# Защита лабораторной работы №6

дисциплина: администрирование сетевых подсистем

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### Постановка задачи

• Приобретение практических навыков по установке и конфигурированию системы управления базами данных на примере программного обеспечения MariaDB.

## Установка MariaDB

```
[root@server.yassine.net my.cnf.d]# systemctl start mariadb
[root@server.yassine.net my.cnf.d]# systemctl enable mariadb
Created symlink /etc/systemd/system/mysql.service → /usr/lib/systemd/system/mari
adb.service.
Created symlink /etc/systemd/system/mysqld.service → /usr/lib/systemd/system/mar
iadb.service.
Created symlink /etc/systemd/system/multi-user.target.wants/mariadb.service → /u
sr/lib/systemd/system/mariadb.service.
[root@server.yassine.net my.cnf.d]#
```

### Конфигурация кодировки символов

```
[root@server.yassine.net my.cnf.d]# mysql -u root -p
Enter password:
                         MariaDB [(none)]> status
Welcome to the
Your MariaDB co
                         mysql Ver 15.1 Distrib 10.5.16-MariaDB, for Linux (x86 64) using EditLine wrap
Server version:
Copyright (c) 2 Connection id:
                                                                                                others.
                                             14
                         Current database:
                                             root@localhost
                         Current user:
Type 'help;' or
                                                                                              t input statement.
                                             Not in use
                         SSL:
                         Current pager:
                                             stdout
                         Using outfile:
                         Using delimiter:
                         Server:
                                             MariaDB
                         Server version:
                                             10.5.16-MariaDB MariaDB Server
                         Protocol version:
                                             Localhost via UNIX socket
                         Connection:
                         Server characterset:
                                             latin1
                               characterset:
                                             latin1
                         Client characterset:
                                             utf8
                         Conn. characterset:
                                             utf8
                                             /var/lib/mysql/mysql.sock
                         UNIX socket:
                         Uptime:
                                             9 min 24 sec
                         Threads: 1 Questions: 28 Slow queries: 0 Opens: 20 Open tables: 13 Queries
                         per second avg: 0.049
```

# Создание базы данных

```
MariaDB [addressbook]> INSERT INTO city(name,city) VALUES ('Ivanov','Moscow');
Query OK, 1 row affected (0.240 sec)

MariaDB [addressbook]> INSERT INTO city(name,city) VALUES ('Petrov','Sochi');
Query OK, 1 row affected (0.002 sec)

MariaDB [addressbook]> INSERT INTO city(name,city) VALUES ('Cidrov','Dobna');
Query OK, 1 row affected (0.002 sec)

MariaDB [addressbook]>
```

```
MariaDB [(none)]> CREATE DATABASE addressbook CHARACTER SET utf8 COLLATE utf8 general ci;
Query OK, 1 row affected (0.000 sec)
MariaDB [(none)]>
```

# Создание базы данных

```
[root@server.yassine.net ~]# mysqlshow -u root -p
Enter password:
+-----+
| Databases |
+----+
| addressbook |
| information_schema |
| mysql |
| performance_schema |
+-----+
[root@server.yassine.net ~]#
```

#### Резервные копии

```
[root@server.yassine.net ~]# mysqldump -u root -p addressbook > /var/backup/addressbook.sql
 Enter password:
 [root@server.yassine.net ~]#
[root@server.yassine.net ~]# mysql -u root -p addressbook < /var/backup/addressbook.sql
Enter password:
[root@server.yassine.net ~]#
[root@server.yassine.net ~]# zcat /var/backup/addressbook.sql.gz | mysql -u root -p addressbook
Enter password:
[root@server.yassine.net ~]#
Enter password:
 [root@server.yassine.net ~]# mysqldump -u root -p addressbook | gzip > /var/backup/addressbook.sql.gz
 Enter password:
 [root@server.yassine.net ~]#
```

# Внесение изменений в настройки внутреннего окружения виртуальной машины

```
root@server:/vagrant/provision/server
           root@server:/vagrant/provision/server
echo "Provisioning script 50"
systemett restart named
dnf -y install mariadb mariadb-server
cp -A /vagrant/provision/server/mysql/etc/* /etc
kdir -p /var/backup
cp -R /vagrant/provision/server/mysql/car/backup/* /var/backup
systematl enable mariadb
system start mariadb
       etho "Securing marradb"
       mysgl secure installation - EDF
mysql u root -p123456 <<EOF
 REATE DATABASE uddreusbook CHARACTER SET utfo COLLATE utf8 general cl;
mysql -u root -p123456 addressbook < /var/backup/addressbook.sql
  INSERT --
```

```
[root@server.yassine.net -]# cd /vagrant/provision/server
[root@server.yassine.net server]# ls
| httpd://docume.com/server/mysql/etc/my.cnf.d
| root@server.yassine.net server]# mkdir -p /vagrant/provision/server/mysql/etc/my.cnf.d
| root@server.yassine.net server]# mkdir -p /vagrant/provision/server/mysql/var/backup
| root@server.yassine.net server]# cp -R /etc/my.cnf.d/utf8.cnf /vagrant/provision/server/mysql/etc/my.cnf.d/
| root@server.yassine.net server]# cp -R /var/backup/* /vagrant/provision/server/mysql/var/backup/
| root@server.yassine.net server]# cp -R /var/backup/* /vagrant/provision/server/mysql/var/backup/
```

### Вывод

• Приобрел практические навыки по установке и конфигурированию системы управления базами данных на примере программного обеспечения MariaDB.