

Задание:

- 1\* Установить Nginx и настроить его на работу с PHP-FPM.
  - 2\* Установить Apache. Настроить обработку PHP. Добиться одновременной работы с Nginx.
  - 3\* Настроить схему обратного прокси для Nginx (динамика - на Apache).
  - 4\* Установить MySQL. Создать новую базу данных и таблицу в ней.
  - 5\* \* Установить пакет phpmuadmin и запустить его веб-интерфейс для управления MySQL.
  - 6\* \* Настроить схему балансировки трафика между несколькими серверами Apache на стороне Nginx с помощью модуля ngx\_http\_upstream\_module.
- \*

1.

```
sudo apt install nginx
```

```
sudo apt install apache2
```

```
sudo apt install libapache2-mod-php8.1 php8.1 php8.1-fpm
```

```
cd /etc/nginx
```

```
cd sites-enabled
```

```
sudo nano default
```

```
server {
    listen 80 default_server;
    listen [::]:80 default_server;

    # Add index.php to the list if you are using PHP
    index index.html index.htm index.nginx-debian.html;

    server_name _;

    root /var/www/html;

    #location / {
        # First attempt to serve request as file, then
        # as directory, then fall back to displaying a 404.
        try_files $uri $uri/ =404;
    #}
    #location / {
        #      proxy_pass http://localhost:8080;
        #      proxy_set_header Host $host;
        #      proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        #      proxy_set_header X-Real-IP $remote_addr;
    #}
    location ~* \.(jpg|jpeg|gif|png|ico|css|zip|pdf|txt|tar|js)$ <
        root /var/www/html;
    }

    # pass PHP scripts to FastCGI server
    #
    location ~ \.php$ {
        include snippets/fastcgi-php.conf;

        #
        # With php-fpm (or other unix sockets):
        fastcgi_pass unix:/run/php/php8.1-fpm.sock;
        #
        # With php-cgi (or other tcp sockets):
        fastcgi_pass 127.0.0.1:9000;
    }
}
```

2+3

/etc/apache2

sudo nano ports.conf

Listen 8080

cd sites-enabled

sudo nano 000-default.conf

<VirtualHost \*:8080>

systemctl start apache2

cd /var/www/html

sudo su

cat > info.php

cd /etc/nginx

cd sites-enabled

sudo nano default

```
# Default server configuration
#
server {
    listen 80 default_server;
    listen [::]:80 default_server;

    # Add index.php to the list if you are using PHP
    index index.html index.htm index.nginx-debian.html;

    server_name _;

    #location / {
        # First attempt to serve request as file, then
        # as directory, then fall back to displaying a 404.
        # try_files $uri $uri/ =404;
    #}
    location / {
        proxy_pass http://localhost:8080;
        proxy_set_header Host $host;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Real-IP $remote_addr;
    }
    location ~* \.(jpg|jpeg|gif|png|ico|css|zip|pdf|txt|tar|js)$ {
        root /var/www/html;
    }
}
```

sudo nginx -t

systemctl reload nginx

4.

```
sudo apt install mysql-server
```

```
sudo mysql -u root -p
```

```
USE mysql;
```

```
CREATE DATABASE gb;
```

```
USE gb;
```

```
CREATE TABLE test_table(number int);
```

```
INSERT INTO test_table VALUES (42), (32), (12), (53);
```

```
SELECT * FROM test_table;
```