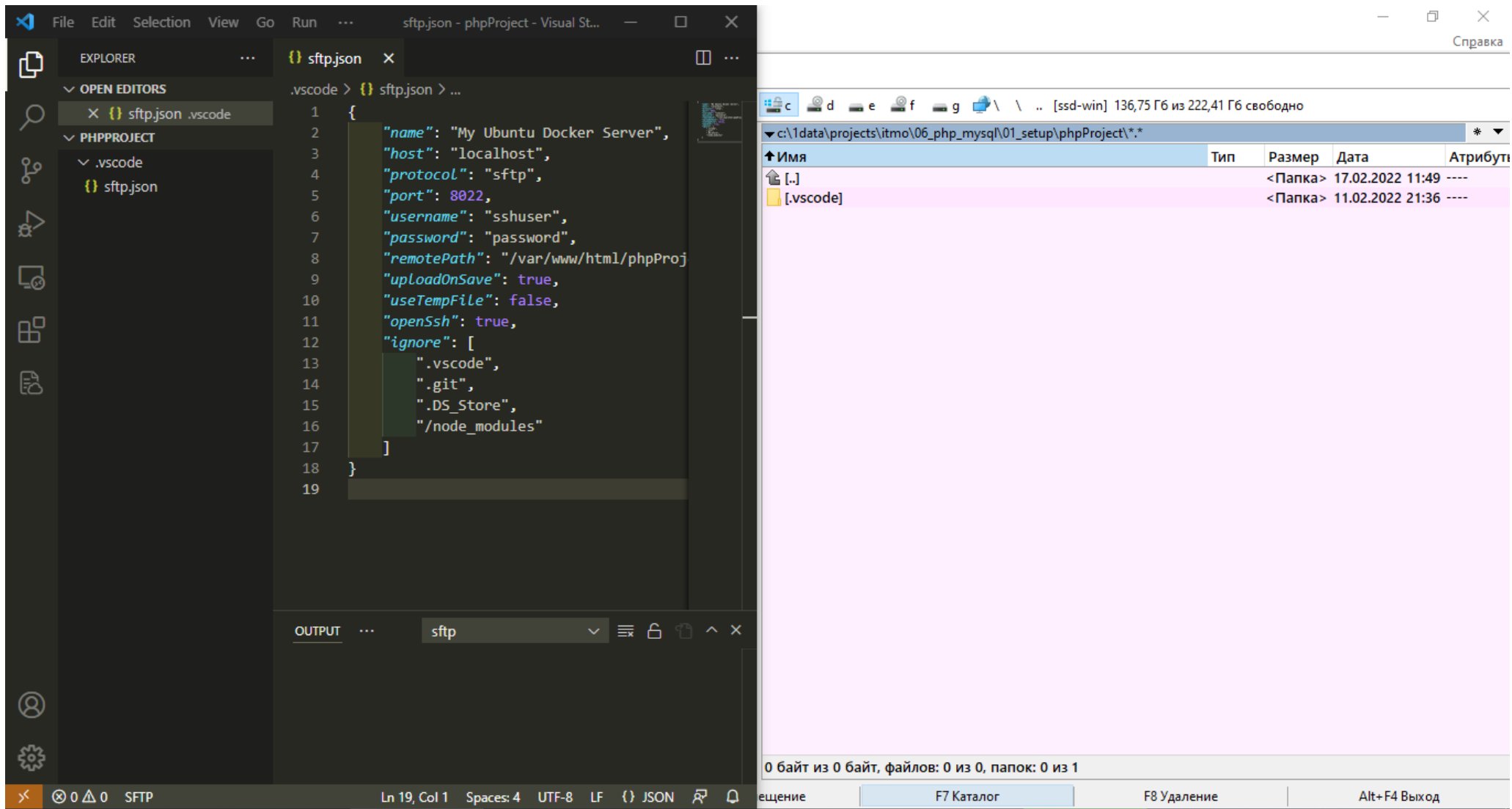
На установленной в Virtual Box операционной системе Ubuntu Server 21.10 запущен докер-контейнер для выполнения самостоятельной работы № 1. Доступ осуществляется удаленно с помощью программы Putty через SSH

```
root@d295c50f95de:/# service apache2 start
 * Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this mess
age
 *
root@d295c50f95de:/# service ssh start
 * Starting OpenBSD Secure Shell server sshd                              [ OK ]
root@d295c50f95de:/# service apache2 status
 * apache2 is running
root@d295c50f95de:/# service ssh status
 * sshd is running
root@d295c50f95de:/#
```
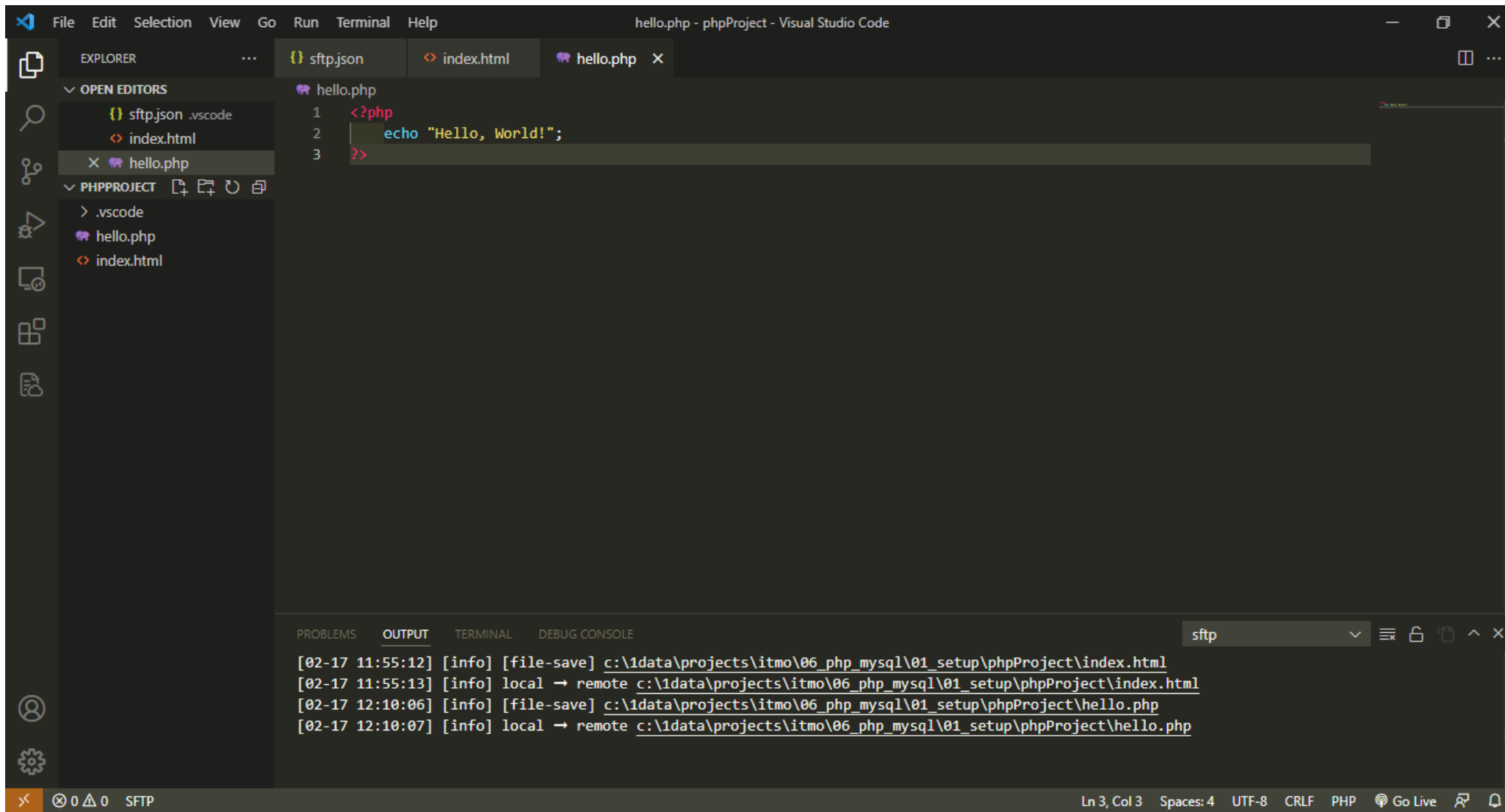
Запуск сервера Apache и SSH в контейнере

File   Edit   Selection   View   Go   Run   ···   sftp.json - phpProject - Visual St...

Справка

EXPLORER   {} sftp.json ×

OPEN EDITORS   .vscode > {} sftp.json > ...

  × {} sftp.json .vscode

PHPPROJECT

  ∨ .vscode

    {} sftp.json

```json
{
    "name": "My Ubuntu Docker Server",
    "host": "localhost",
    "protocol": "sftp",
    "port": 8022,
    "username": "sshuser",
    "password": "password",
    "remotePath": "/var/www/html/phpProj
    "uploadOnSave": true,
    "useTempFile": false,
    "openSsh": true,
    "ignore": [
        ".vscode",
        ".git",
        ".DS_Store",
        "/node_modules"
    ]
}
```

c   d   e   f   g   \   \   .. [ssd-win] 136,75 Гб из 222,41 Гб свободно

▼ c:\1data\projects\itmo\06_php_mysql\01_setup\phpProject*.*   * ▼

↑Имя	Тип	Размер	Дата	Атрибут
[..]		<Папка>	17.02.2022 11:49	----
[.vscode]		<Папка>	11.02.2022 21:36	----

OUTPUT ···   sftp

0 байт из 0 байт, файлов: 0 из 0, папок: 0 из 1

⊗ 0 ⚠ 0   SFTP   Ln 19, Col 1   Spaces: 4   UTF-8   LF   {} JSON

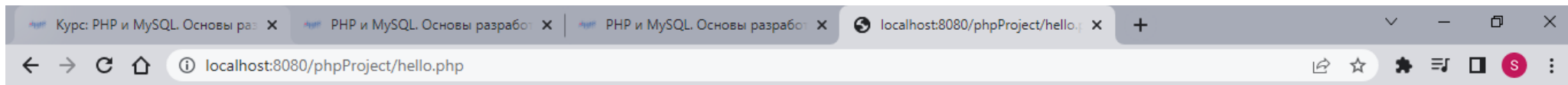ещение   F7 Каталог   F8 Удаление   Alt+F4 Выход

Создание локальной директории phpProject и настройка синхронизации с удаленной директорией на виртуальной машине по SFTP

```
root@d295c50f95de: /var/www/html/phpProject                                                    —    □    ✕

root@d295c50f95de:/var/www/html/phpProject# apt-get install php php-curl php-gd php-xml php-soap php-intl php-mysql libapache2-mod-php -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  fontconfig-config fonts-dejavu-core libapache2-mod-php7.4 libfontconfig1 libfreetype6 libgd3 libjbig0 libjpeg-turbo8 libjpeg8 libpng16-16 libsodium23 libtiff5
  libwebp6 libxpm4 libxslt1.1 php-common php7.4 php7.4-cli php7.4-common php7.4-curl php7.4-gd php7.4-intl php7.4-json php7.4-mysql php7.4-opcache php7.4-readline
  php7.4-soap php7.4-xml psmisc
Suggested packages:
  php-pear libgd-tools
The following NEW packages will be installed:
  fontconfig-config fonts-dejavu-core libapache2-mod-php libapache2-mod-php7.4 libfontconfig1 libfreetype6 libgd3 libjbig0 libjpeg-turbo8 libjpeg8 libpng16-16
  libsodium23 libtiff5 libwebp6 libxpm4 libxslt1.1 php php-common php-curl php-gd php-intl php-mysql php-soap php-xml php7.4 php7.4-cli php7.4-common php7.4-curl
  php7.4-gd php7.4-intl php7.4-json php7.4-mysql php7.4-opcache php7.4-readline php7.4-soap php7.4-xml psmisc
0 upgraded, 37 newly installed, 0 to remove and 0 not upgraded.
Need to get 7257 kB of archives.
After this operation, 28.3 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu focal/main amd64 libsodium23 amd64 1.0.18-1 [150 kB]
Get:2 http://archive.ubuntu.com/ubuntu focal/main amd64 libpng16-16 amd64 1.6.37-2 [179 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal/main amd64 psmisc amd64 23.3-1 [53.3 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal/main amd64 fonts-dejavu-core all 2.37-1 [1041 kB]
Get:5 http://archive.ubuntu.com/ubuntu focal/main amd64 fontconfig-config all 2.13.1-2ubuntu3 [28.8 kB]
Get:6 http://archive.ubuntu.com/ubuntu focal/main amd64 php-common all 2:75 [11.9 kB]
Get:7 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4-common amd64 7.4.3-4ubuntu2.8 [981 kB]
Get:8 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4-json amd64 7.4.3-4ubuntu2.8 [19.2 kB]
Get:9 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4-opcache amd64 7.4.3-4ubuntu2.8 [198 kB]
Get:10 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4-readline amd64 7.4.3-4ubuntu2.8 [12.6 kB]
Get:11 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4-cli amd64 7.4.3-4ubuntu2.8 [1421 kB]
Get:12 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libapache2-mod-php7.4 amd64 7.4.3-4ubuntu2.8 [1364 kB]
Get:13 http://archive.ubuntu.com/ubuntu focal/main amd64 libapache2-mod-php all 2:7.4+75 [2836 B]
Get:14 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libfreetype6 amd64 2.10.1-2ubuntu0.1 [341 kB]
Get:15 http://archive.ubuntu.com/ubuntu focal/main amd64 libfontconfig1 amd64 2.13.1-2ubuntu3 [114 kB]
Get:16 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libjpeg-turbo8 amd64 2.0.3-0ubuntu1.20.04.1 [117 kB]
Get:17 http://archive.ubuntu.com/ubuntu focal/main amd64 libjpeg8 amd64 8c-2ubuntu8 [2194 B]
Get:18 http://archive.ubuntu.com/ubuntu focal/main amd64 libjbig0 amd64 2.1-3.1build1 [26.7 kB]
Get:19 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libwebp6 amd64 0.6.1-2ubuntu0.20.04.1 [185 kB]
Get:20 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libtiff5 amd64 4.1.0+git191117-2ubuntu0.20.04.2 [162 kB]
Get:21 http://archive.ubuntu.com/ubuntu focal/main amd64 libxpm4 amd64 1:3.5.12-1 [34.0 kB]
Get:22 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libgd3 amd64 2.2.5-5.2ubuntu2.1 [118 kB]
Get:23 http://archive.ubuntu.com/ubuntu focal/main amd64 libxslt1.1 amd64 1.1.34-4 [152 kB]
Get:24 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4 all 7.4.3-4ubuntu2.8 [9236 B]
Get:25 http://archive.ubuntu.com/ubuntu focal/main amd64 php all 2:7.4+75 [2712 B]
Get:26 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4-curl amd64 7.4.3-4ubuntu2.8 [31.0 kB]
Get:27 http://archive.ubuntu.com/ubuntu focal/main amd64 php-curl all 2:7.4+75 [2000 B]
```

Выполнены команды apt-get install php … - установлены пакеты для работы с языком программирования PHP на сервере Apache

Создание файла hello.php с соответствующим содержимым и синхронизация с удаленным сервером

Результат работы кода hello.php обрабатывается сервером и выводится в браузере по адресу http://localhost:8080/phpProject/hello.php