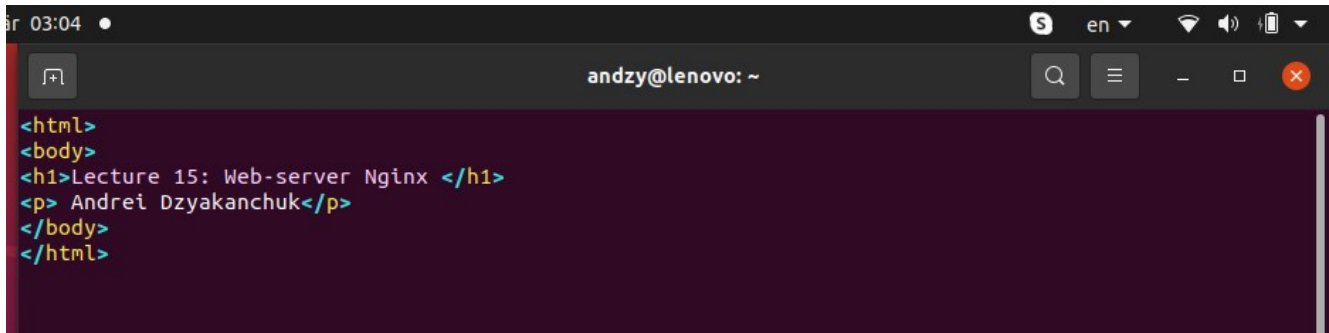


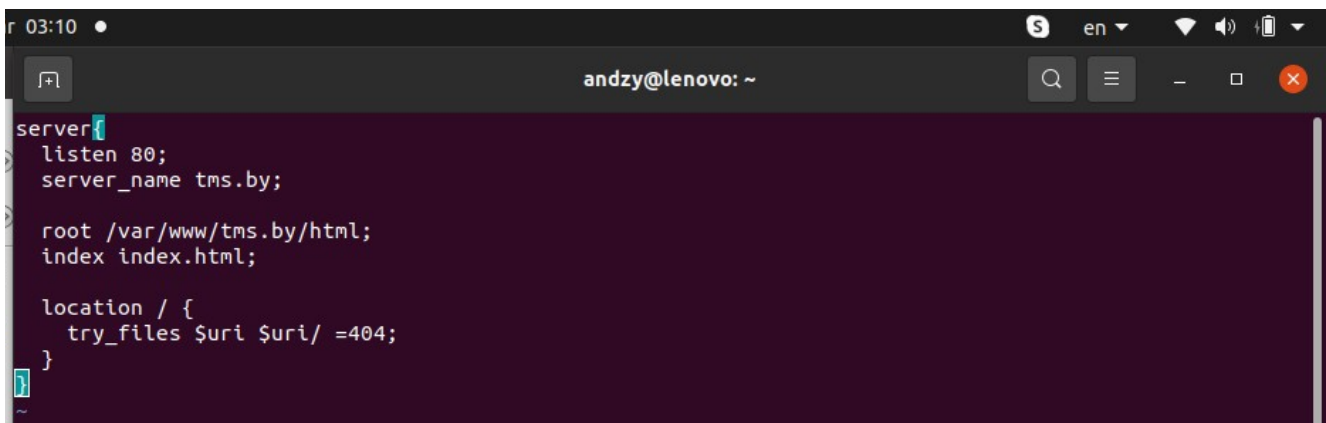
## Задание 1:

1. Создаем директорию `/var/www/tms.by/html`  
**`sudo mkdir -p /var/www/tms.by/html`**
2. Создаем HTML- файл и прописываем его содержимое  
**`sudo vim /var/www/tms.by/html/index.html`**



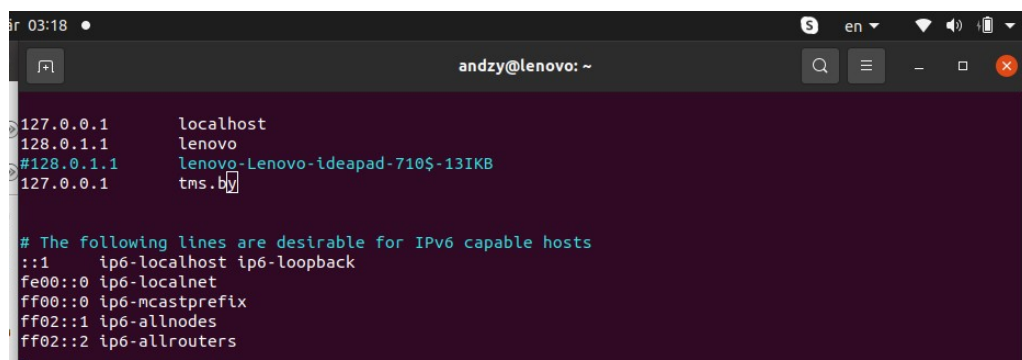
```
03:04 • andzy@lenovo: ~  
<html>  
<body>  
<h1>Lecture 15: Web-server Nginx </h1>  
<p> Andrei Dzyakanchuk</p>  
</body>  
</html>
```

3. Создаем конфигурационный файл  
**`sudo vim /etc/nginx/sites-available/tms.by`**



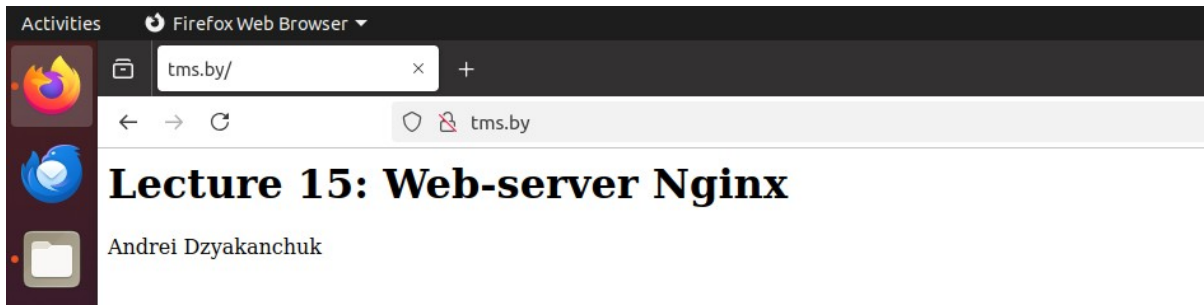
```
03:10 • andzy@lenovo: ~  
server {  
    listen 80;  
    server_name tms.by;  
  
    root /var/www/tms.by/html;  
    index index.html;  
  
    location / {  
        try_files $uri $uri/ =404;  
    }  
}
```

4. Активируем файл при создании символической ссылкой  
**`sudo ln -s /etc/nginx/sites-available/tms.by /etc/nginx/sites-enabled/`**
5. Проверяем Nginx на наличие ошибок  
**`sudo nginx -t`**
6. Перезагружаем Nginx  
**`sudo nginx -s reload`**
7. Настраиваем DNS для отображения страницы сайта при использовании доменного имени  
**`sudo vim /etc/hosts`**



```
03:18 • andzy@lenovo: ~  
127.0.0.1    localhost  
128.0.1.1    lenovo  
#128.0.1.1   lenovo-Lenovo-ideapad-710S-13IKB  
127.0.0.1    tms.by  
  
# The following lines are desirable for IPv6 capable hosts  
::1         ip6-localhost ip6-loopback  
fe00::0     ip6-localnet  
ff00::0     ip6-mcastprefix  
ff02::1     ip6-allnodes  
ff02::2     ip6-allrouters
```

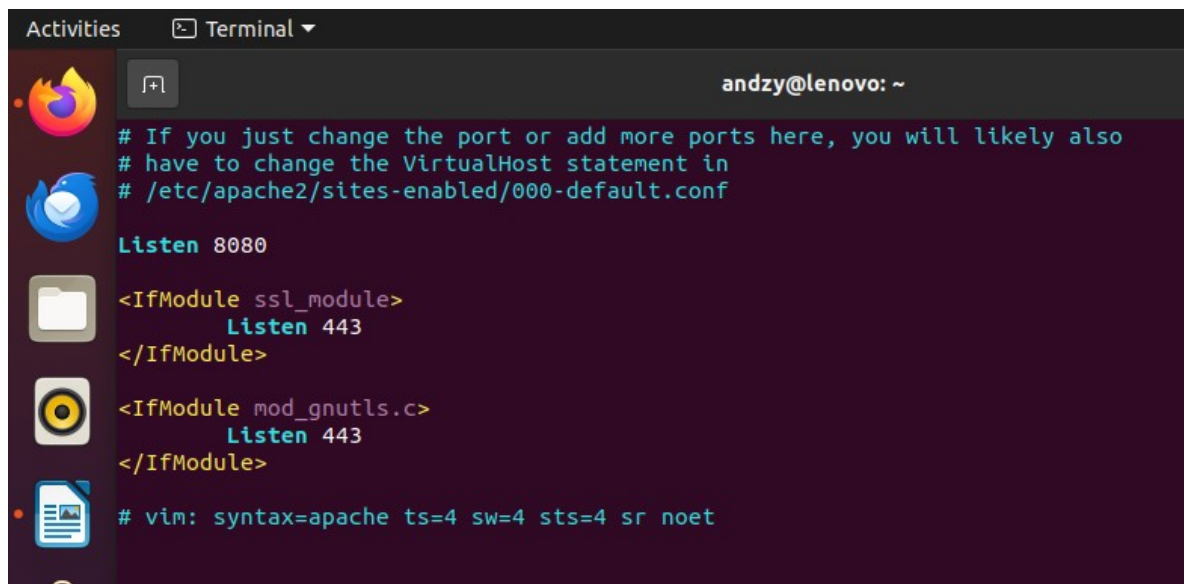
8. Проверяем работу сайта в браузере



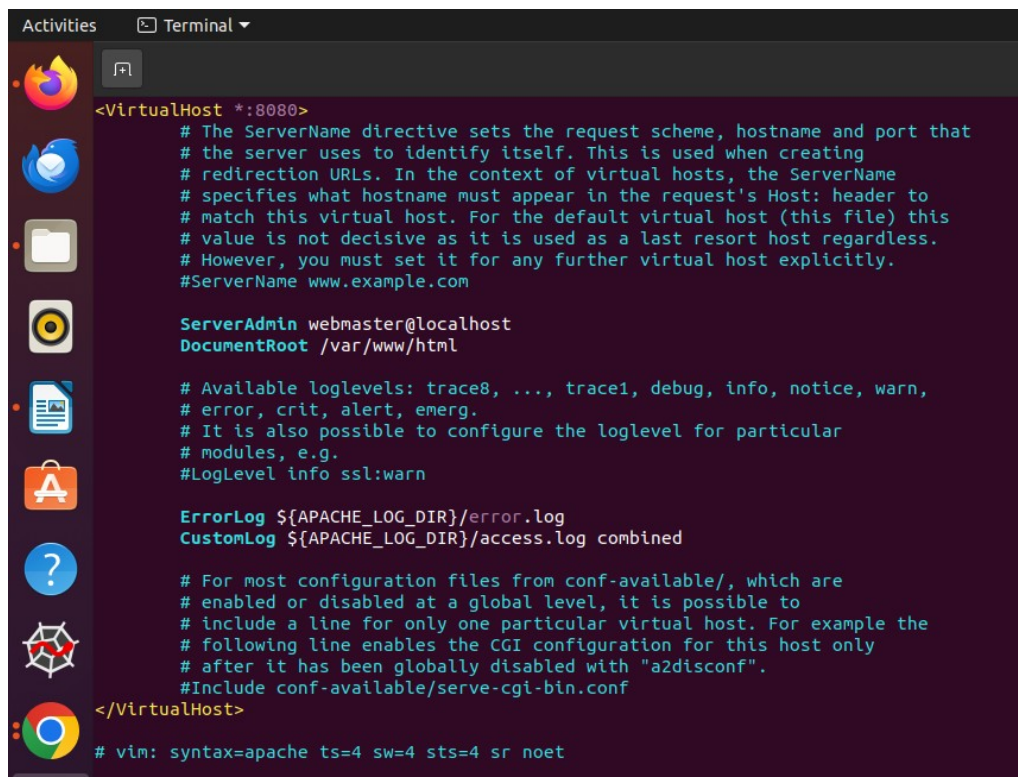
## Задание 2:

1. Настраиваем Apache сервер, устанавливаем порт 8080

```
sudo vim /etc/apache2/ports.conf
```



2. Меняем порт 80 на 8080 в дефолтном файле /etc/apache2/sites-enabled/000-default.conf  
**sudo vim /etc/apache2/sites-enabled/000-default.conf**



```
<VirtualHost *:8080>
# The ServerName directive sets the request scheme, hostname and port that
# the server uses to identify itself. This is used when creating
# redirection URLs. In the context of virtual hosts, the ServerName
# specifies what hostname must appear in the request's Host: header to
# match this virtual host. For the default virtual host (this file) this
# value is not decisive as it is used as a last resort host regardless.
# However, you must set it for any further virtual host explicitly.
#ServerName www.example.com

ServerAdmin webmaster@localhost
DocumentRoot /var/www/html

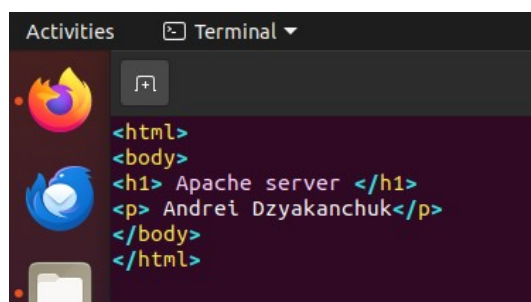
# Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
# error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular
# modules, e.g.
#LogLevel info ssl:warn

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

# For most configuration files from conf-available/, which are
# enabled or disabled at a global level, it is possible to
# include a line for only one particular virtual host. For example the
# following line enables the CGI configuration for this host only
# after it has been globally disabled with "a2disconf".
#Include conf-available/serve-cgi-bin.conf
</VirtualHost>

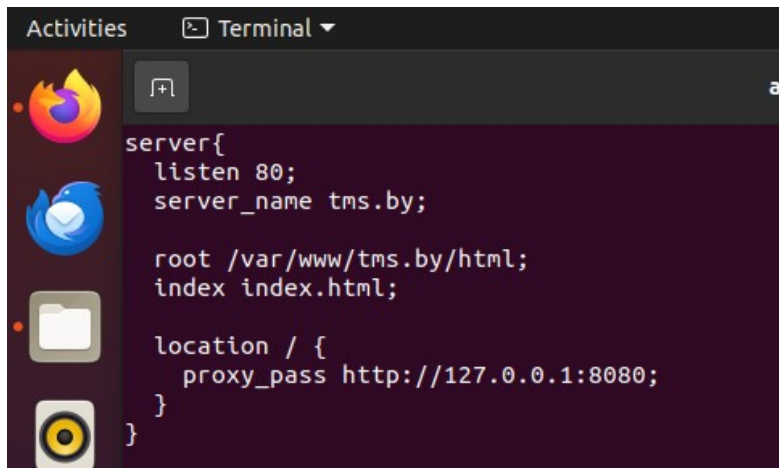
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

3. Символьная синка находится в  
**/etc/apache2/sites-enabled/000-default.conf**
4. Создаем HTML- файл и прописываем его содержимое  
**sudo vim /var/www/html/index.html**



```
<html>
<body>
<h1> Apache server </h1>
<p> Andrei Dzyakanchuk</p>
</body>
</html>
```

5. Перезагружаем сервис Apache  
**sudo systemctl restart apache2**
6. Конфигурируем файл /etc/nginx/sites-available/tms.by  
**sudo vim /etc/nginx/sites-available/tms.by**

A terminal window with a dark purple background. The title bar shows 'Activities' and 'Terminal'. On the left, there's a sidebar with icons for Firefox, Telegram, a file manager, and a terminal. The main area displays Nginx configuration code in a light-colored font.

```
server{
    listen 80;
    server_name tms.by;

    root /var/www/tms.by/html;
    index index.html;

    location / {
        proxy_pass http://127.0.0.1:8080;
    }
}
```

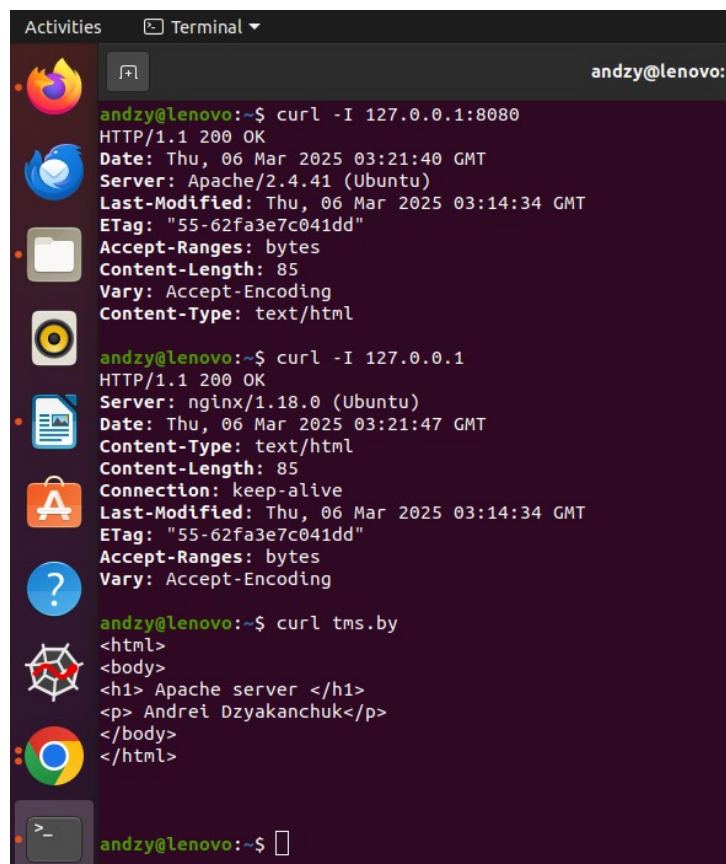
7. Проверяем Nginx на наличие ошибок

**sudo nginx -t**

8. Перезагружаем Nginx

**sudo nginx -s reload**

9. Проверяем работу веб серверов Apache и Nginx

A terminal window with a dark purple background. The title bar shows 'Activities' and 'Terminal'. On the left, there's a sidebar with icons for Firefox, Telegram, a file manager, a terminal, a document, a question mark, a network icon, and Chrome. The main area shows the output of several curl commands in a light-colored font.

```
andzy@lenovo:~$ curl -I 127.0.0.1:8080
HTTP/1.1 200 OK
Date: Thu, 06 Mar 2025 03:21:40 GMT
Server: Apache/2.4.41 (Ubuntu)
Last-Modified: Thu, 06 Mar 2025 03:14:34 GMT
ETag: "55-62fa3e7c041dd"
Accept-Ranges: bytes
Content-Length: 85
Vary: Accept-Encoding
Content-Type: text/html

andzy@lenovo:~$ curl -I 127.0.0.1
HTTP/1.1 200 OK
Server: nginx/1.18.0 (Ubuntu)
Date: Thu, 06 Mar 2025 03:21:47 GMT
Content-Type: text/html
Content-Length: 85
Connection: keep-alive
Last-Modified: Thu, 06 Mar 2025 03:14:34 GMT
ETag: "55-62fa3e7c041dd"
Accept-Ranges: bytes
Vary: Accept-Encoding

andzy@lenovo:~$ curl tms.by
<html>
<body>
<h1> Apache server </h1>
<p> Andrei Dzyakanchuk</p>
</body>
</html>

andzy@lenovo:~$
```

10. Зайдем в браузер и введем запрос tms.by

