

## • Установить Nginx и настроить его на работу с PHP-FPM.

### Команда:

```
root@andrey-VirtualBox:/etc/nginx# apt install nginx
```

### Результат:

```
root@andrey-VirtualBox:/etc/nginx# curl localhost
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
    body {
        width: 35em;
        margin: 0 auto;
        font-family: Tahoma, Verdana, Arial, sans-serif;
    }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed
and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>
root@andrey-VirtualBox:/etc/nginx#
```

### Команда:

```
root@andrey-VirtualBox:/etc/nginx# apt install php8.1-fpm
```

```
root@andrey-VirtualBox:/etc/nginx# ps afx
```

### Результат:

```
28394 ?          S        0:00  \_ php-fpm: pool www
28395 ?          S        0:00  \_ php-fpm: pool www
```

### Команда:

```
root@andrey-VirtualBox:/etc/nginx/sites-enabled# nano default
```

### Результат:

```
location ~ /\.php$ {
    include snippets/fastcgi-php.conf;
    root /var/www/html;

    #    # 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;
}
```

## • Установить Apache. Настроить обработку PHP. Добиться одновременной работы с Nginx.

### Команда:

```
root@andrey-VirtualBox:/etc/nginx/sites-enabled# apt install apache2
root@andrey-VirtualBox:/etc/nginx/sites-enabled# apachectl -t
```

### Результат:

```
AH00558: apache2: Could not reliably determine the server's fully
qualified domain name, using 127.0.1.1. Set the 'ServerName' directive
globally to suppress this message
Syntax OK
```

### Команда:

```
root@andrey-VirtualBox:/etc/apache2# nano ports.conf
```

### Результат:

```
Listen 8081
```

```
<IfModule ssl_module>
    Listen 443
</IfModule>
```

```
<IfModule mod_gnutls.c>
    Listen 443
</IfModule>
```

```
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

### Команда:

```
root@andrey-VirtualBox:/etc/apache2# systemctl start apache2
root@andrey-VirtualBox:/etc/apache2# systemctl status apache2
```

### Результат:

```
● apache2.service – The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor
   preset: enabled)
   Active: active (running) since Mon 2023-11-06 12:08:14 MSK; 4min 17s
   ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 30407 ExecStart=/usr/sbin/apachectl start (code=exited,
   status=0/SUCCESS)
   Main PID: 30411 (apache2)
     Tasks: 55 (limit: 2262)
    Memory: 4.9M
       CPU: 84ms
    CGroup: /system.slice/apache2.service
            └─30411 /usr/sbin/apache2 -k start
              └─30412 /usr/sbin/apache2 -k start
                └─30413 /usr/sbin/apache2 -k start
```

### Команда:

```
root@andrey-VirtualBox:/etc/nginx/sites-enabled# apt install php8.1
libapache2-mod-php8.1
```

### **Результат:**

Enabling module mpm\_prefork.  
apache2\_switch\_mpm Switch to prefork  
apache2\_invoke: Enable module php8.1

### **• Настроить схему обратного прокси для Nginx (динамика - на Apache).**

#### **Команда:**

```
root@andrey-VirtualBox:/etc/nginx/sites-enabled# nano default
```

### **Результат:**

```
server {  
    listen 80 default_server;  
    listen [::]:80 default_server;  
  
    # SSL configuration  
    #  
    # listen 443 ssl default_server;  
    # listen [::]:443 ssl default_server;  
    #  
    # Note: You should disable gzip for SSL traffic.  
    # See: https://bugs.debian.org/773332  
    #  
    # Read up on ssl_ciphers to ensure a secure configuration.  
    # See: https://bugs.debian.org/765782  
    #  
    # Self signed certs generated by the ssl-cert package  
    # Don't use them in a production server!  
    #  
    # include snippets/snakeoil.conf;  
  
    root /var/www/html;  
  
    # Add index.php to the list if you are using PHP  
    index index.html index.htm index.nginx-debian.html;  
  
    server_name _;  
  
    location / {  
        proxy_pass http://localhost:8081;  
        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;  
    }  
}
```

### **• Установить MySQL. Создать новую базу данных и таблицу в ней.**

**Команда:**

```
root@andrey-VirtualBox:/etc/nginx/sites-enabled# apt install mysql-server-8.0
```

```
root@andrey-VirtualBox:/etc/nginx/sites-enabled# ss -ntlp
```

**Результат:**

```
LISTEN          0                151              0.0.0.0:*
127.0.0.1:3306
users:(("mysqld",pid=32646,fd=33))
LISTEN          0                70              0.0.0.0:*
127.0.0.1:33060
users:(("mysqld",pid=32646,fd=31))
```

```
mysql> create database gb;
```

```
Query OK, 1 row affected (0,02 sec)
```

```
mysql> create table test(i int);
```

```
Query OK, 0 rows affected (0,05 sec)
```