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телекоммуникаций и информатики**

Практическая работа 8

**по дисциплине
«WEB-технологии»**

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Новосибирск, 2025

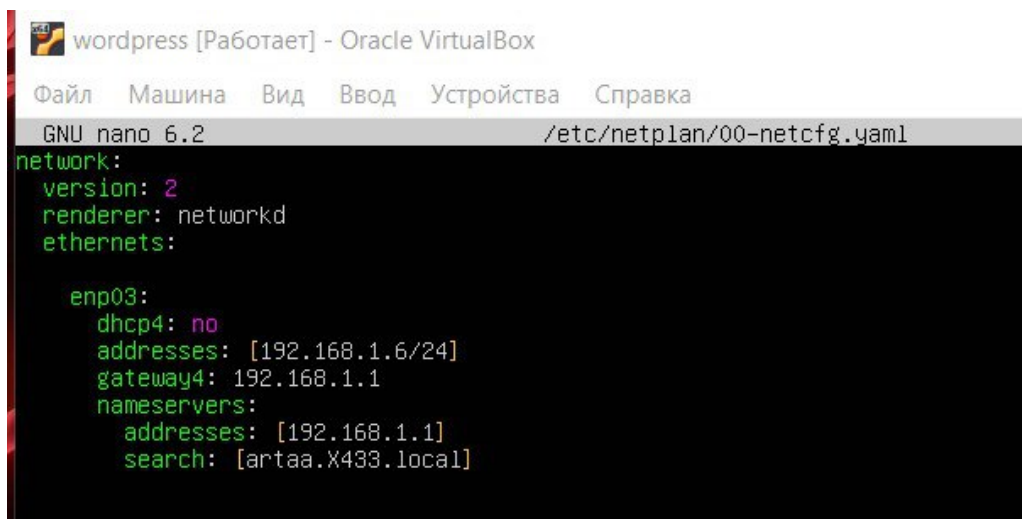
Практическая работа 8

Артаа Эртине Адыгжыевич

23 мая 2025 г.

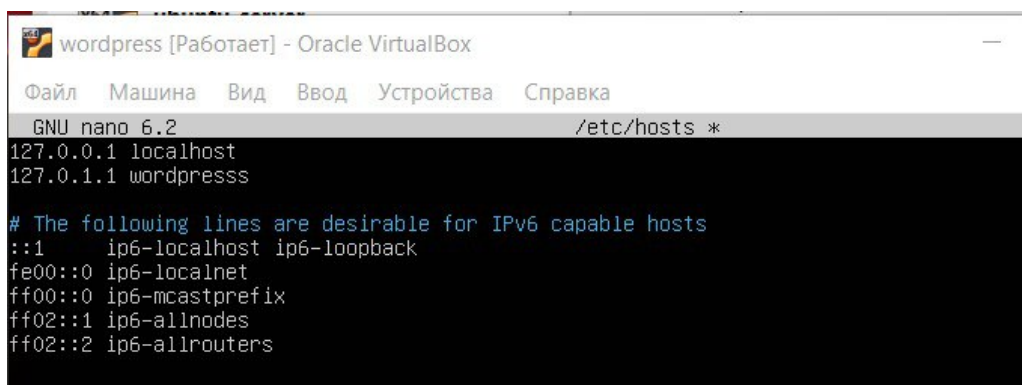
1 Подготовка

1. Клонировать отдельную виртуальную машину Ubuntu Server. (22.04)
2. Настроить статический IP 192.168.N.6.
3. Переименовать виртуальный сервер в wordpress.
4. Добавить прямую и обратную запись в домен.



```
wordpress [Работает] - Oracle VirtualBox
Файл  Машина  Вид  Ввод  Устройства  Справка
GNU nano 6.2 /etc/netplan/00-netcfg.yaml
network:
  version: 2
  renderer: networkd
  ethernets:
    enp03:
      dhcp4: no
      addresses: [192.168.1.6/24]
      gateway4: 192.168.1.1
      nameservers:
        addresses: [192.168.1.1]
        search: [artaa.X433.local]
```

Рис. 1: Настроили статический IP



```
wordpress [Работает] - Oracle VirtualBox
Файл  Машина  Вид  Ввод  Устройства  Справка
GNU nano 6.2 /etc/hosts *
127.0.0.1 localhost
127.0.1.1 wordpresss

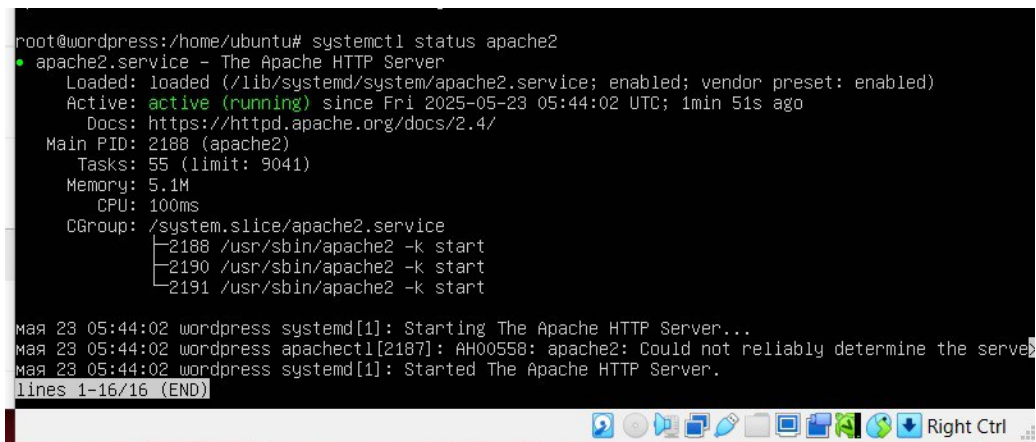
# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

Рис. 2: Переименовывание виртуального сервера в wordpress

2 Устанавливаем LAMP

С помощью команд

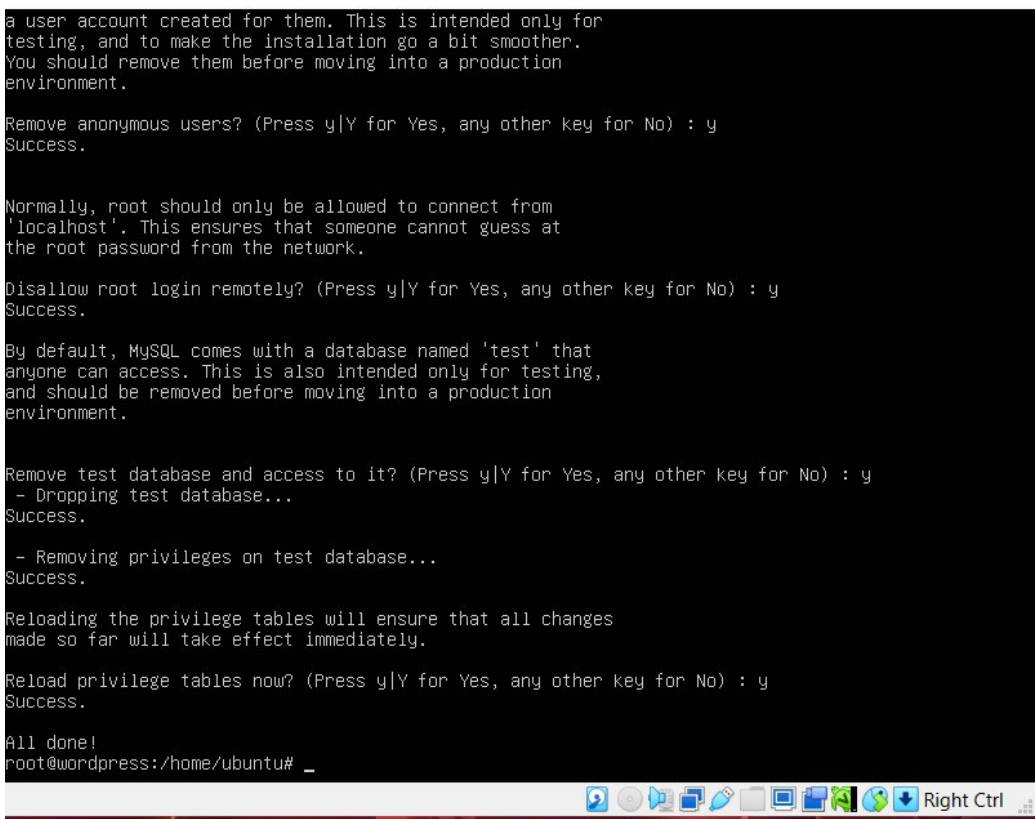
```
apt-get-y install taskel taskel install lamp-server
```



```
root@wordpress:/home/ubuntu# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2025-05-23 05:44:02 UTC; 1min 51s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 2188 (apache2)
     Tasks: 55 (limit: 9041)
    Memory: 5.1M
       CPU: 100ms
    CGroup: /system.slice/apache2.service
           └─2188 /usr/sbin/apache2 -k start
             └─2190 /usr/sbin/apache2 -k start
               └─2191 /usr/sbin/apache2 -k start

мая 23 05:44:02 wordpress systemd[1]: Starting The Apache HTTP Server...
мая 23 05:44:02 wordpress apachectl[2187]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, please add the 'ServerName' line to the configuration file to avoid this message
мая 23 05:44:02 wordpress systemd[1]: Started The Apache HTTP Server.
lines 1-16/16 (END)
```

Рис. 3: Рабочий Apache2



```
a user account created for them. This is intended only for
testing, and to make the installation go a bit smoother.
You should remove them before moving into a production
environment.

Remove anonymous users? (Press y|Y for Yes, any other key for No) : y
Success.

Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : y
Success.

By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.

Remove test database and access to it? (Press y|Y for Yes, any other key for No) : y
- Dropping test database...
Success.

- Removing privileges on test database...
Success.

Reloading the privilege tables will ensure that all changes
made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
Success.

All done!
root@wordpress:/home/ubuntu# _
```

Рис. 4: Создали пользователя

3 Создадим базу данных

```
command 'restart' from deb x11-session-utils (7.7+4build2)
Try: apt install <deb name>
root@wordpress:/var# cd ..
root@wordpress:/# restart apache2.service
Command 'restart' not found, did you mean:
  command 'restart' from deb x11-session-utils (7.7+4build2)
  command 'restartd' from deb restartd (0.2.3-1.1)
Try: apt install <deb name>
root@wordpress:/# systemctl restart apache2.service
root@wordpress:/# cd /var
root@wordpress:/var# chown -R ubuntu:ubuntu www
root@wordpress:/var# chmod -R 755 /var/www
root@wordpress:/var#
```

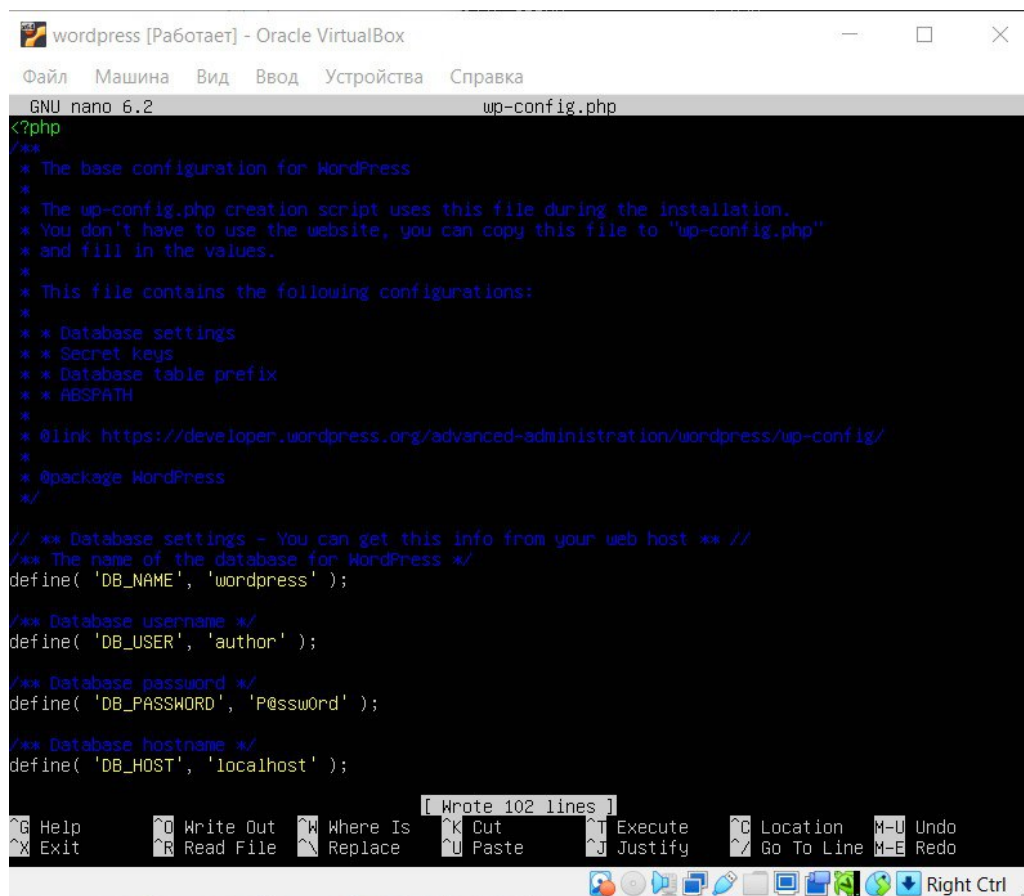
Рис. 5: Enter Caption

```
All done!
root@wordpress:/home/ubuntu# systemctl status mysql
• mysql.service - MySQL Community Server
  Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)
  Active: active (running) since Fri 2025-05-23 05:48:25 UTC; 2min 14s ago
  Process: 3515 ExecStartPre=/usr/share/mysql/mysql-systemd-start pre (code=exited, status=0/SUCCESS)
  Main PID: 3523 (mysqld)
  Status: "Server is operational"
  Tasks: 38 (limit: 9041)
  Memory: 364.8M
  CPU: 10.046s
  CGroup: /system.slice/mysql.service
          └─3523 /usr/sbin/mysqld

мая 23 05:48:23 wordpress systemd[1]: Starting MySQL Community Server...
мая 23 05:48:25 wordpress systemd[1]: Started MySQL Community Server.
lines 1-14/14 (END)
```

Рис. 6: Рабочий сервер

4 Настроим файл конфигурации

A screenshot of a virtual machine window titled "wordpress [Работает] - Oracle VirtualBox". Inside, a terminal window shows the GNU nano 6.2 editor editing the file wp-config.php. The code is a PHP configuration file for WordPress, containing database settings and secret keys. The code is as follows:

```
<?php
/**
 * The base configuration for WordPress
 *
 * The wp-config.php creation script uses this file during the installation.
 * You don't have to use the website, you can copy this file to "wp-config.php"
 * and fill in the values.
 *
 * This file contains the following configurations:
 *
 * * Database settings
 * * Secret keys
 * * Database table prefix
 * * ABSPATH
 *
 * @link https://developer.wordpress.org/advanced-administration/wordpress/wp-config/
 *
 * @package WordPress
 */

// ** Database settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'wordpress' );

/** Database username */
define( 'DB_USER', 'author' );

/** Database password */
define( 'DB_PASSWORD', 'P@ssw0rd' );

/** Database hostname */
define( 'DB_HOST', 'localhost' );
```

The nano editor interface includes a menu bar with options like Help, Write Out, Where Is, Cut, Execute, Location, Undo, Exit, Read File, Replace, Paste, Justify, Go To Line, and Redo. A status bar at the bottom indicates "Wrote 102 lines". The window's taskbar at the bottom shows various system icons and a "Right Ctrl" button.

Рис. 7: Enter Caption

5 Начальный экран сайта Wordpress

```
mysql> create database wordpress character set utf8 collate utf8_bin;
Query OK, 1 row affected, 2 warnings (0,03 sec)

mysql> create user 'author'@'localhost' identifier by 'P@ssw0rd';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your
MySQL server version for the right syntax to use near 'identifier by 'P@ssw0rd'' at line 1
mysql> grant all privileges on wordpress.* to author@localhost;
ERROR 1410 (42000): You are not allowed to create a user with GRANT
mysql> create user 'author'@'localhost' identified by 'P@ssw0rd';
Query OK, 0 rows affected (0,03 sec)

mysql> grant all privileges on wordpress.* to author@localhost;
Query OK, 0 rows affected (0,02 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0,01 sec)

mysql> exit
Bye
root@wordpress:/var#
```

Рис. 8: Enter Caption

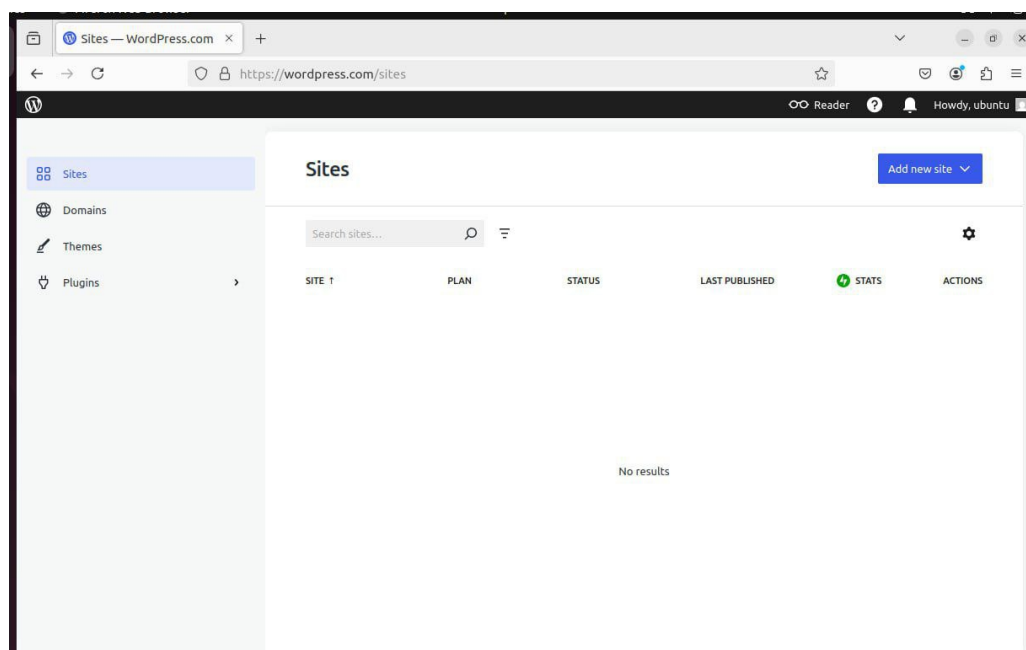


Рис. 9: Enter Caption